Appendix B.14

LTE Band 41

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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	25.5	28.11	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	25.57	28.18	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	25.57	28.18	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	24.62	27.23	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	26.07	28.68	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.45	28.06	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	25.65	28.26	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	24.52	27.13	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	25.88	28.49	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	25.47	28.08	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	25.29	27.9	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.53	27.14	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	24.99	27.6	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	24.92	27.53	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	24.87	27.48	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	23.54	26.15	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	24.73	27.34	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.66	27.27	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.77	27.38	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.44	26.05	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	24.78	27.39	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.77	27.38	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	24.54	27.15	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	23.4	26.01	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	23.7	26.31	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	23.56	26.17	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	23.6	26.21	33	PASS

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Band41	5MHz	64QAM	39675	25RB#0	22.63	25.24	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	23.49	26.1	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	23.5	26.11	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	23.36	25.97	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	22.39	25	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	23.23	25.84	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	23.33	25.94	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	23.34	25.95	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	22.48	25.09	33	PASS
Band41	5MHz	256QAM	39675	1RB#0	20.59	23.2	33	PASS
Band41	5MHz	256QAM	39675	1RB#12	20.45	23.06	33	PASS
Band41	5MHz	256QAM	39675	1RB#24	20.52	23.13	33	PASS
Band41	5MHz	256QAM	39675	25RB#0	20.54	23.15	33	PASS
Band41	5MHz	256QAM	40620	1RB#0	20.36	22.97	33	PASS
Band41	5MHz	256QAM	40620	1RB#12	20.53	23.14	33	PASS
Band41	5MHz	256QAM	40620	1RB#24	20.41	23.02	33	PASS
Band41	5MHz	256QAM	40620	25RB#0	20.49	23.1	33	PASS
Band41	5MHz	256QAM	41565	1RB#0	20.48	23.09	33	PASS
Band41	5MHz	256QAM	41565	1RB#12	20.41	23.02	33	PASS
Band41	5MHz	256QAM	41565	1RB#24	20.29	22.9	33	PASS
Band41	5MHz	256QAM	41565	25RB#0	20.47	23.08	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.58	28.19	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.55	28.16	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	25.78	28.39	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	24.84	27.45	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	26.15	28.76	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.49	28.1	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	25.42	28.03	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	24.57	27.18	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.83	28.44	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.35	27.96	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	25.31	27.92	33	PASS

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Band41	10MHz	QPSK	41540	50RB#0	24.26	26.87	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	25.13	27.74	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	25.07	27.68	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	25.06	27.67	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	23.84	26.45	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.79	27.4	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.88	27.49	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	24.76	27.37	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	23.66	26.27	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.67	27.28	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	24.56	27.17	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.5	27.11	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.51	26.12	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	23.69	26.3	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	23.53	26.14	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	23.69	26.3	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	22.7	25.31	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	23.64	26.25	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	23.56	26.17	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	23.54	26.15	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	22.43	25.04	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	23.47	26.08	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	23.48	26.09	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	23.29	25.9	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	22.41	25.02	33	PASS
Band41	10MHz	256QAM	39700	1RB#0	20.46	23.07	33	PASS
Band41	10MHz	256QAM	39700	1RB#24	20.56	23.17	33	PASS
Band41	10MHz	256QAM	39700	1RB#49	20.58	23.19	33	PASS
Band41	10MHz	256QAM	39700	50RB#0	20.72	23.33	33	PASS
Band41	10MHz	256QAM	40620	1RB#0	20.6	23.21	33	PASS
Band41	10MHz	256QAM	40620	1RB#24	20.45	23.06	33	PASS
Band41	10MHz	256QAM	40620	1RB#49	20.33	22.94	33	PASS

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Inspection & Testing Services
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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Band41	10MHz	256QAM	40620	50RB#0	20.62	23.23	33	PASS
Band41	10MHz	256QAM	41540	1RB#0	20.25	22.86	33	PASS
Band41	10MHz	256QAM	41540	1RB#24	20.28	22.89	33	PASS
Band41	10MHz	256QAM	41540	1RB#49	20.27	22.88	33	PASS
Band41	10MHz	256QAM	41540	50RB#0	20.58	23.19	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	25.58	28.19	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.64	28.25	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.52	28.13	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.72	27.33	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	26.12	28.73	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.55	28.16	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	25.44	28.05	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.48	27.09	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	25.87	28.48	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	25.38	27.99	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.47	28.08	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	24.34	26.95	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	24.94	27.55	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	24.99	27.6	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	25.07	27.68	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	23.84	26.45	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.7	27.31	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.79	27.4	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.82	27.43	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	23.57	26.18	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.47	27.08	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	24.56	27.17	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	24.62	27.23	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.33	25.94	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	23.55	26.16	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	23.71	26.32	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	23.77	26.38	33	PASS

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Band41	15MHz	64QAM	39725	75RB#0	22.71	25.32	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	23.61	26.22	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	23.37	25.98	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	23.39	26	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	22.68	25.29	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	23.3	25.91	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	23.34	25.95	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	23.27	25.88	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	22.44	25.05	33	PASS
Band41	15MHz	256QAM	39725	1RB#0	20.66	23.27	33	PASS
Band41	15MHz	256QAM	39725	1RB#38	20.55	23.16	33	PASS
Band41	15MHz	256QAM	39725	1RB#74	20.65	23.26	33	PASS
Band41	15MHz	256QAM	39725	75RB#0	20.56	23.17	33	PASS
Band41	15MHz	256QAM	40620	1RB#0	20.35	22.96	33	PASS
Band41	15MHz	256QAM	40620	1RB#38	20.39	23	33	PASS
Band41	15MHz	256QAM	40620	1RB#74	20.56	23.17	33	PASS
Band41	15MHz	256QAM	40620	75RB#0	20.45	23.06	33	PASS
Band41	15MHz	256QAM	41515	1RB#0	20.34	22.95	33	PASS
Band41	15MHz	256QAM	41515	1RB#38	20.34	22.95	33	PASS
Band41	15MHz	256QAM	41515	1RB#74	20.41	23.02	33	PASS
Band41	15MHz	256QAM	41515	75RB#0	20.36	22.97	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.48	28.09	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.6	28.21	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.7	28.31	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	24.7	27.31	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	26.15	28.76	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.48	28.09	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	25.42	28.03	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	24.35	26.96	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.98	28.59	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.47	28.08	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.33	27.94	33	PASS

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Band41	20MHz	QPSK	41490	100RB#0	24.29	26.9	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	25	27.61	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	25.07	27.68	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	25.01	27.62	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.74	26.35	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.92	27.53	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	24.85	27.46	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.62	27.23	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	23.49	26.1	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.63	27.24	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	24.63	27.24	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	24.49	27.1	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.45	26.06	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	23.62	26.23	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	23.63	26.24	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	23.6	26.21	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	22.69	25.3	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	23.47	26.08	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	23.24	25.85	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	23.42	26.03	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	22.53	25.14	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	23.48	26.09	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	23.34	25.95	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	23.3	25.91	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	22.41	25.02	33	PASS
Band41	20MHz	256QAM	39750	1RB#0	20.54	23.15	33	PASS
Band41	20MHz	256QAM	39750	1RB#49	20.56	23.17	33	PASS
Band41	20MHz	256QAM	39750	1RB#99	20.69	23.3	33	PASS
Band41	20MHz	256QAM	39750	100RB#0	20.78	23.39	33	PASS
Band41	20MHz	256QAM	40620	1RB#0	20.52	23.13	33	PASS
Band41	20MHz	256QAM	40620	1RB#49	20.37	22.98	33	PASS
Band41	20MHz	256QAM	40620	1RB#99	20.47	23.08	33	PASS

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Band41	20MHz	256QAM	40620	100RB#0	20.27	22.88	33	PASS
Band41	20MHz	256QAM	41490	1RB#0	20.38	22.99	33	PASS
Band41	20MHz	256QAM	41490	1RB#49	20.42	23.03	33	PASS
Band41	20MHz	256QAM	41490	1RB#99	20.32	22.93	33	PASS
Band41	20MHz	256QAM	41490	100RB#0	20.36	22.97	33	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	8.50	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.26	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.56	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.54	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.82	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.80	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	9.82	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	10.18	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	9.94	13	PASS
Band41	20MHz	256QAM	39750	100RB#0	10.54	13	PASS
Band41	20MHz	256QAM	40620	100RB#0	10.48	13	PASS
Band41	20MHz	256QAM	41490	100RB#0	10.46	13	PASS

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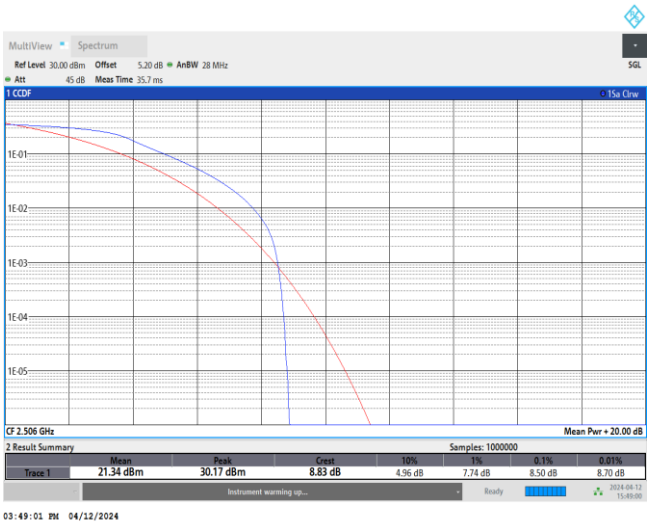
Test Graphs

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


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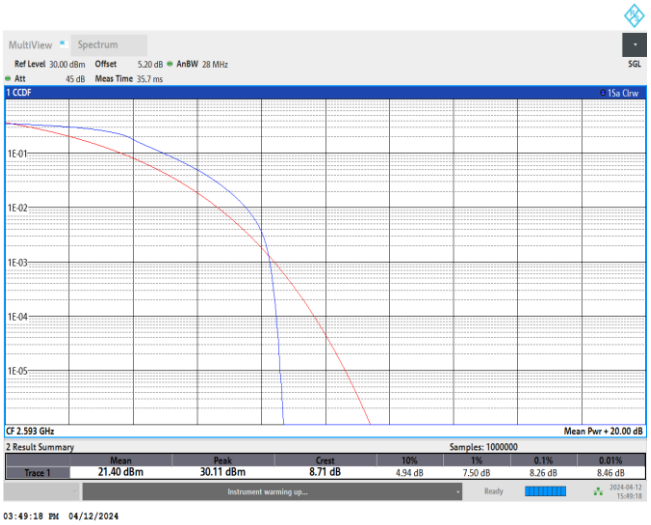

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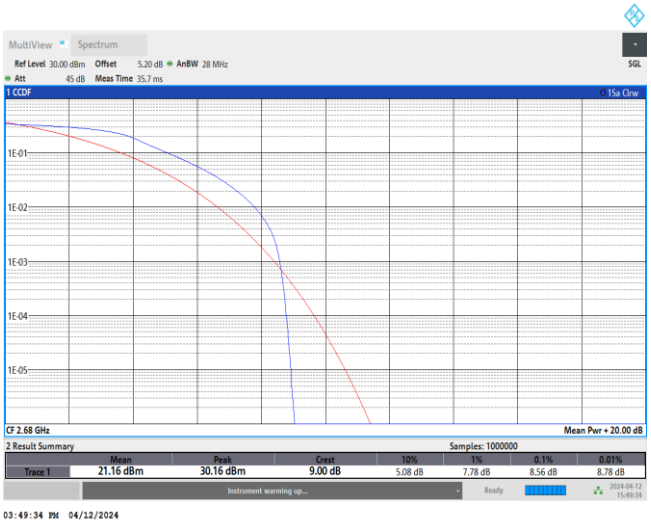
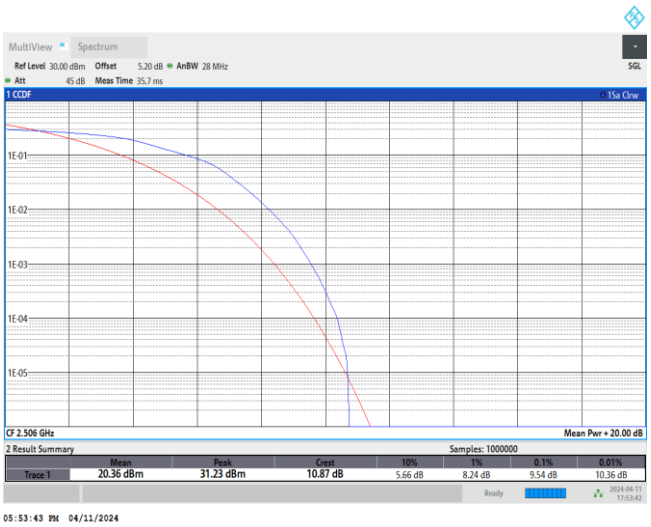
Band41-20MHz-QPSK-41490-100RB#0



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



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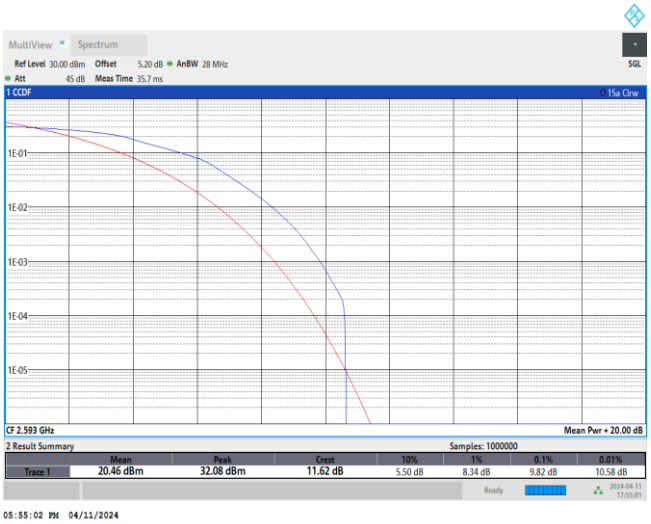
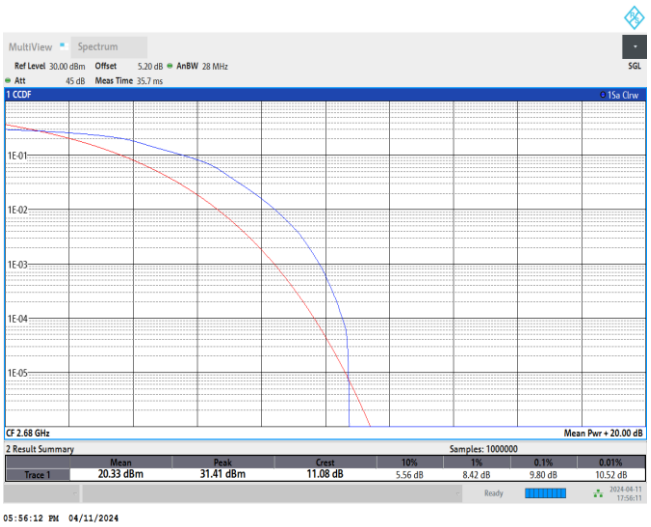
Band41-20MHz-16QAM-40620-100RB#0



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



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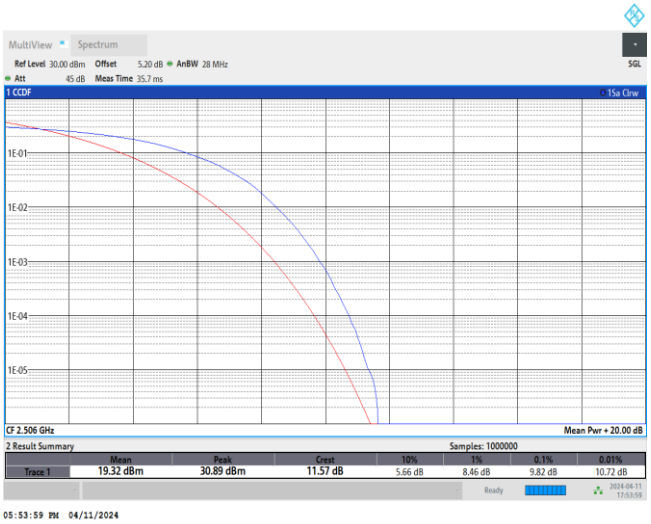
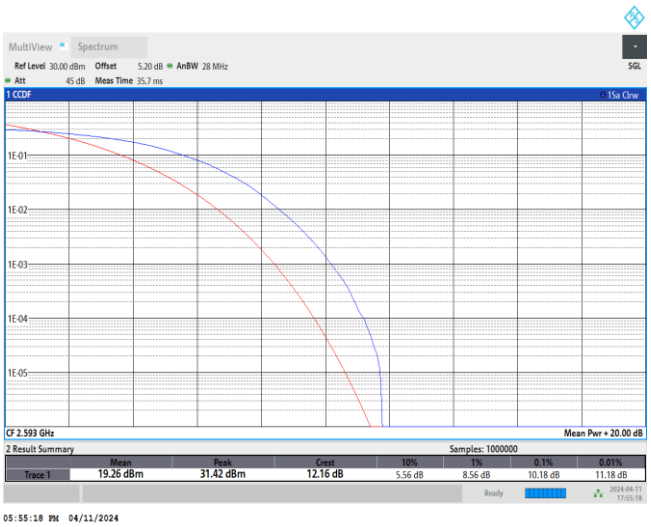
Band41-20MHz-64QAM-39750-100RB#0



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



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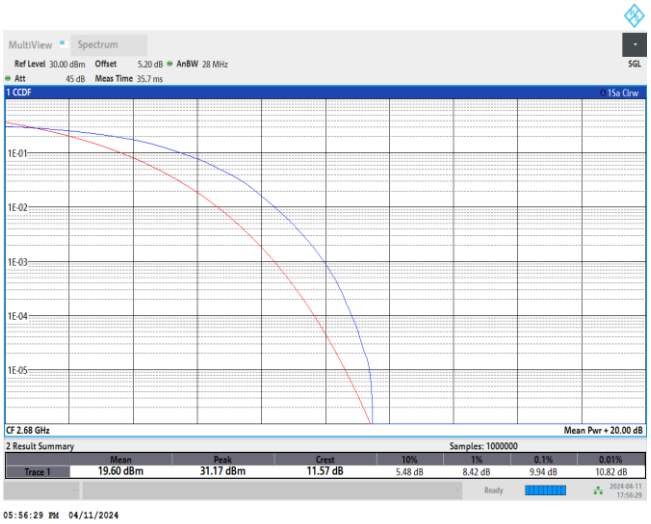
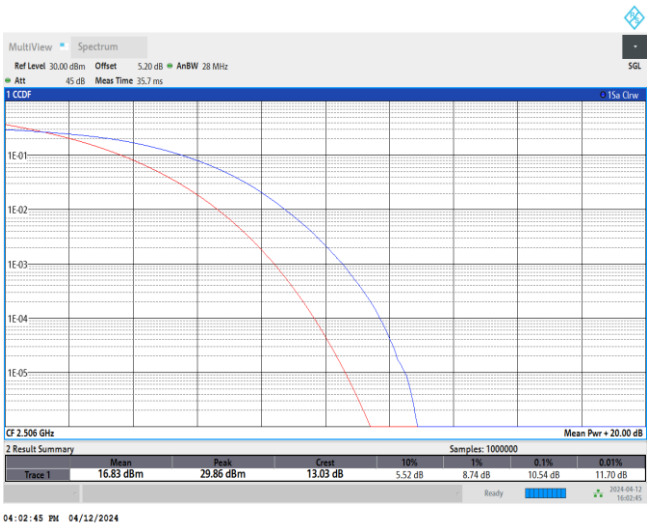
Band41-20MHz-64QAM-41490-100RB#0



Band41-20MHz-256QAM-39750-100RB#0



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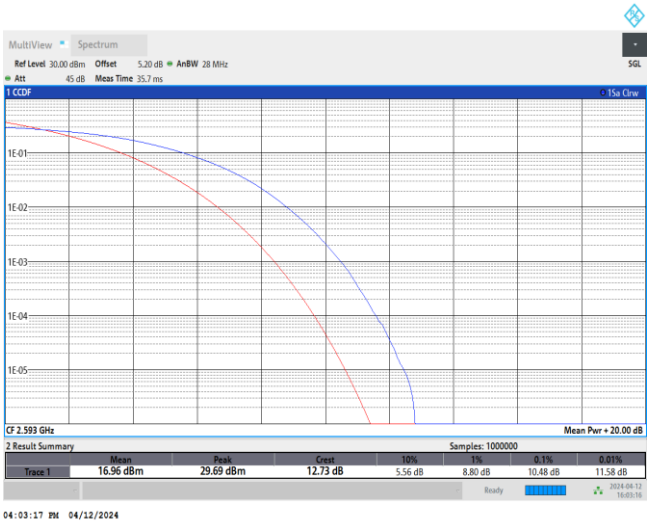
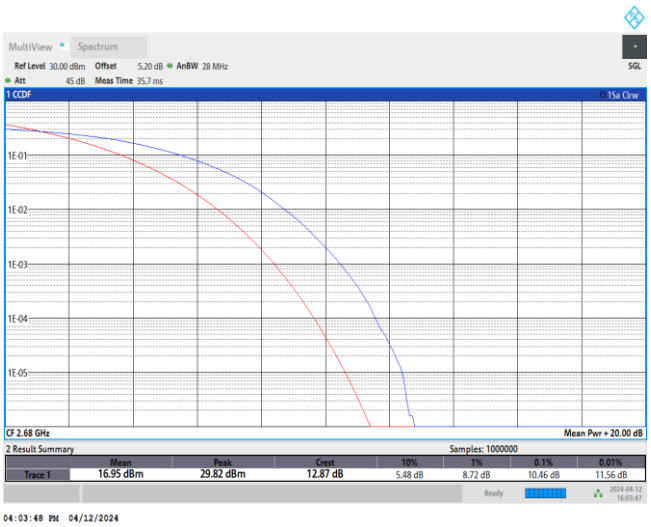
Band41-20MHz-256QAM-40620-100RB#0



Band41-20MHz-256QAM-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	40620	25RB#0	4.492	4.97	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.512	5.01	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.469	5.03	PASS
Band41	5MHz	256QAM	40620	25RB#0	4.469	4.88	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.906	9.60	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.957	9.54	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.917	9.64	PASS
Band41	10MHz	256QAM	40620	50RB#0	8.979	9.62	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.476	14.70	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.427	14.40	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.445	14.58	PASS
Band41	15MHz	256QAM	40620	75RB#0	13.445	14.76	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.931	19.56	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.892	18.96	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.912	18.92	PASS
Band41	20MHz	256QAM	40620	100RB#0	17.892	19.24	PASS

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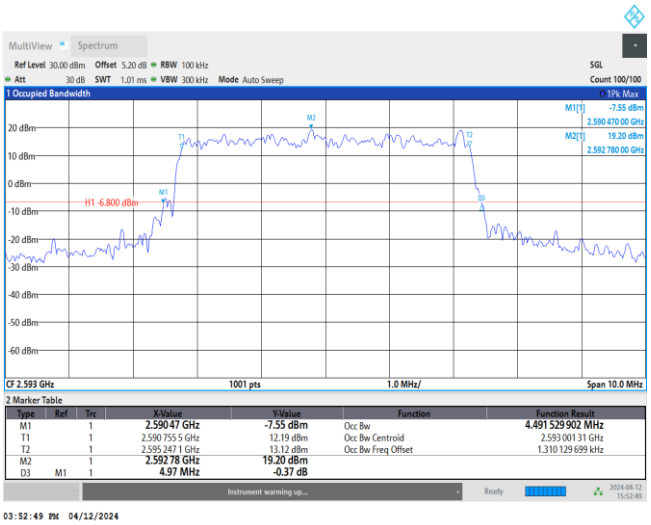
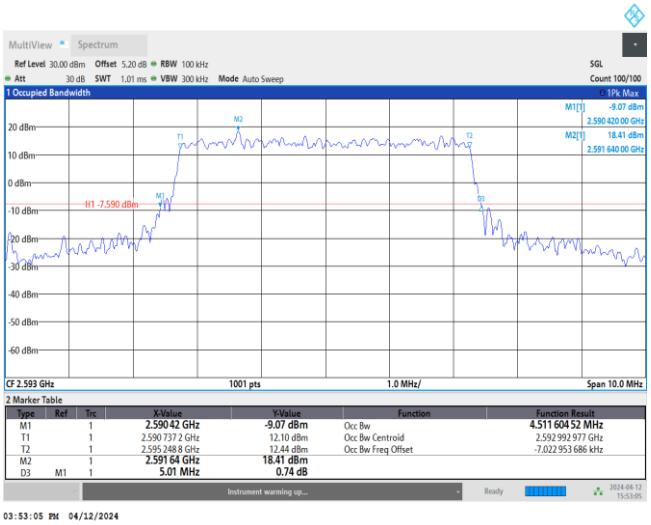
Test Graphs

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



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



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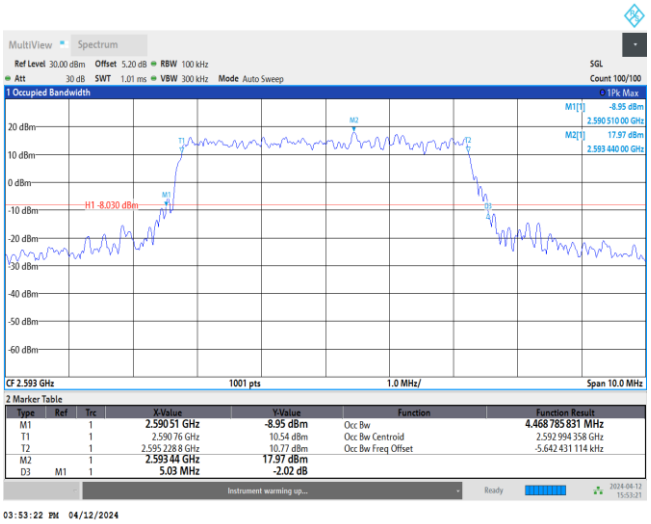
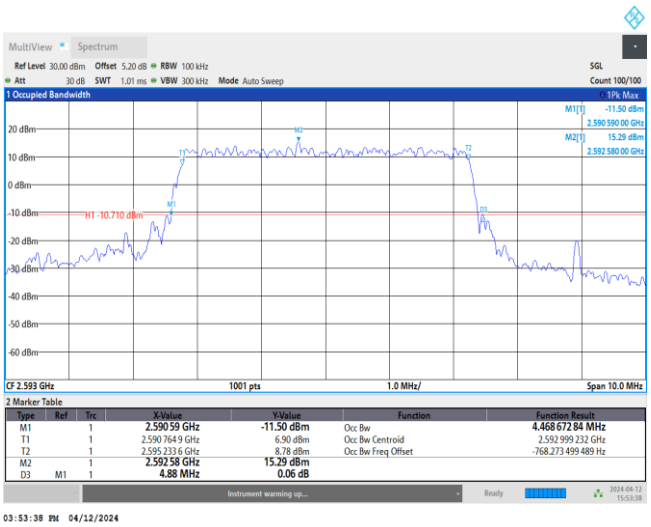
Band41-5MHz-64QAM-40620-25RB#0



Band41-5MHz-256QAM-40620-25RB#0



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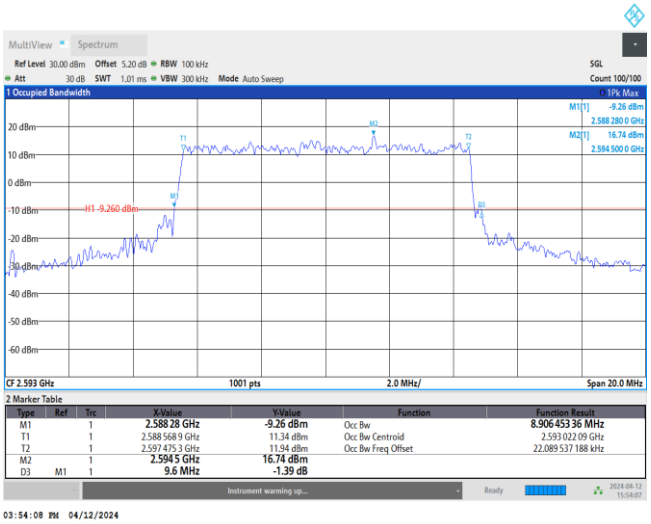
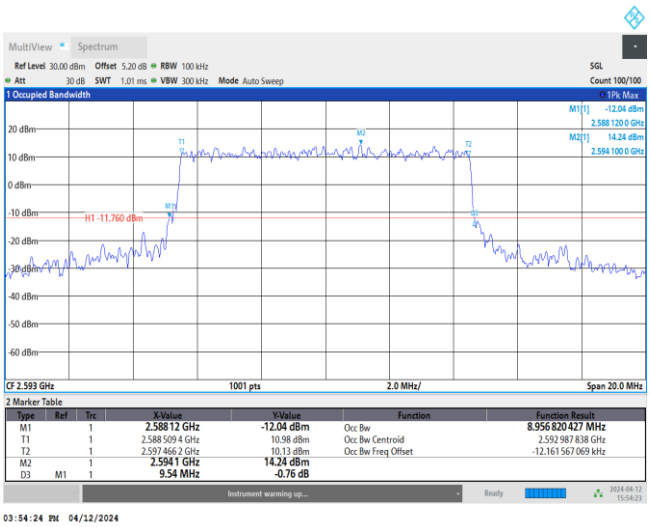
Band41-10MHz-QPSK-40620-50RB#0



Band41-10MHz-16QAM-40620-50RB#0



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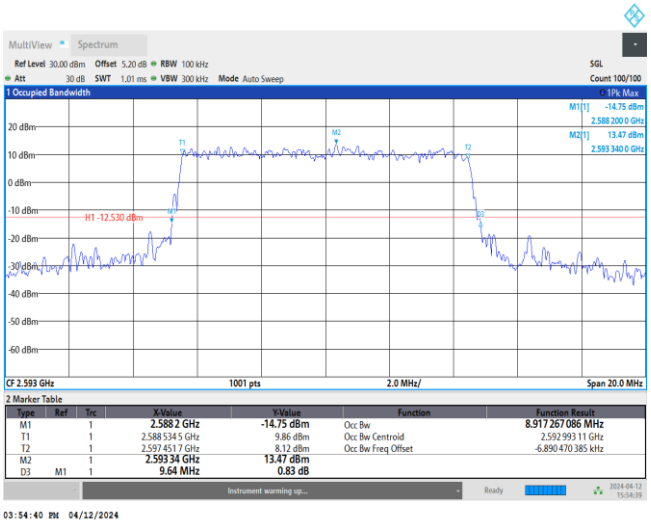
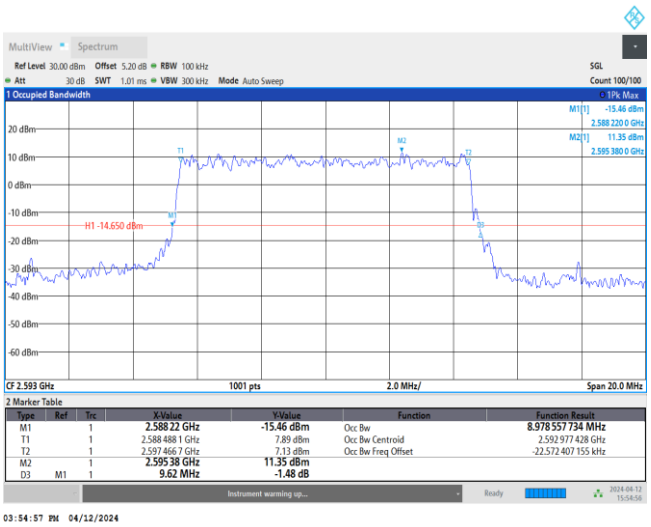
Band41-10MHz-64QAM-40620-50RB#0



Band41-10MHz-256QAM-40620-50RB#0



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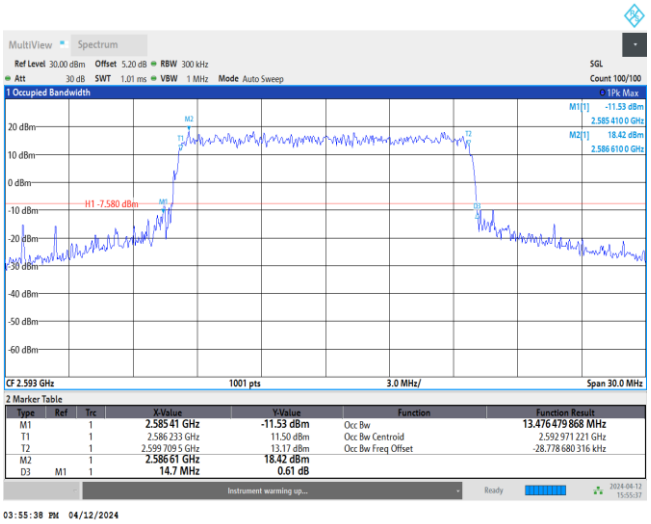
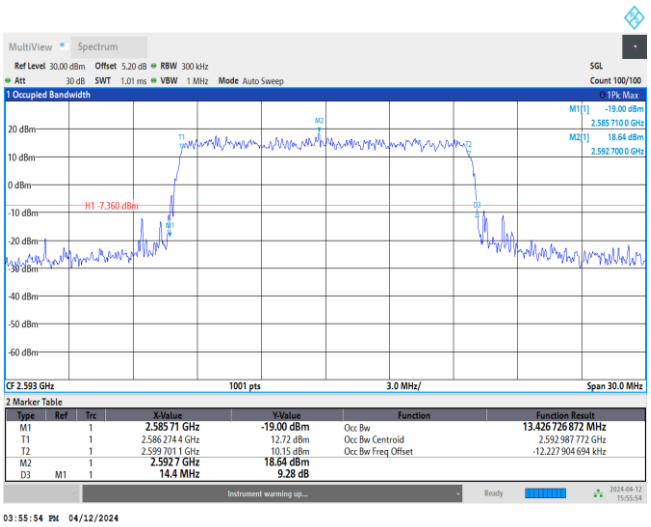
Band41-15MHz-QPSK-40620-75RB#0



Band41-15MHz-16QAM-40620-75RB#0



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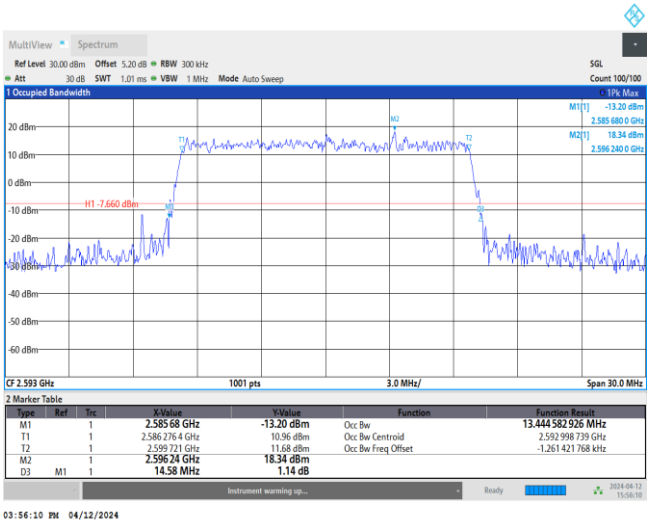
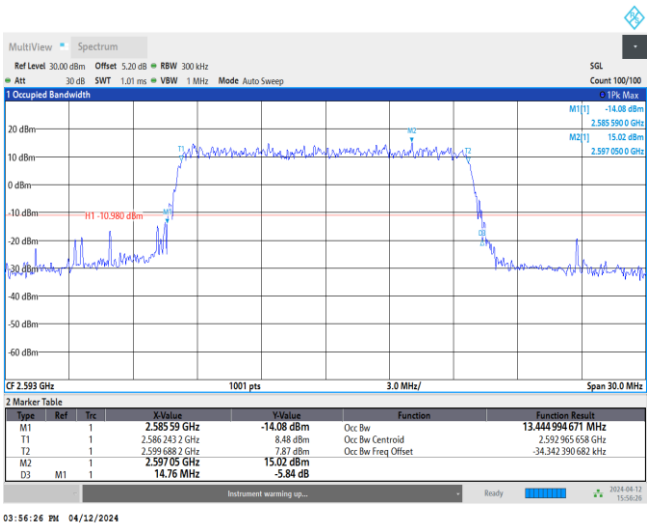
Band41-15MHz-64QAM-40620-75RB#0



Band41-15MHz-256QAM-40620-75RB#0



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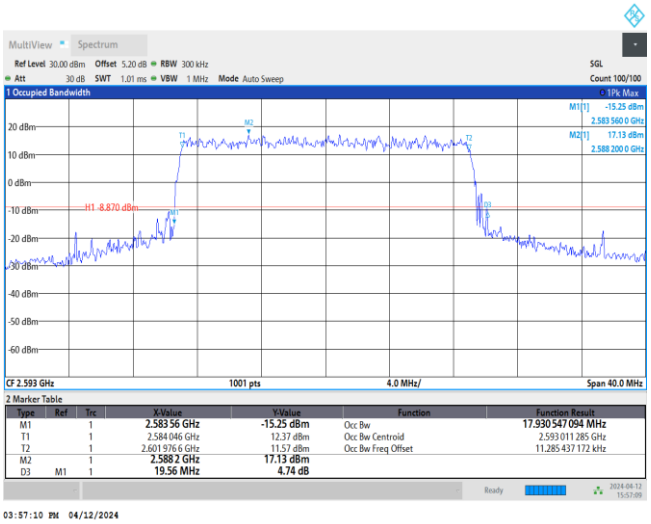
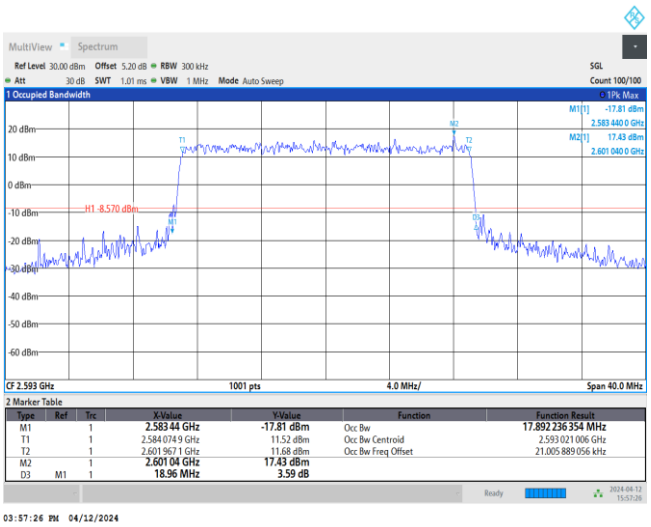
Band41-20MHz-QPSK-40620-100RB#0



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



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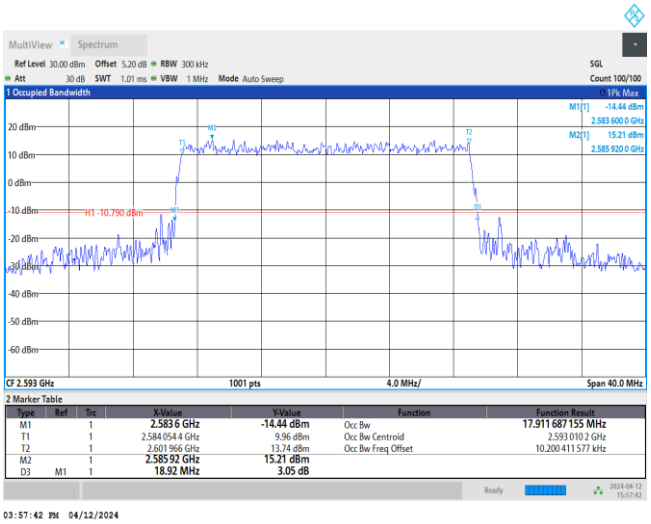
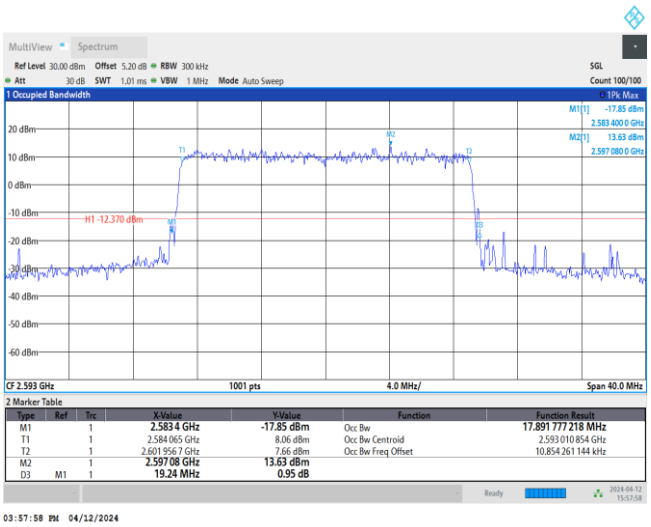
Band41-20MHz-64QAM-40620-100RB#0



Band41-20MHz-256QAM-40620-100RB#0



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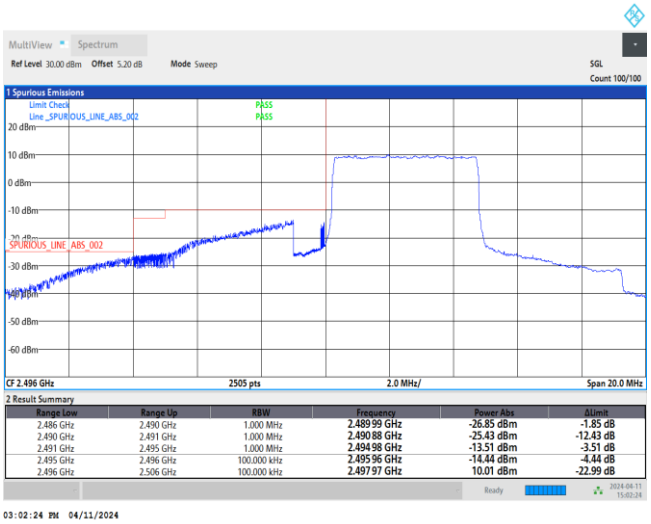
Band Edge

Test Graphs

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

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



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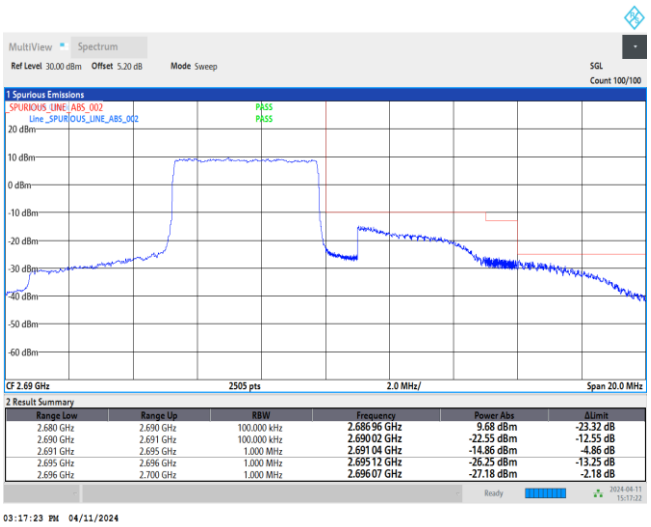
Band41-5MHz-QPSK-41565-25RB#0



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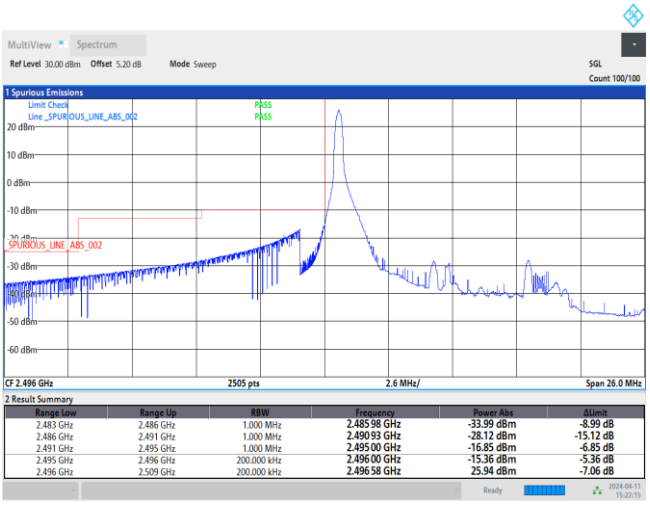
Band41-10MHz-QPSK-39700-1RB#0



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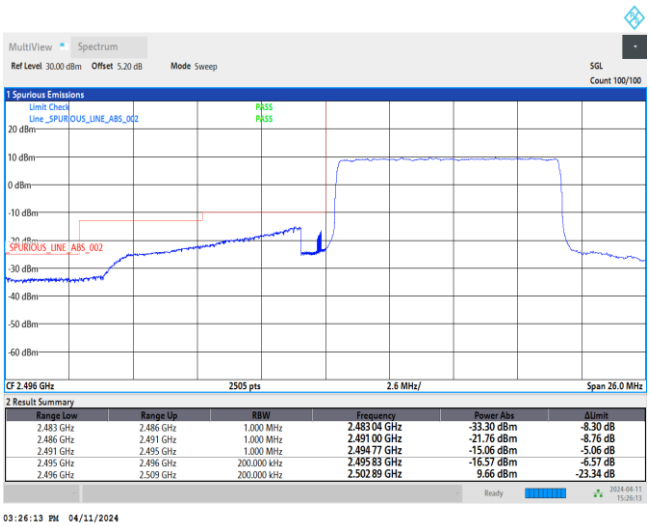

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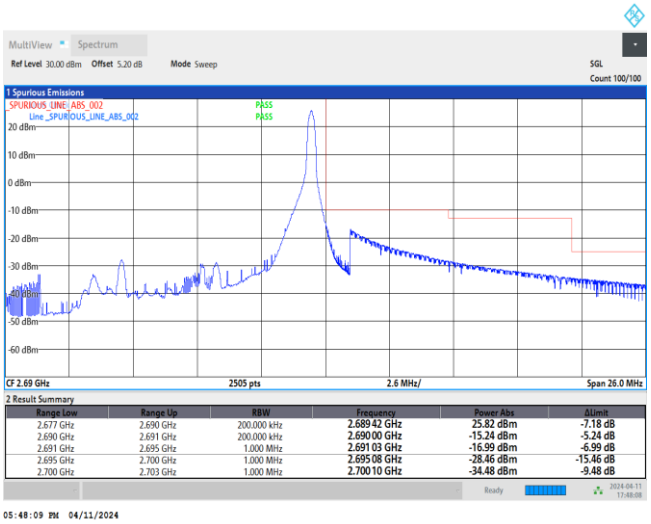
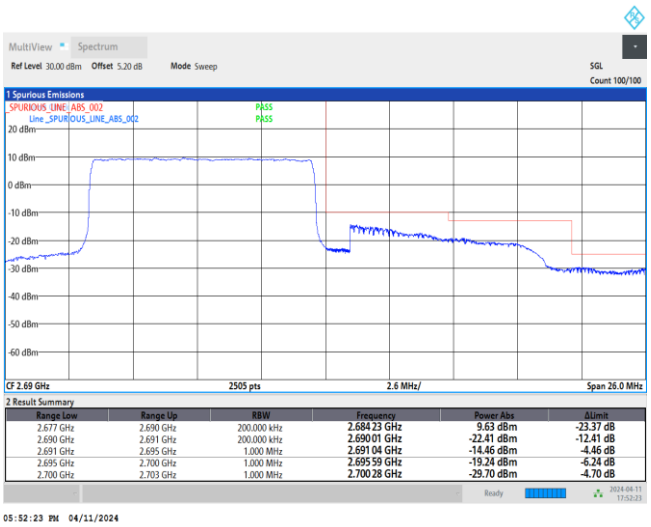
Band41-10MHz-QPSK-41540-1RB#49



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



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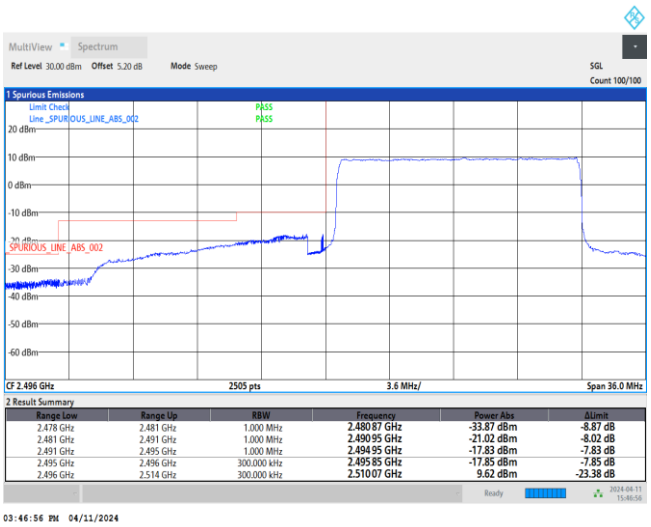
Band41-15MHz-QPSK-39725-1RB#0

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



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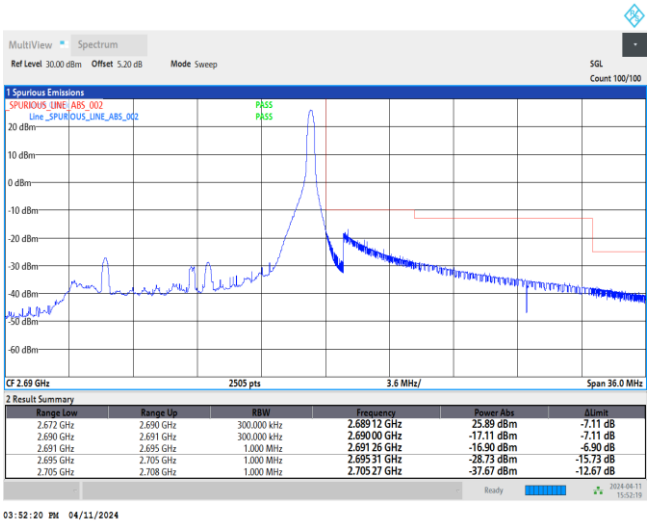
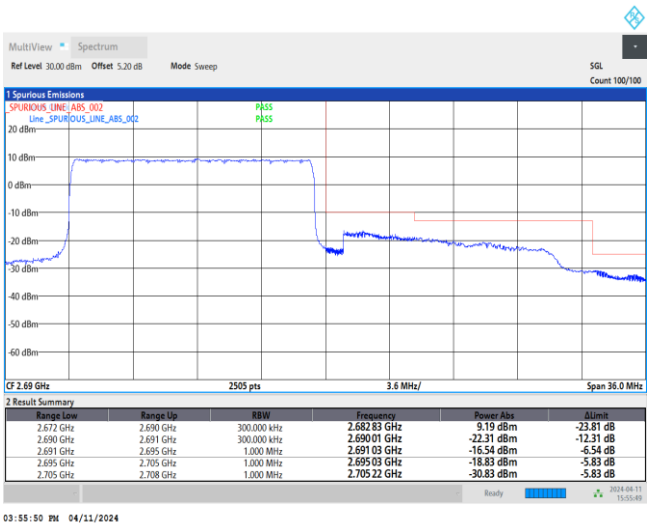
Band41-15MHz-QPSK-41515-1RB#74



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



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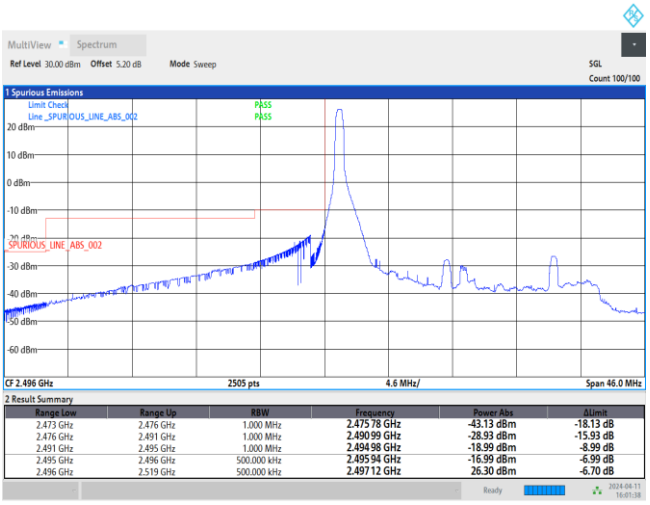
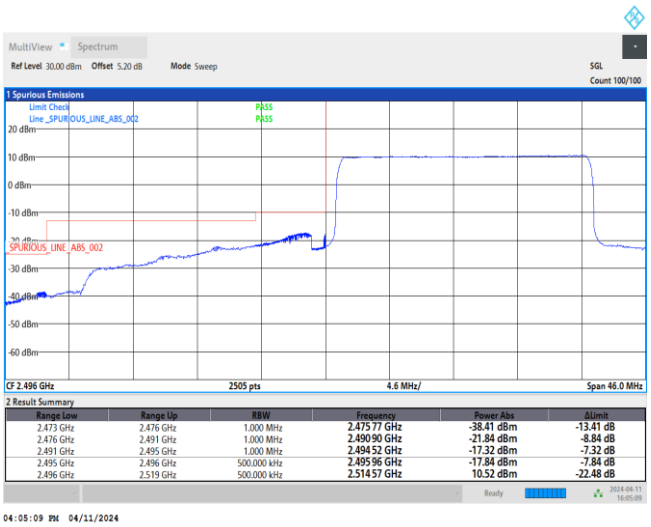
Band41-20MHz-QPSK-39750-1RB#0



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



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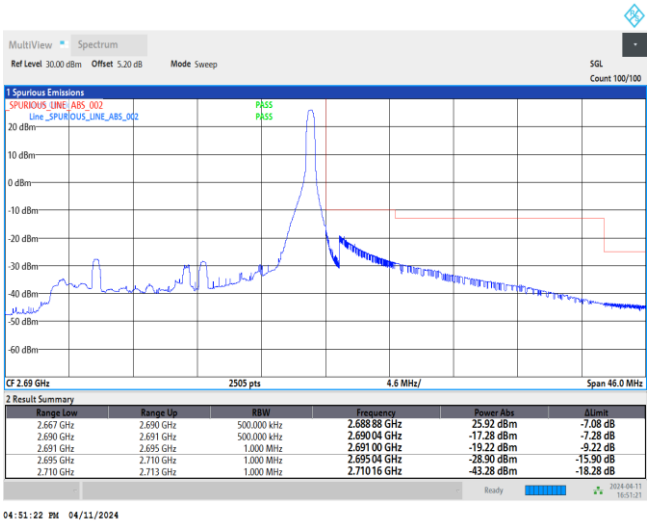
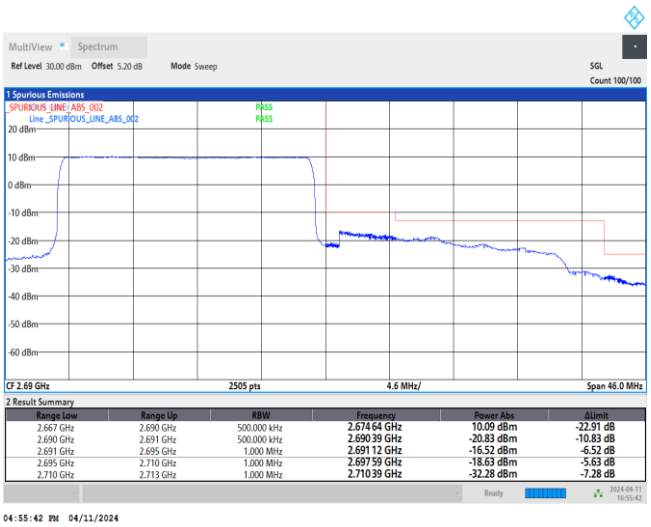
Band41-20MHz-QPSK-41490-1RB#99



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



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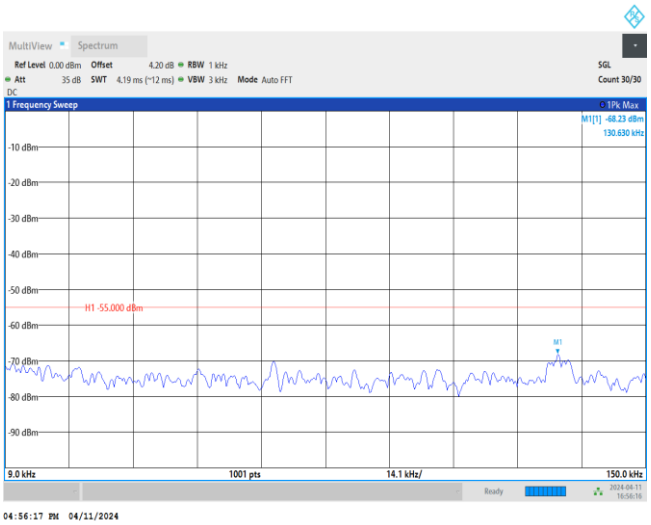
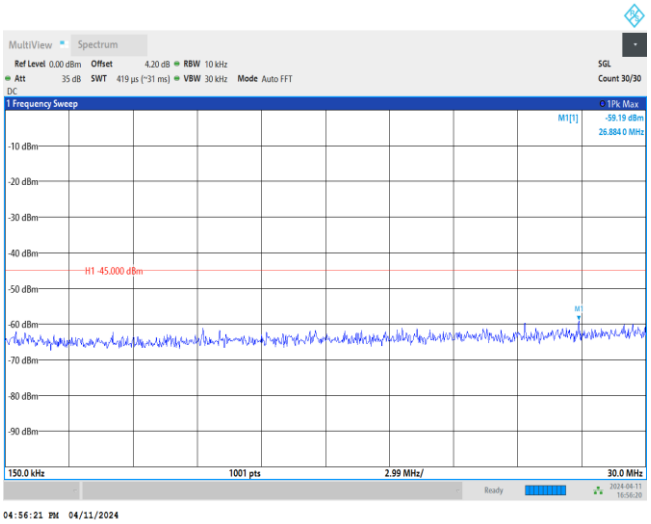
Conducted Spurious Emission

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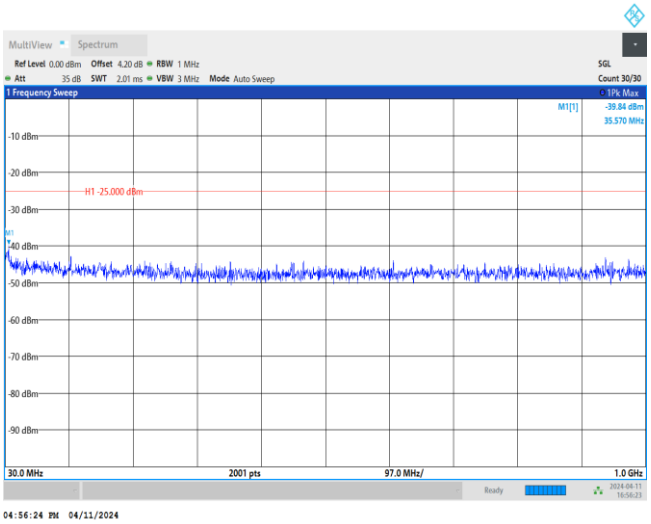
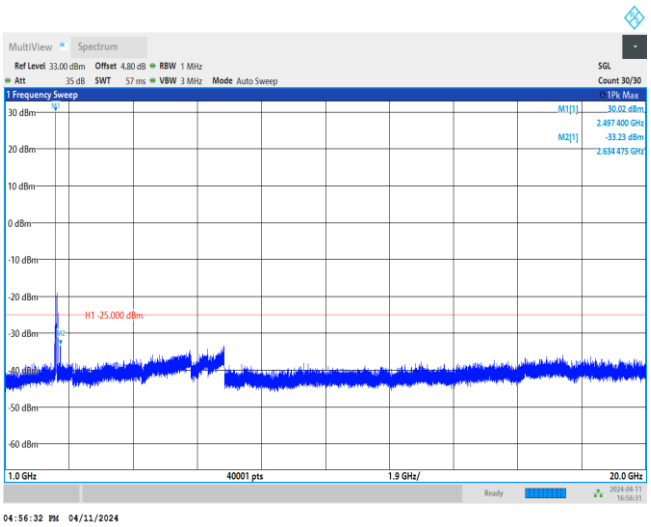
Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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



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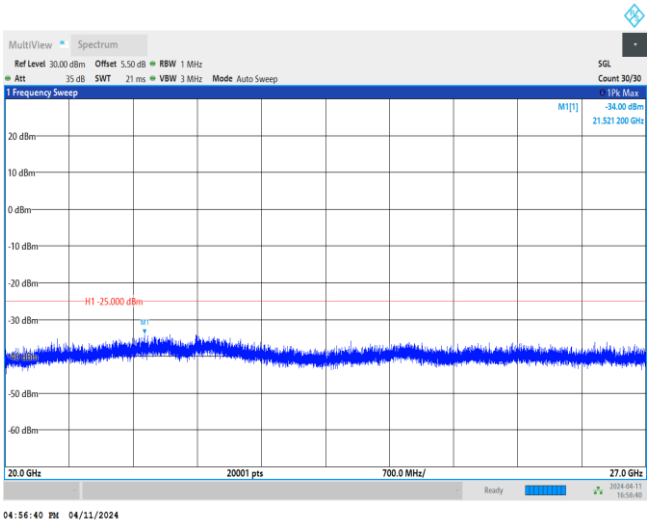
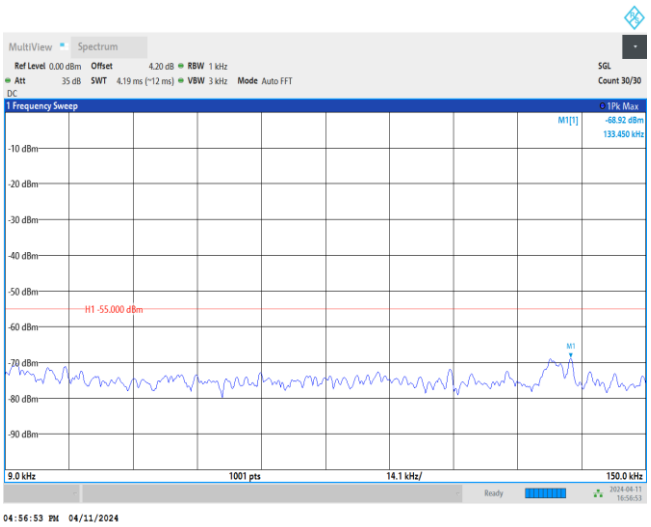
Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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



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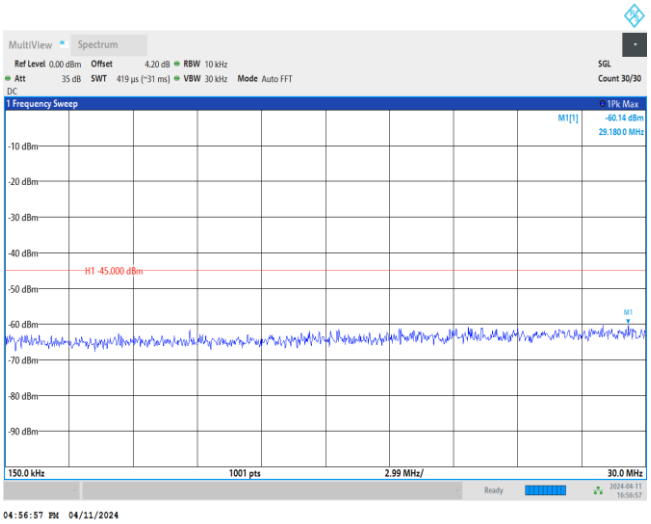
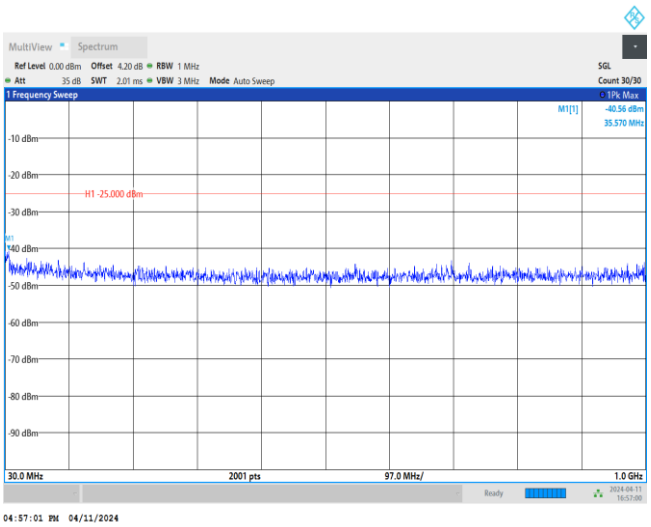
Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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



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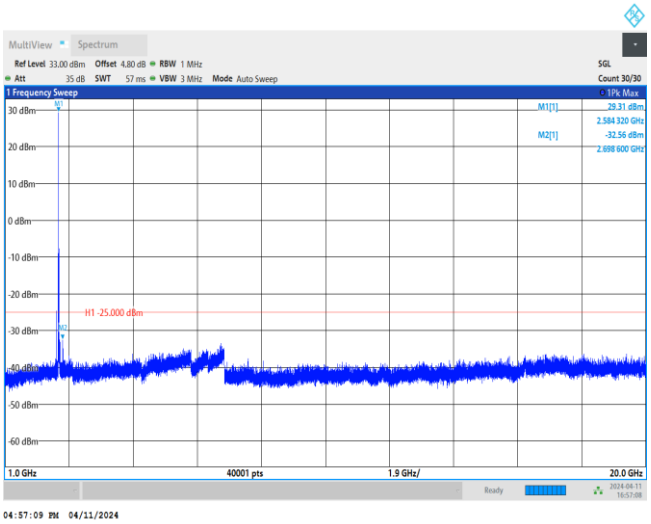
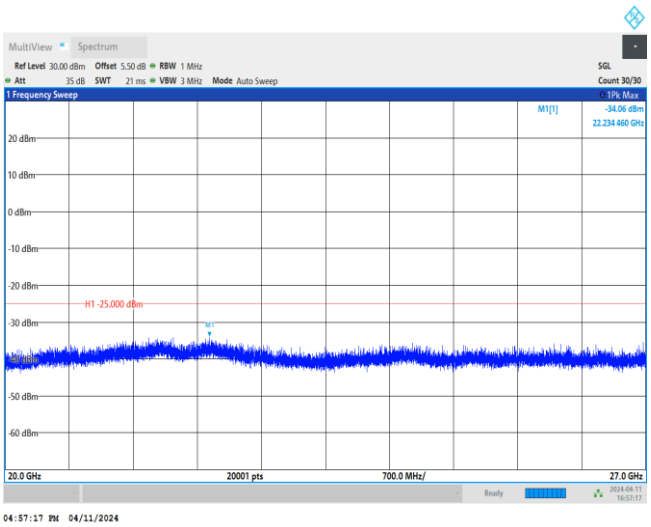
Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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



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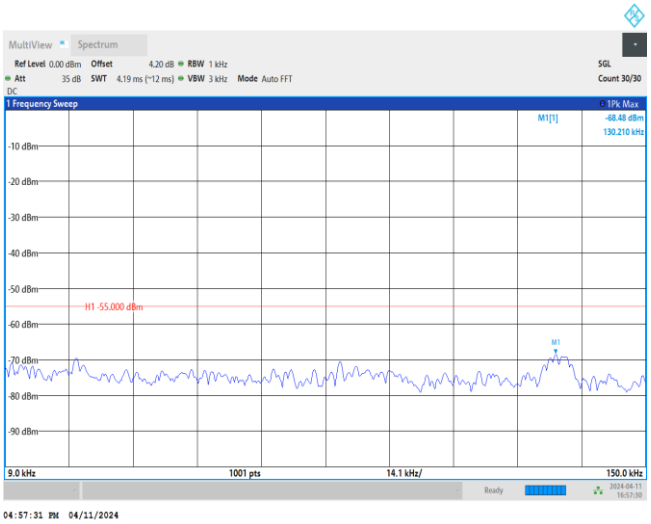
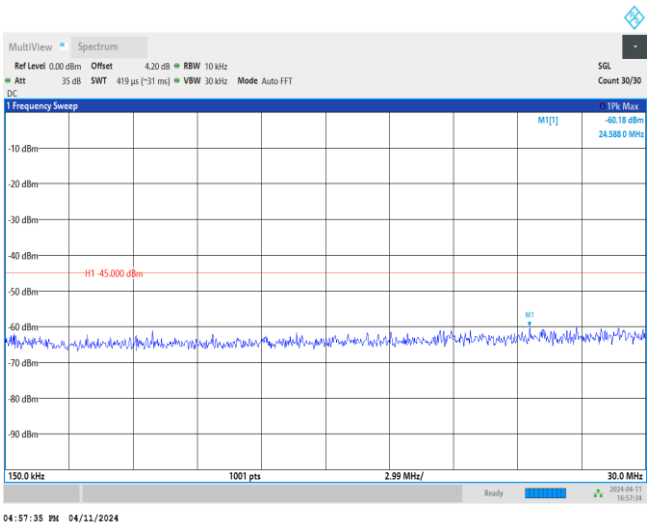
Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



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



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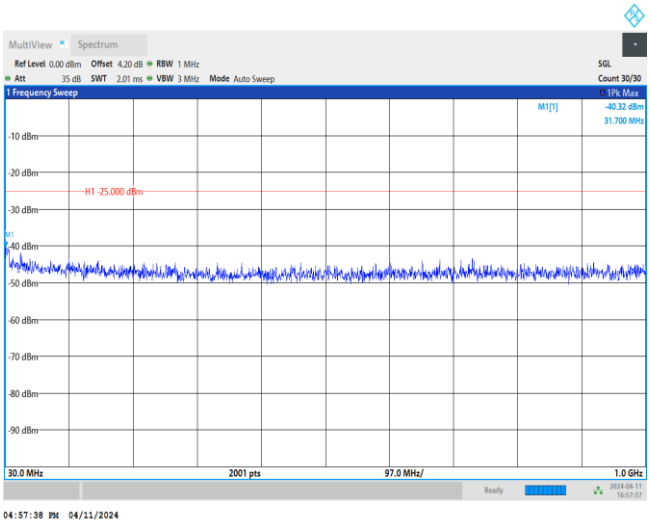
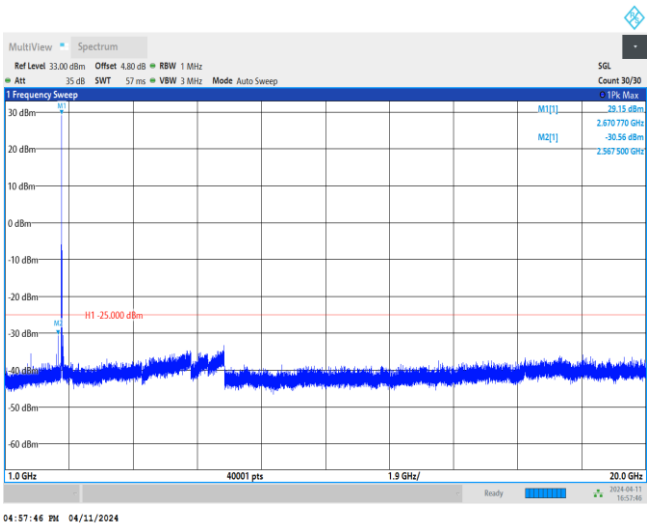
Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



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



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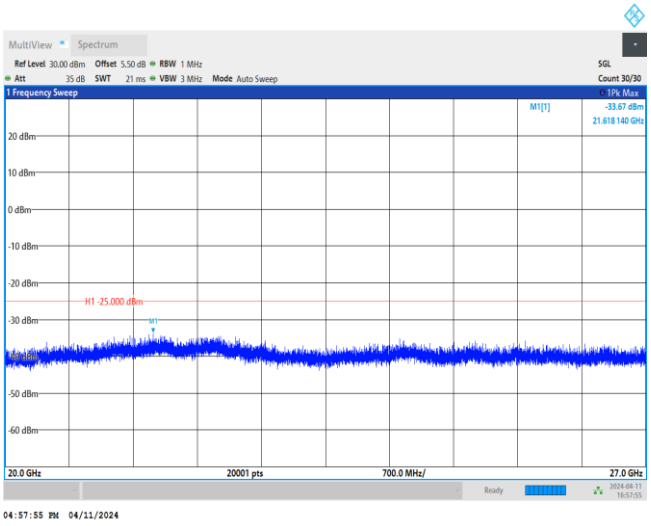
Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_20MHz _ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	66.81	-45.63	32.86	-41.22	-25.00	16.22	263	212	Horizontal
2	7491	49.78	-43.16	36.44	-52.20	-25.00	27.20	195	270	Horizontal
3	9988.3600	50.26	-39.25	38.47	-45.78	-25.00	20.78	148	316	Horizontal
4	12485.4500	35.25	-37.04	39.16	-57.89	-25.00	32.89	276	89	Horizontal
5	14982.5400	33.81	-34.64	39.26	-56.83	-25.00	31.83	132	148	Horizontal
6	17479.6300	33.67	-35.10	39.13	-57.56	-25.00	32.56	159	42	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	4994.1800	70.48	-45.63	32.86	-37.55	-25.00	12.55	136	18	Vertical
2	7491.2700	52.79	-43.16	36.44	-49.19	-25.00	24.19	258	0	Vertical
3	9987.75	52.81	-39.25	38.47	-43.23	-25.00	18.23	306	138	Vertical
4	12485.4500	35.08	-37.04	39.16	-58.06	-25.00	33.06	146	76	Vertical
5	14982.5400	33.93	-34.64	39.26	-56.71	-25.00	31.71	263	331	Vertical
6	17479.6300	33.40	-35.10	39.13	-57.83	-25.00	32.83	187	0	Vertical

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Test Band = LTE Band 41_20MHz _ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.1800	70.39	-45.31	32.97	-37.21	-25.00	12.21	324	225	Horizontal
2	7752.2700	42.02	-42.69	36.69	-59.24	-25.00	34.24	195	0	Horizontal
3	10336.3600	43.64	-39.06	38.84	-51.84	-25.00	26.84	287	8	Horizontal
4	12920.4500	36.20	-37.16	39.75	-56.47	-25.00	31.47	146	0	Horizontal
5	15504.5400	34.24	-35.35	38.57	-57.80	-25.00	32.80	208	46	Horizontal
6	17008.5	35.75	-33.29	38.50	-54.29	-25.00	29.29	191	106	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	5168.1800	74.53	-45.31	32.97	-33.07	-25.00	8.07	215	16	Vertical
2	7752.2700	44.91	-42.69	36.69	-56.35	-25.00	31.35	239	165	Vertical
3	10336.3600	49.65	-39.06	38.84	-45.83	-25.00	20.83	248	197	Vertical
4	12920.4500	35.08	-37.16	39.75	-57.59	-25.00	32.59	185	60	Vertical
5	15504.5400	33.44	-35.35	38.57	-58.60	-25.00	33.60	162	60	Vertical
6	17031	38.46	-33.57	38.52	-51.86	-25.00	26.86	137	120	Vertical

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Test Band = LTE Band 41_20MHz _ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5342.1800	72.27	-45.18	32.85	-35.31	-25.00	10.31	286	242	Horizontal
2	8013.2700	40.42	-42.21	37.01	-60.04	-25.00	35.04	179	153	Horizontal
3	10684.3600	41.70	-37.97	39.13	-52.40	-25.00	27.40	262	47	Horizontal
4	13355.4500	34.53	-36.56	40.10	-57.19	-25.00	32.19	135	77	Horizontal
5	16026.5400	34.19	-34.85	37.83	-58.10	-25.00	33.10	284	331	Horizontal
6	17688	35.52	-33.93	40.10	-53.58	-25.00	28.58	166	182	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	5342.1800	76.96	-45.18	32.85	-30.62	-25.00	5.62	136	1	Vertical
2	8013.2700	45.45	-42.21	37.01	-55.01	-25.00	30.01	295	25	Vertical
3	10684.3600	38.67	-37.97	39.13	-55.43	-25.00	30.43	176	208	Vertical
4	13355.4500	34.81	-36.56	40.10	-56.91	-25.00	31.91	289	42	Vertical
5	16026.5400	34.33	-34.85	37.83	-57.96	-25.00	32.96	214	166	Vertical
6	17622.75	34.94	-33.41	39.68	-54.06	-25.00	29.06	158	0	Vertical

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Test Band = LTE 41A_42A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	23.78	-19.47	32.86	-58.09	-40.00	18.09	148	6	Horizontal
2	7491.2700	38.47	-43.00	36.44	-63.35	-40.00	23.35	219	98	Horizontal
3	9988.3600	34.68	-39.39	38.47	-61.49	-40.00	21.49	286	4	Horizontal
4	12199.6875	33.63	-37.13	39.13	-59.63	-40.00	19.63	124	132	Horizontal
5	14204.3600	29.93	-35.15	40.23	-60.25	-40.00	20.25	169	262	Horizontal
6	17755.4500	32.51	-34.10	40.53	-56.31	-40.00	16.31	150	18	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	4994.1800	23.68	-19.47	32.86	-58.19	-40.00	18.19	284	6	Vertical
2	7491.2700	38.61	-43.00	36.44	-63.21	-40.00	23.21	156	294	Vertical
3	9988.3600	35.43	-39.39	38.47	-60.74	-40.00	20.74	233	145	Vertical
4	11549.9375	33.41	-36.99	38.95	-59.90	-40.00	19.90	296	130	Vertical
5	14204.3600	29.84	-35.15	40.23	-60.34	-40.00	20.34	274	360	Vertical
6	17755.4500	32.81	-34.10	40.53	-56.01	-40.00	16.01	152	195	Vertical

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Test Band = LTE 41A_42A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.1800	23.03	-19.10	32.97	-58.35	-40.00	18.35	287	282	Horizontal
2	7752.2700	38.94	-42.62	36.69	-62.26	-40.00	22.26	146	16	Horizontal
3	9334.2708	37.81	-39.90	38.44	-58.91	-40.00	18.91	233	81	Horizontal
4	10336.3600	33.67	-39.05	38.84	-61.80	-40.00	21.80	289	342	Horizontal
5	14264.3600	30.68	-35.62	40.18	-60.02	-40.00	20.02	241	342	Horizontal
6	17830.4500	33.03	-34.61	41.04	-55.79	-40.00	15.79	152	3	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	5168.1800	23.89	-19.10	32.97	-57.49	-40.00	17.49	189	325	Vertical
2	7752.2700	39.10	-42.62	36.69	-62.10	-40.00	22.10	293	360	Vertical
3	9333.7917	37.59	-39.90	38.44	-59.13	-40.00	19.13	309	81	Vertical
4	10336.3600	34.67	-39.05	38.84	-60.80	-40.00	20.80	248	360	Vertical
5	14264.3600	30.73	-35.62	40.18	-59.97	-40.00	19.97	156	178	Vertical
6	17830.4500	32.65	-34.61	41.04	-56.17	-40.00	16.17	108	310	Vertical

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Member of the SGS Group (SGS SA)

Test Band = LTE 41A_42A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5255.1800	23.46	-18.89	32.94	-57.75	-40.00	17.75	177	258	Horizontal
2	7882.7700	38.46	-42.74	36.88	-62.67	-40.00	22.67	192	146	Horizontal
3	9358.2292	37.80	-39.77	38.46	-58.77	-40.00	18.77	305	49	Horizontal
4	10510.3600	34.80	-38.59	38.97	-60.08	-40.00	20.08	256	277	Horizontal
5	14324.3600	32.01	-35.51	40.14	-58.62	-40.00	18.62	284	311	Horizontal
6	17905.4500	33.24	-34.62	41.58	-55.07	-40.00	15.07	162	146	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	5255.1800	23.50	-18.89	32.94	-57.71	-40.00	17.71	211	1	Vertical
2	7882.7700	38.56	-42.74	36.88	-62.57	-40.00	22.57	149	81	Vertical
3	10510.3600	33.97	-38.59	38.97	-60.91	-40.00	20.91	263	243	Vertical
4	12708.0833	32.75	-36.84	39.47	-59.88	-40.00	19.88	287	310	Vertical
5	14324.3600	31.51	-35.51	40.14	-59.12	-40.00	19.12	142	326	Vertical
6	17905.4500	32.74	-34.62	41.58	-55.57	-40.00	15.57	230	192	Vertical

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Member of the SGS Group (SGS SA)

Test Band = LTE 41A_66A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3404.1800	43.08	-46.28	29.43	-69.03	-25.00	44.03	265	139	Horizontal
2	4994.1800	68.96	-45.63	32.86	-39.07	-25.00	14.07	197	231	Horizontal
3	7491	47.37	-43.16	36.44	-54.61	-25.00	29.61	155	62	Horizontal
4	8510.4500	38.82	-41.59	37.56	-60.47	-25.00	35.47	134	331	Horizontal
5	9988.3600	44.29	-39.25	38.47	-51.75	-25.00	26.75	316	62	Horizontal
6	11914.6300	33.86	-37.18	38.88	-59.70	-25.00	34.70	204	359	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	3404.1800	43.31	-46.28	29.43	-68.80	-25.00	43.80	287	360	Vertical
2	4994.1800	71.82	-45.63	32.86	-36.21	-25.00	11.21	149	16	Vertical
3	7491	50.82	-43.16	36.44	-51.16	-25.00	26.16	216	357	Vertical
4	8510.4500	38.71	-41.59	37.56	-60.58	-25.00	35.58	305	153	Vertical
5	9988.3600	48.47	-39.25	38.47	-47.57	-25.00	22.57	141	153	Vertical
6	11914.6300	33.24	-37.18	38.88	-60.32	-25.00	35.32	219	164	Vertical

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Test Band = LTE 41A_66A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.1800	43.99	-46.27	29.48	-68.06	-25.00	43.06	158	105	Horizontal
2	5168.1800	69.65	-45.31	32.97	-37.95	-25.00	12.95	214	224	Horizontal
3	7752.2700	41.13	-42.69	36.69	-60.13	-25.00	35.13	223	88	Horizontal
4	8635.4500	39.10	-41.46	37.81	-59.81	-25.00	34.81	169	343	Horizontal
5	10336.3600	38.25	-39.06	38.84	-57.23	-25.00	32.23	277	74	Horizontal
6	12089.6300	33.82	-37.37	39.04	-59.77	-25.00	34.77	149	329	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	3454.1800	43.42	-46.27	29.48	-68.63	-25.00	43.63	244	61	Vertical
2	5168.1800	71.13	-45.31	32.97	-36.47	-25.00	11.47	175	14	Vertical
3	7752.2700	45.45	-42.69	36.69	-55.81	-25.00	30.81	151	209	Vertical
4	8635.4500	38.42	-41.46	37.81	-60.49	-25.00	35.49	259	120	Vertical
5	10336.3600	41.49	-39.06	38.84	-53.99	-25.00	28.99	137	44	Vertical
6	12089.6300	33.75	-37.37	39.04	-59.84	-25.00	34.84	219	4	Vertical

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Test Band = LTE 41A_66A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.1800	42.99	-46.25	29.52	-69.00	-25.00	44.00	142	14	Horizontal
2	5342.1800	71.18	-45.18	32.85	-36.40	-25.00	11.40	234	351	Horizontal
3	8013.2700	39.74	-42.21	37.01	-60.72	-25.00	35.72	184	121	Horizontal
4	8760.4500	38.46	-41.42	38.02	-60.21	-25.00	35.21	219	226	Horizontal
5	10684.3600	36.32	-37.97	39.13	-57.78	-25.00	32.78	204	329	Horizontal
6	12262.6300	33.60	-37.44	39.11	-59.99	-25.00	34.99	172	135	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	3504.1800	43.97	-46.25	29.52	-68.02	-25.00	43.02	247	103	Vertical
2	5342.1800	74.85	-45.18	32.85	-32.73	-25.00	7.73	188	359	Vertical
3	8013.2700	41.06	-42.21	37.01	-59.40	-25.00	34.40	294	360	Vertical
4	8760.4500	38.62	-41.42	38.02	-60.05	-25.00	35.05	165	44	Vertical
5	10684.3600	41.82	-37.97	39.13	-52.28	-25.00	27.28	305	238	Vertical
6	12262.6300	34.00	-37.44	39.11	-59.59	-25.00	34.59	162	239	Vertical

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Test Band = LTE 41A_71A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.1800	28.37	-24.80	25.61	-66.08	-25.00	41.08	215	273	Horizontal
2	1992.2700	28.73	-24.48	26.60	-64.41	-25.00	39.41	168	213	Horizontal
3	2656.3600	29.84	-22.84	28.21	-60.05	-25.00	35.05	297	56	Horizontal
4	4994.1800	61.25	-45.63	32.86	-46.78	-25.00	21.78	142	135	Horizontal
5	7491.2700	39.82	-43.16	36.44	-62.16	-25.00	37.16	134	74	Horizontal
6	9988.3600	39.05	-39.25	38.47	-56.99	-25.00	31.99	277	209	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	1328.1800	28.19	-24.80	25.61	-66.26	-25.00	41.26	129	0	Vertical
2	1992.2700	28.74	-24.48	26.60	-64.40	-25.00	39.40	211	320	Vertical
3	2656.3600	29.71	-22.84	28.21	-60.18	-25.00	35.18	158	232	Vertical
4	4994.1800	64.94	-45.63	32.86	-43.09	-25.00	18.09	219	136	Vertical
5	7491.2700	44.55	-43.16	36.44	-57.43	-25.00	32.43	234	165	Vertical
6	9988.3600	36.28	-39.25	38.47	-59.76	-25.00	34.76	175	165	Vertical

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Test Band = LTE 41A_71A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1348.1800	28.55	-24.92	25.61	-66.02	-25.00	41.02	209	56	Horizontal
2	2022.2700	28.65	-24.41	26.72	-64.30	-25.00	39.30	287	26	Horizontal
3	2696.3600	29.97	-22.85	28.28	-59.86	-25.00	34.86	146	357	Horizontal
4	5168.1800	61.13	-45.31	32.97	-46.47	-25.00	21.47	235	359	Horizontal
5	7752.2700	40.79	-42.69	36.69	-60.47	-25.00	35.47	241	224	Horizontal
6	10336.3600	37.40	-39.06	38.84	-58.08	-25.00	33.08	158	13	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	1348.1800	28.29	-24.92	25.61	-66.28	-25.00	41.28	247	322	Vertical
2	2022.2700	28.92	-24.41	26.72	-64.03	-25.00	39.03	184	303	Vertical
3	2696.3600	29.38	-22.85	28.28	-60.45	-25.00	35.45	126	284	Vertical
4	5168.1800	64.37	-45.31	32.97	-43.23	-25.00	18.23	265	135	Vertical
5	7752	44.70	-42.70	36.69	-56.57	-25.00	31.57	284	344	Vertical
6	10336.3600	39.81	-39.06	38.84	-55.67	-25.00	30.67	122	150	Vertical

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Test Band = LTE 41A_71A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.1800	28.99	-24.98	25.61	-65.64	-25.00	40.64	240	272	Horizontal
2	2037.2700	28.76	-24.37	26.77	-64.10	-25.00	39.10	156	233	Horizontal
3	2716.3600	30.32	-22.80	28.32	-59.42	-25.00	34.42	282	66	Horizontal
4	5342.25	64.23	-45.18	32.85	-43.35	-25.00	18.35	167	14	Horizontal
5	7882.7700	40.05	-42.73	36.88	-61.07	-25.00	36.07	154	179	Horizontal
6	10510.3600	35.49	-38.77	38.97	-59.56	-25.00	34.56	138	331	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	1358.1800	28.96	-24.98	25.61	-65.67	-25.00	40.67	224	323	Vertical
2	2037.2700	28.68	-24.37	26.77	-64.18	-25.00	39.18	186	107	Vertical
3	2716.3600	29.27	-22.80	28.32	-60.47	-25.00	35.47	306	8	Vertical
4	5342.25	69.57	-45.18	32.85	-38.01	-25.00	13.01	217	28	Vertical
5	7882.7700	40.14	-42.73	36.88	-60.98	-25.00	35.98	228	148	Vertical
6	10684.5	39.61	-37.97	39.13	-54.49	-25.00	29.49	156	316	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-2.60	-0.001003	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	0.50	0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	6.00	0.002314	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-5.40	-0.002083	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	0.10	0.000039	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-7.90	-0.003047	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-9.10	-0.003509	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-1.50	-0.000578	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-5.80	-0.002237	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	3.40	0.001311	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-4.90	-0.001890	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	1.60	0.000617	PASS

---End of Attachment---

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