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Appendix B

E-UTRA Band 13



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT0:

Dond	Down all wild like	Madulation	Channal	RB	Conducted	ERP	Limit	\/o.udiot
Band	Bandwidth	Modulation	Channel	Configuration	Power(dBm)	(dBm)	(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.85	18.08	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.95	18.18	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.89	18.12	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.93	17.16	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.05	17.28	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.02	17.25	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.01	17.24	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.92	18.15	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.88	18.11	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.01	18.24	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.97	17.20	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.05	17.28	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.08	17.31	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.99	17.22	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.98	18.21	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.11	18.34	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.84	18.07	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.95	17.18	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.05	17.28	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.01	17.24	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.03	17.26	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.16	17.39	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.17	17.40	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.29	17.52	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.01	16.24	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.10	16.33	34.77	PASS



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Band13	5MHz	16QAM	23205	12RB#13	21.02	16.25	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.13	16.36	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.47	17.70	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.33	17.56	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.49	17.72	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.93	16.16	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.97	16.20	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.01	16.24	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.98	16.21	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.10	17.33	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.54	17.77	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.53	17.76	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.90	16.13	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.99	16.22	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.02	16.25	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.01	16.24	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	20.36	15.59	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	20.35	15.58	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	20.35	15.58	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	19.34	14.57	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	19.39	14.62	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	19.40	14.63	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	19.29	14.52	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	20.67	15.90	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	20.67	15.90	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	20.56	15.79	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	19.62	14.85	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	19.74	14.97	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	19.78	15.01	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	19.73	14.96	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	20.73	15.96	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	20.73	15.96	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	20.56	15.79	34.77	PASS



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Band13	5MHz	64QAM	23255	12RB#6	19.62	14.85	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	19.87	15.10	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	19.73	14.96	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	19.63	14.86	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	17.41	12.64	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	17.4	12.63	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	17.25	12.48	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#13	17.27	12.50	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#0	17.41	12.64	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#6	17.23	12.46	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	17.32	12.55	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	17.55	12.78	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	17.66	12.89	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	17.61	12.84	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#13	17.65	12.88	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#0	17.6	12.83	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#6	17.65	12.88	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	17.65	12.88	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	17.63	12.86	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	17.73	12.96	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	17.66	12.89	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#0	17.50	12.73	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#6	17.78	13.01	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#13	17.64	12.87	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	17.50	12.73	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.02	18.25	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.10	18.33	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.10	18.33	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.03	17.26	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.03	17.26	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.08	17.31	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.97	17.20	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.37	17.60	34.77	PASS
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Band13	10MHz	16QAM	23230	1RB#0	21.98	17.21	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.17	17.40	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.06	16.29	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.03	16.26	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.06	16.29	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.98	16.21	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.60	15.83	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	20.67	15.90	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	20.61	15.84	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	19.62	14.85	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	19.71	14.94	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	19.77	15.00	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	19.70	14.93	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	17.57	12.80	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	17.66	12.89	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	17.65	12.88	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#0	17.64	12.87	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#12	17.59	12.82	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#25	17.62	12.85	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	17.63	12.86	34.77	PASS



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ANT1:

Band	Bandwidth	Modulation	Channel	RB	Conducted	ERP	Limit	Verdict
Daniel 10	CNALL—	ODCK	00005	Configuration	Power(dBm)	(dBm)	(dBm)	PASS
Band13	5MHz	QPSK	23205	1RB#0	23.52	18.12	34.77	
Band13	5MHz	QPSK	23205	1RB#12	23.55	18.15	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.53	18.13	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.49	17.09	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.60	17.20	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.59	17.19	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.60	17.20	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.50	18.10	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.51	18.11	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.46	18.06	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.59	17.19	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.62	17.22	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.63	17.23	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.54	17.14	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.54	18.14	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.49	18.09	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.53	18.13	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.56	17.16	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.63	17.23	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.58	17.18	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.63	17.23	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.69	17.29	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.80	17.40	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.52	17.12	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.56	16.16	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.61	16.21	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.69	16.29	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.52	16.12	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.86	17.46	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.84	17.44	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.73	17.33	34.77	PASS



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						1	T	D4.00
Band13	5MHz	16QAM	23230	12RB#6	21.52	16.12	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.57	16.17	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.69	16.29	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.62	16.22	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.84	17.44	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.83	17.43	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.71	17.31	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.59	16.19	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.61	16.21	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.63	16.23	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.72	16.32	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.71	16.31	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.80	16.40	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.86	16.46	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.77	15.37	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.76	15.36	34.77	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.74	15.34	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.66	15.26	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.77	16.37	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.77	16.37	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.87	16.47	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.65	15.25	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.73	15.33	34.77	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.70	15.30	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.73	15.33	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.75	16.35	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.84	16.44	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.81	16.41	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.71	15.31	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.83	15.43	34.77	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.75	15.35	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.74	15.34	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	18.76	13.36	34.77	PASS



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Band13	5MHz	256QAM	23205	1RB#12	18.77	13.37	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	18.76	13.36	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#13	18.68	13.28	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#0	18.8	13.40	34.77	PASS
Band13	5MHz	256QAM	23205	12RB#6	18.82	13.42	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	18.72	13.32	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	18.68	13.28	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	18.71	13.31	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	18.71	13.31	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#13	18.78	13.38	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#0	18.65	13.25	34.77	PASS
Band13	5MHz	256QAM	23230	12RB#6	18.7	13.30	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	18.7	13.30	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	18.71	13.31	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	18.85	13.45	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	18.71	13.31	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#0	18.76	13.36	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#6	18.68	13.28	34.77	PASS
Band13	5MHz	256QAM	23255	12RB#13	18.86	13.46	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	18.65	13.25	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.43	18.03	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.55	18.15	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.29	17.89	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.46	17.06	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.55	17.15	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.49	17.09	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.49	17.09	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.65	17.25	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.43	17.03	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.67	17.27	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.47	16.07	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.50	16.10	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.48	16.08	34.77	PASS
		•	•			•	*	



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Band13	10MHz	16QAM	23230	50RB#0	21.46	16.06	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.73	16.33	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.82	16.42	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.79	16.39	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.71	15.31	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.75	15.35	34.77	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.69	15.29	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.67	15.27	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	18.67	13.27	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	18.80	13.40	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	18.67	13.27	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#0	18.63	13.23	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#12	18.66	13.26	34.77	PASS
Band13	10MHz	256QAM	23230	25RB#25	18.72	13.32	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	18.65	13.25	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

The conducted Power is measured by Base Station Simulator



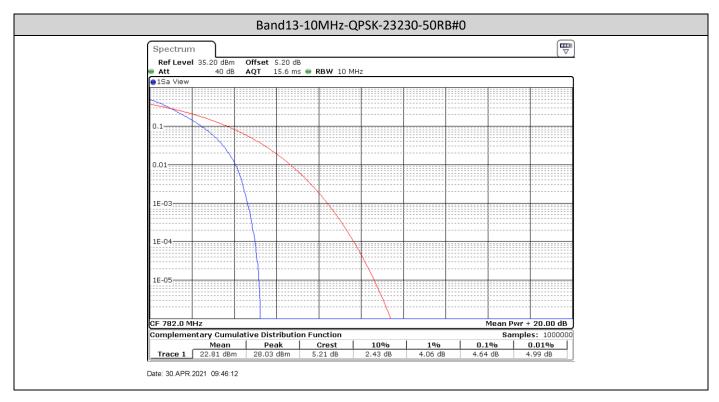
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

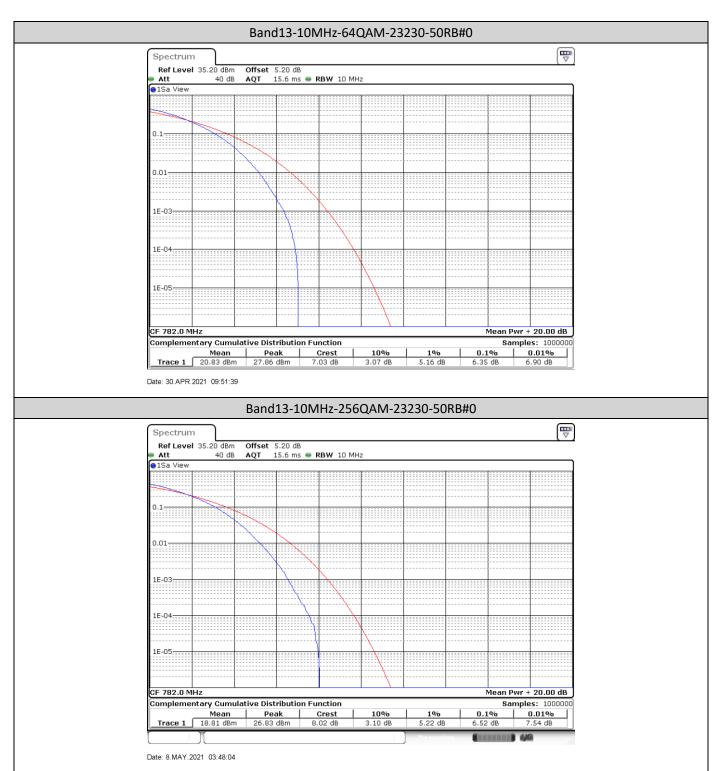
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.64	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.35	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	6.52	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.65	13	PASS

2.2. Test Plots





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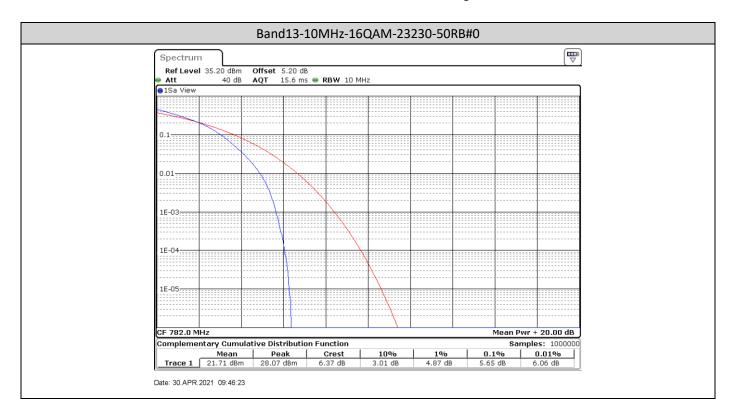
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Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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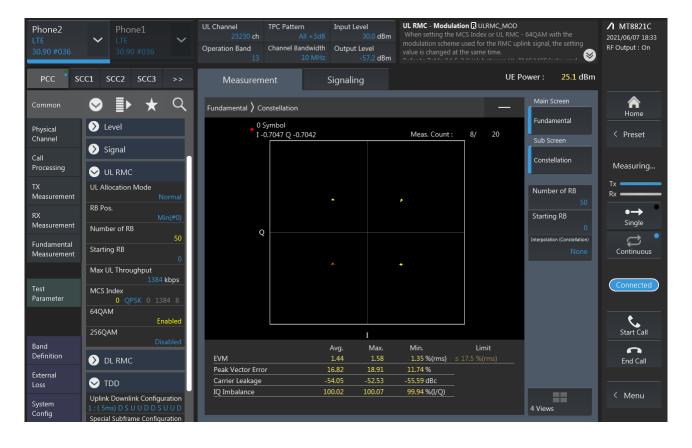
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH

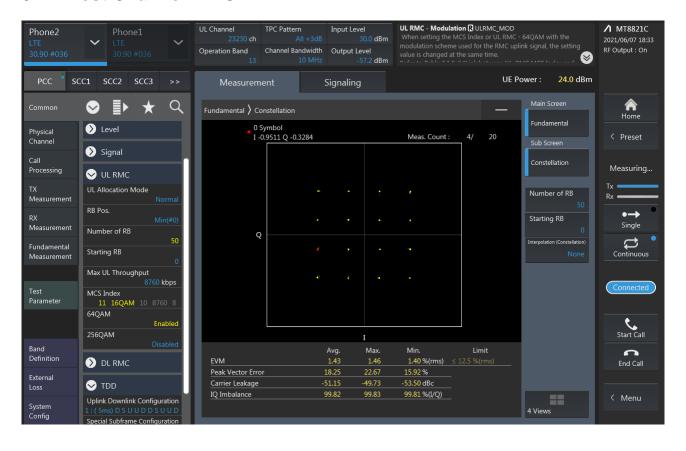




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3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH

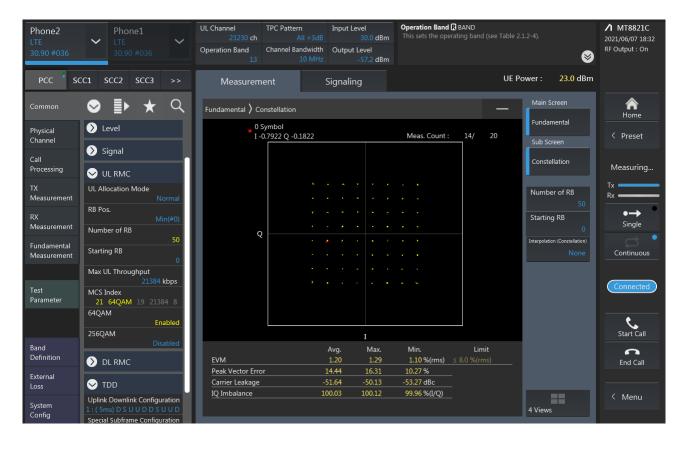




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3.3. Test Mode = LTE /TM3 10MHz

3.3.1.Test Channel = MCH

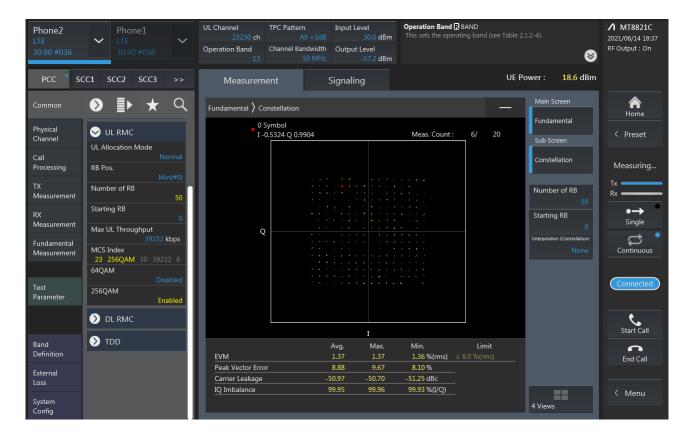




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3.4. Test Mode = LTE /TM4 10MHz

3.4.1.Test Channel = MCH





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4. 26dB Bandwidth and Occupied Bandwidth

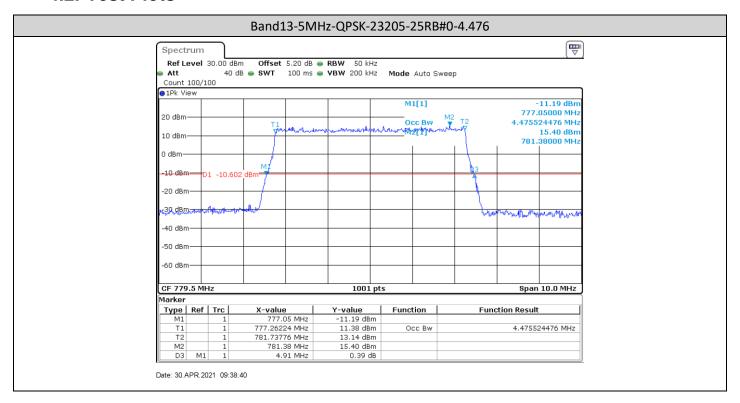
4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.476	4.910	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.900	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.466	4.890	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.476	4.900	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.476	4.870	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.466	4.850	PASS
Band13	5MHz	256QAM	23205	25RB#0	4.476	4.890	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.476	4.890	PASS
Band13	5MHz	256QAM	23255	25RB#0	4.476	4.900	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.496	4.930	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.486	4.920	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.486	4.930	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.700	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.931	9.660	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.931	9.720	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.680	PASS



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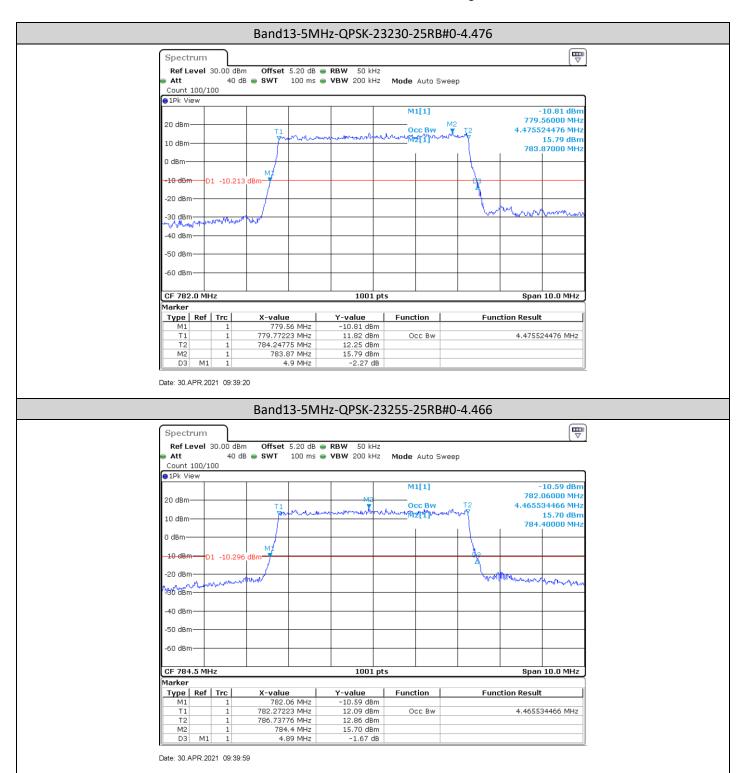
4.2. Test Plots





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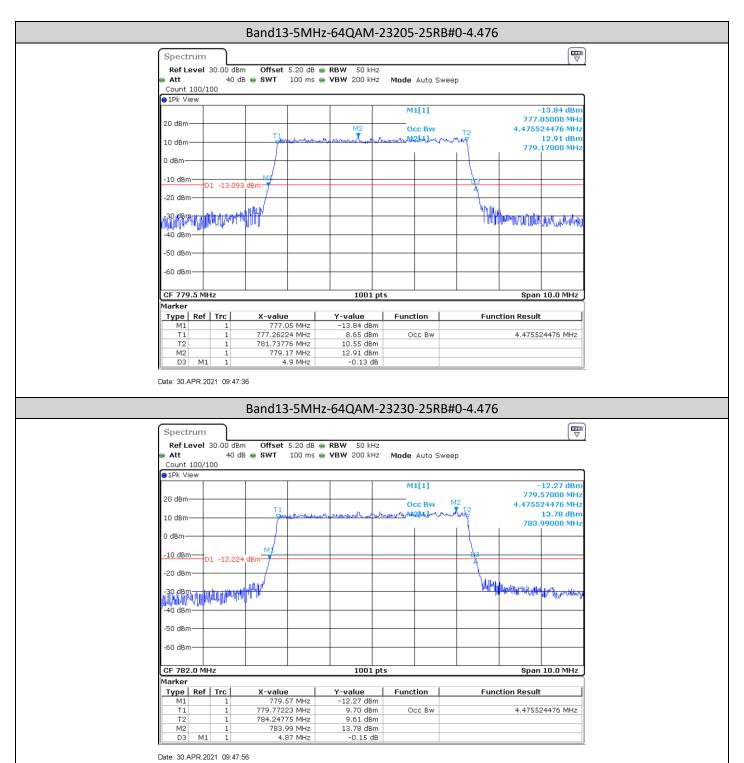
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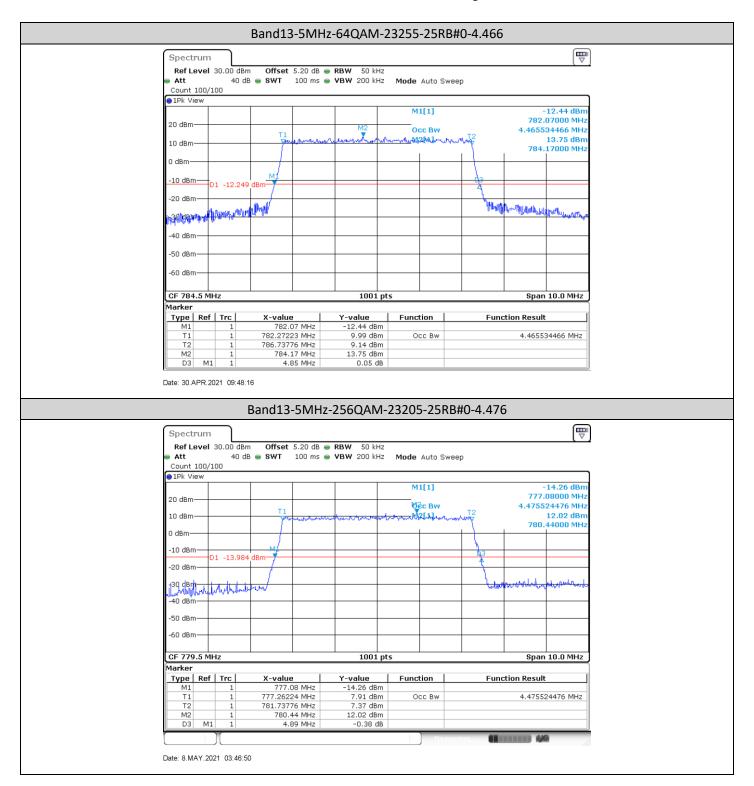
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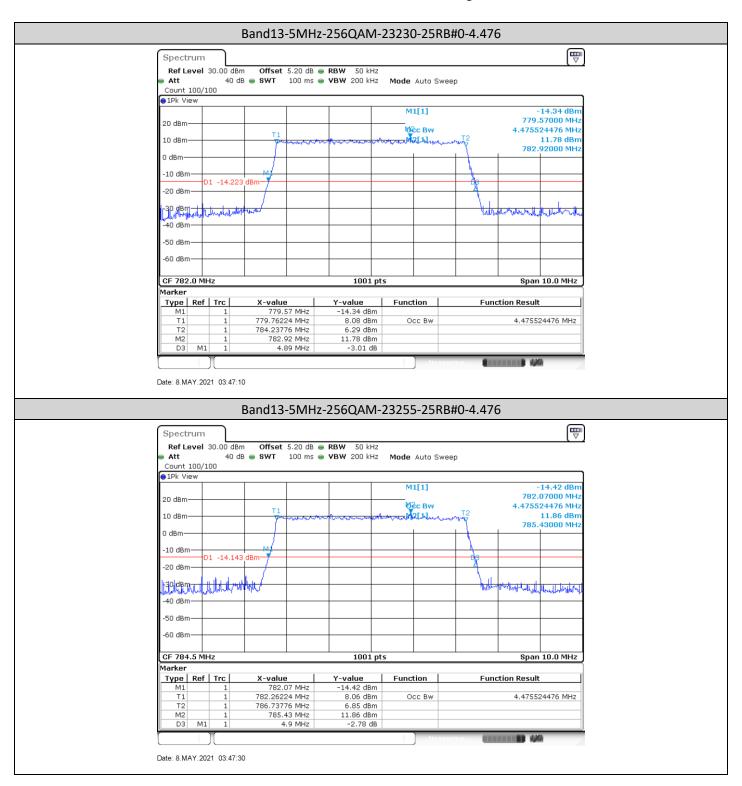
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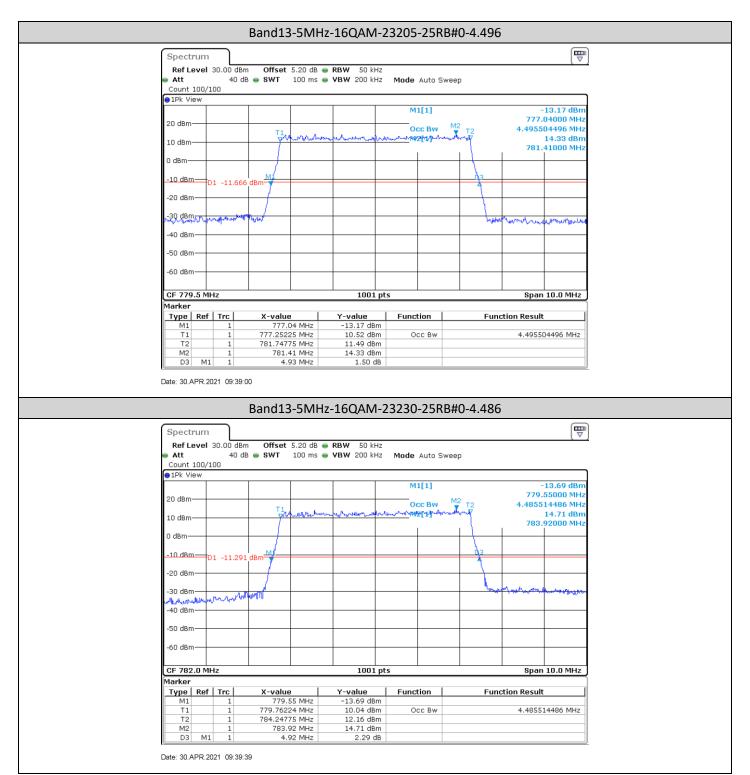
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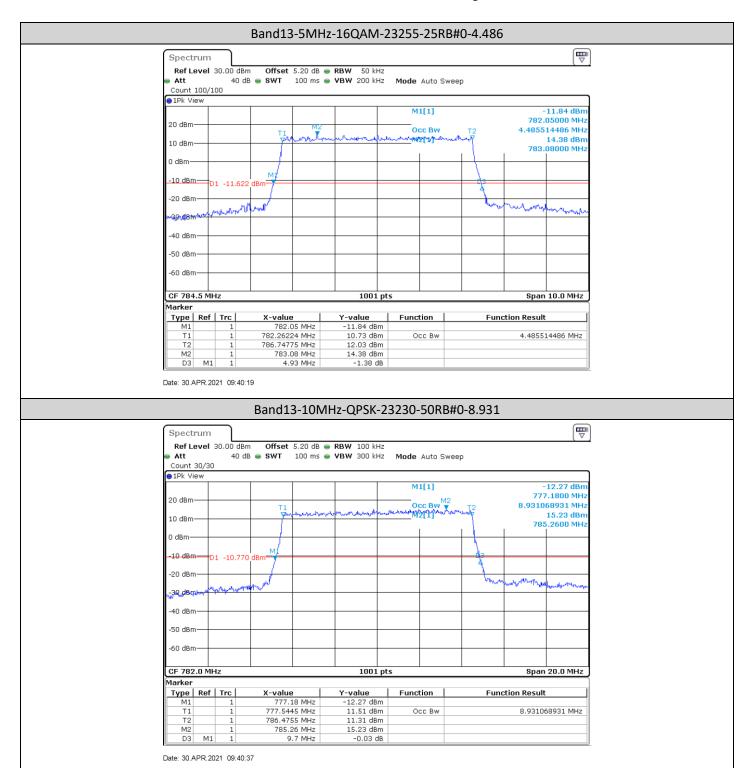
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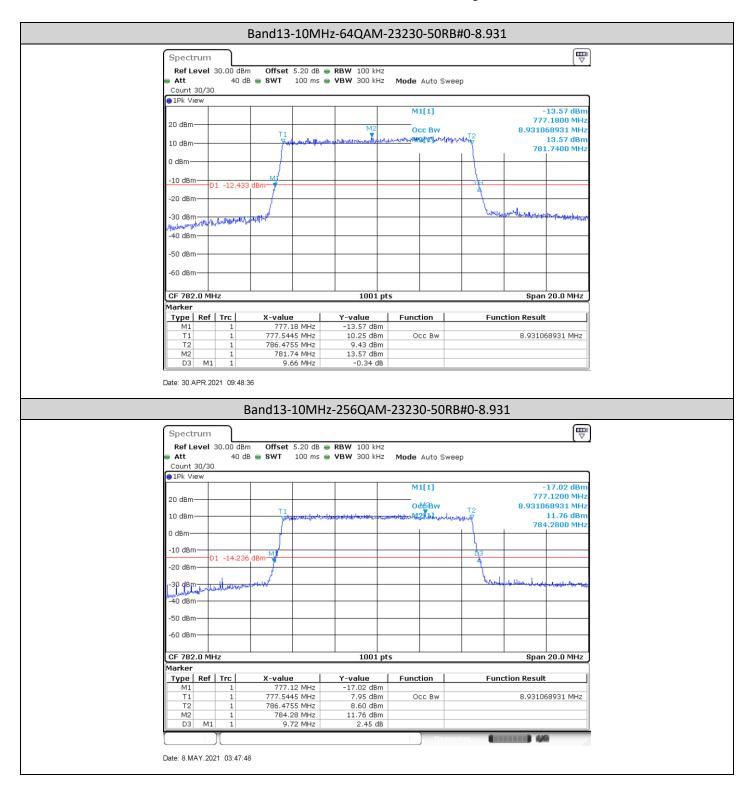
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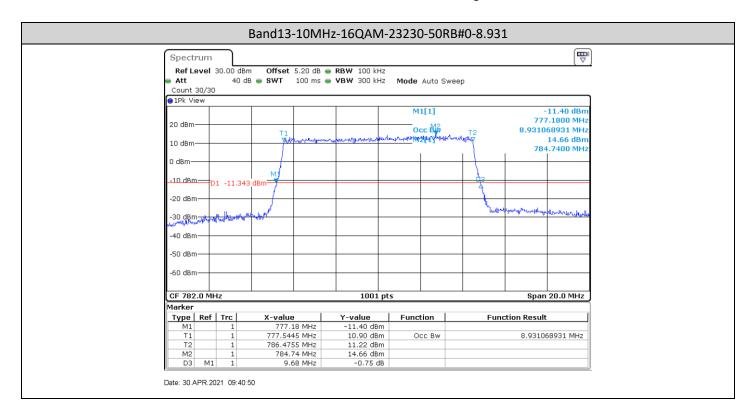
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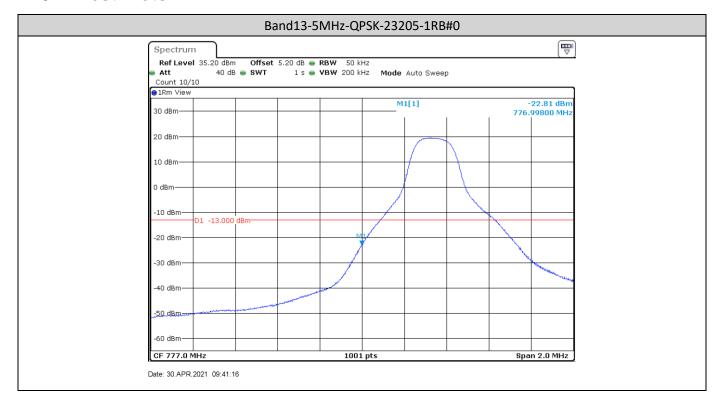
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5. Band Edge Compliance

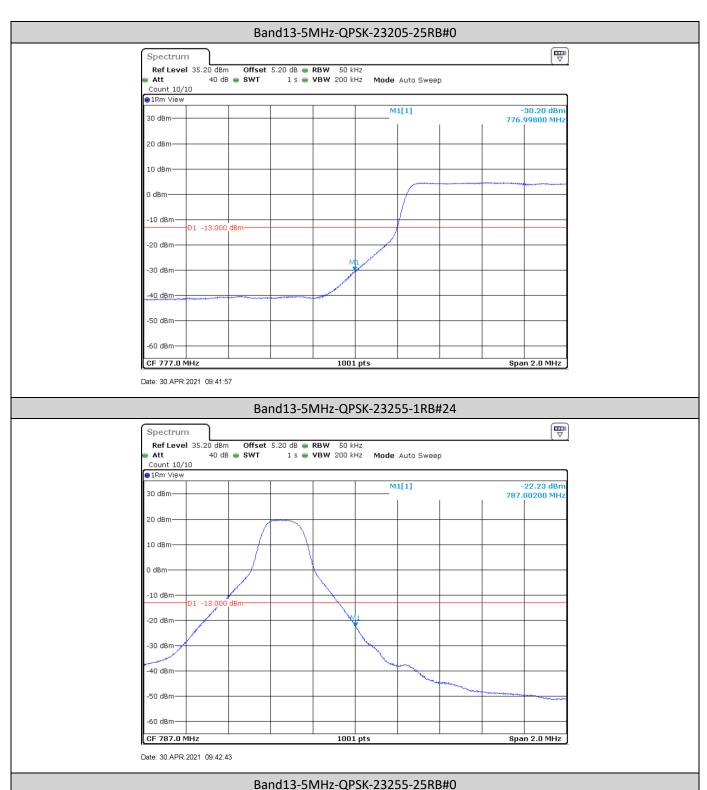
5.1. Test Plots





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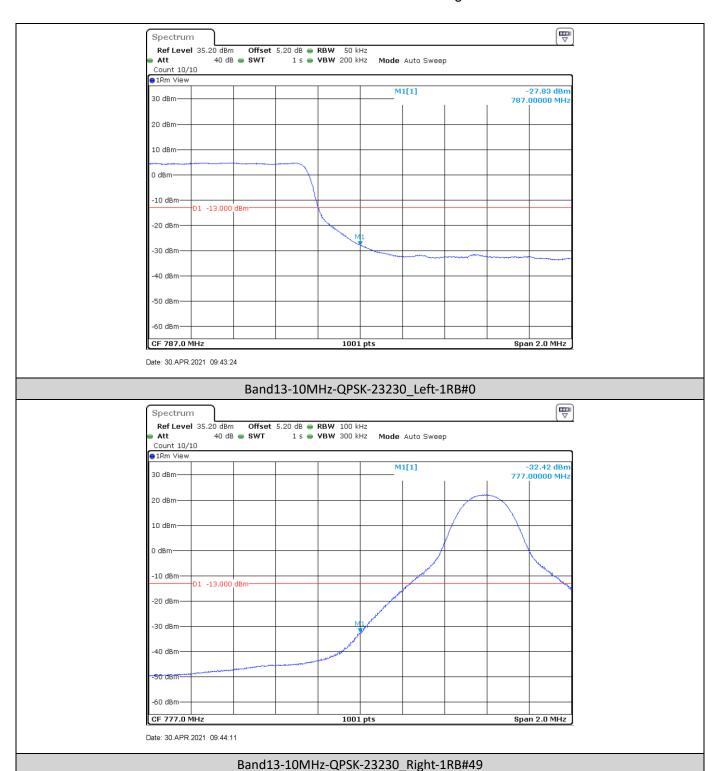
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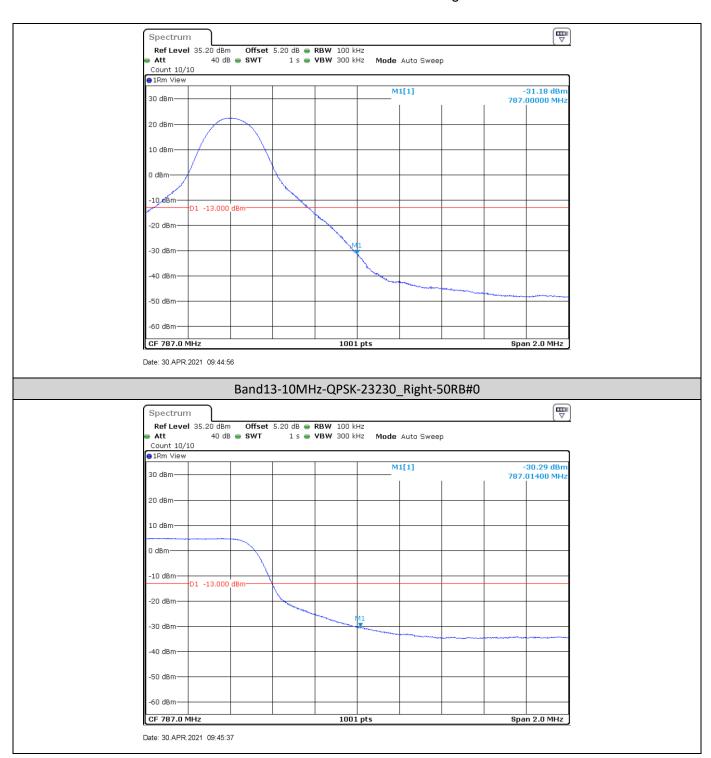
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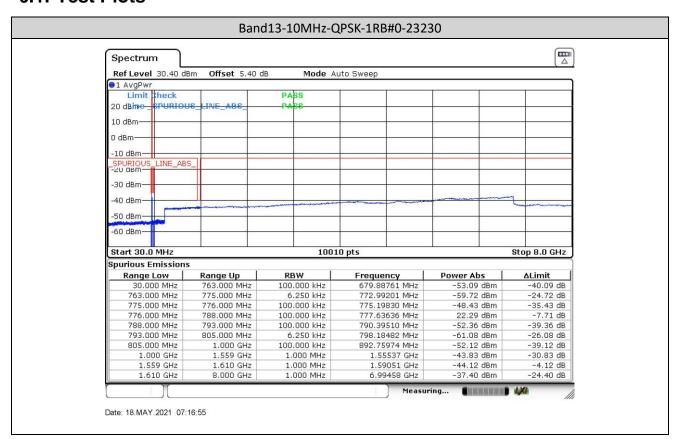
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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported. Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots





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Field Strength of Spurious Radiation

7.1.Test Band LTE_Band13 _TM1 ANT0

7.1.1. Test Channel Mid Channel

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	41.1564	-70.28	-54.50	-13.00	41.50	Horizontal				
2	243.5479	-81.07	-69.43	-13.00	56.43	Horizontal				
3	1600.0750	-73.97	-62.68	-40.00	22.68	Horizontal				
4	2700.7126	-74.26	-55.35	-13.00	42.35	Horizontal				
5	5328.2931	-54.68	-53.49	-13.00	40.49	Horizontal				
6	9727.5491	-58.28	-51.32	-13.00	38.32	Horizontal				



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7.2. Test Band LTE_Band13 _TM1 ANT0

7.2.1. Test Channel Mid Channel

Suspected Data List									
NO.	Freq.	Reading	Level	Limit	Margin	Polarity			
110.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	lolanty			
1	40.5501	-70.11	-67.28	-13.00	54.28	Vertical			
2	113.4304	-80.99	-65.95	-13.00	52.95	Vertical			
3	556.7758	-80.21	-65.65	-13.00	52.65	Vertical			
4	1600.3250	-73.87	-62.60	-40.00	22.60	Vertical			
5	5241.7697	-54.89	-54.98	-13.00	41.98	Vertical			
6	9283.1713	-57.91	-50.98	-13.00	37.98	Vertical			



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7.3. Test Band LTE_Band13 _TM1 ANT1

7.3.1. Test Channel Mid Channel

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	40.5501	-70.11	-67.28	-13.00	54.28	Vertical				
2	113.4304	-80.99	-65.95	-13.00	52.95	Vertical				
3	556.7758	-80.21	-65.65	-13.00	52.65	Vertical				
4	1600.3250	-73.87	-62.60	-40.00	22.60	Vertical				
5	5241.7697	-54.89	-54.98	-13.00	41.98	Vertical				
6	9283.1713	-57.91	-50.98	-13.00	37.98	Vertical				



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7.4. Test Band LTE_Band13 _TM1 ANT1

7.4.1. Test Channel Mid Channel

Susp	Suspected Data List									
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	44.1880	-74.19	-68.17	-13.00	55.17	Vertical				
2	106.8821	-81.84	-67.17	-13.00	54.17	Vertical				
3	1585.8232	-74.58	-63.22	-40.00	23.22	Vertical				
4	2227.6535	-69.52	-54.25	-13.00	41.25	Vertical				
5	5239.8096	-56.17	-56.30	-13.00	43.30	Vertical				
6	9727.8291	-60.06	-52.16	-13.00	39.16	Vertical				

Remark:

- According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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7. Frequency Stability

7.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-2.00	-0.002558	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-1.90	-0.002430	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-3.70	-0.004731	±2.5	PASS

7.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-1.80	-0.002302	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	1.60	0.002046	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-3.60	-0.004604	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-1.20	-0.001535	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-1.70	-0.002174	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.80	-0.002302	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.90	-0.002430	±2.5	PASS

