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Appendix B.3

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.27	23.18	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.31	23.22	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.3	23.21	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.38	22.29	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.37	23.28	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.43	23.34	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.4	23.31	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.43	22.34	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.37	23.28	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.39	23.3	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.4	23.31	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.41	22.32	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.07	22.98	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.13	23.04	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.09	23	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.09	21	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.8	22.71	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.76	22.67	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.86	22.77	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.45	21.36	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.17	23.08	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.09	23	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.03	22.94	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.12	21.03	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.38	21.29	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.4	21.31	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.38	21.29	30	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	17.78	18.69	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.79	21.7	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.81	21.72	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.76	21.67	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.04	19.95	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.46	21.37	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.44	21.35	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.43	21.34	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	18.96	19.87	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.29	23.2	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.34	23.25	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.34	23.25	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.4	22.31	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.4	23.31	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.41	23.32	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.47	23.38	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.41	22.32	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.35	23.26	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.39	23.3	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.35	23.26	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.4	22.31	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.62	22.53	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.61	22.52	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.62	22.53	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.63	21.54	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.26	23.17	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.2	23.11	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.31	23.22	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.57	21.48	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.71	22.62	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.73	22.64	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.68	22.59	30	PASS



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Band4	3MHz	64QAM	19965	1RB#0	20.71	21.62	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.64	21.55	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.65	21.56	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	17.86	18.77	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.43	21.34	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.38	21.29	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.47	21.38	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.04	19.95	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.69	21.6	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.65	21.56	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.7	21.61	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	18.96	19.87	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.79	23.7	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.28	23.19	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.35	23.26	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.35	22.26	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.35	23.26	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.38	23.29	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.38	23.29	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.43	22.34	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.38	23.29	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.28	23.19	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.39	23.3	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.35	22.26	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.97	22.88	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.09	23	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.97	22.88	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.37	21.28	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.88	22.79	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.91	22.82	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.75	22.66	30	PASS



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Band4	5MHz	16QAM	20175	25RB#0	20.68	21.59	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.99	22.9	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.04	22.95	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.15	23.06	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.43	21.34	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.3	21.21	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.29	21.2	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.31	21.22	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	17.84	18.75	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.76	21.67	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.77	21.68	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.75	21.66	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	18.96	19.87	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.29	21.2	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.35	21.26	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.36	21.27	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	18.98	19.89	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.26	23.17	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.47	23.38	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.38	23.29	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.36	22.27	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.41	23.32	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.37	23.28	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.4	23.31	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.44	22.35	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.32	23.23	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.38	23.29	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.38	23.29	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.36	22.27	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.59	22.5	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.69	22.6	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.67	22.58	30	PASS



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Band4	10MHz	16QAM	20000	50RB#0	20.57	21.48	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.9	22.81	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.86	22.77	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.81	22.72	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.61	21.52	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.63	22.54	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.76	22.67	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.7	22.61	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.5	21.41	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.71	21.62	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.66	21.57	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.81	21.72	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	17.71	18.62	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.76	21.67	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.68	21.59	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.64	21.55	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	18.98	19.89	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.65	21.56	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.64	21.55	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.71	21.62	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.08	19.99	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.14	23.05	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.4	23.31	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.42	23.33	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.44	22.35	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.31	23.22	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.35	23.26	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.41	23.32	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.43	22.34	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.26	23.17	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.35	23.26	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.38	23.29	30	PASS



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Band4	15MHz	16QAM	20025	1RB#0	21.61	22.52	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.8	22.71	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.74	22.65	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.5	21.41	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.69	22.6	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.83	22.74	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.8	22.71	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.47	21.38	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.73	22.64	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.71	22.62	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.78	22.69	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.42	21.33	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.58	21.49	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.74	21.65	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.82	21.73	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	18.99	19.9	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.73	21.64	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.66	21.57	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.71	21.62	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	18.96	19.87	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.57	21.48	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.67	21.58	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.79	21.7	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.03	19.94	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.2	23.11	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.38	23.29	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.45	23.36	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.42	22.33	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.35	23.26	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.42	23.33	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.45	23.36	30	PASS



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Band4	20MHz	QPSK	20175	100RB#0	21.43	22.34	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.32	23.23	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.34	23.25	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.4	23.31	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.39	22.3	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.67	22.58	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.69	22.6	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.82	22.73	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.52	21.43	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.75	22.66	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.86	22.77	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.76	22.67	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.58	21.49	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.1	23.01	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.16	23.07	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.15	23.06	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.47	21.38	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.58	21.49	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.81	21.72	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.7	21.61	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.1	20.01	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.72	21.63	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.8	21.71	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.77	21.68	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	18.94	19.85	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.24	21.15	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.38	21.29	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.46	21.37	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	18.98	19.89	30	PASS



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Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.80	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	6.10	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.84	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.54	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	7.00	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.64	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.90	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	7.28	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	7.14	13	PASS



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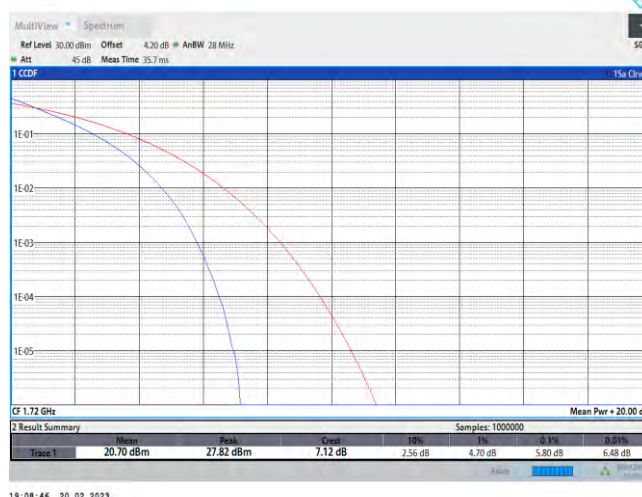
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Test Graphs

Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20175-100RB#0



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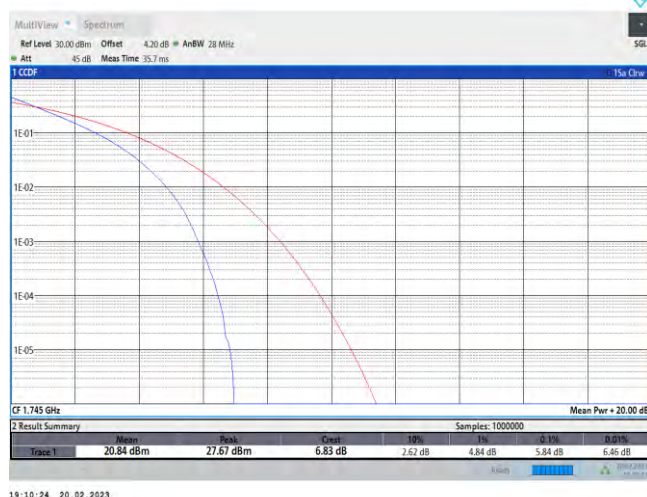
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Band4-20MHz-16QAM-20050-100RB#0



19:09:02 20.02.2023



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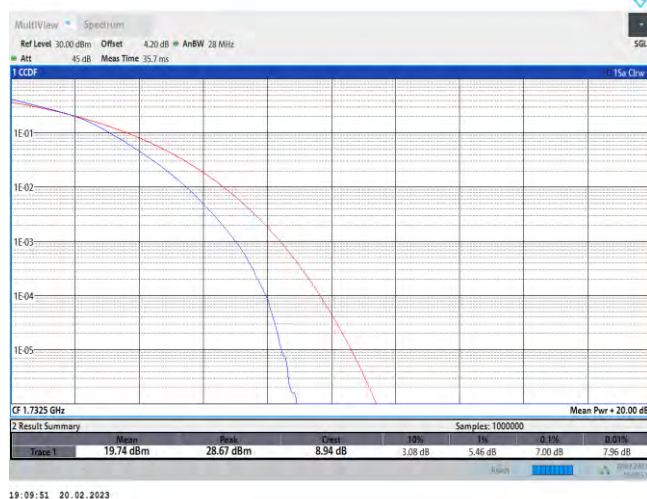
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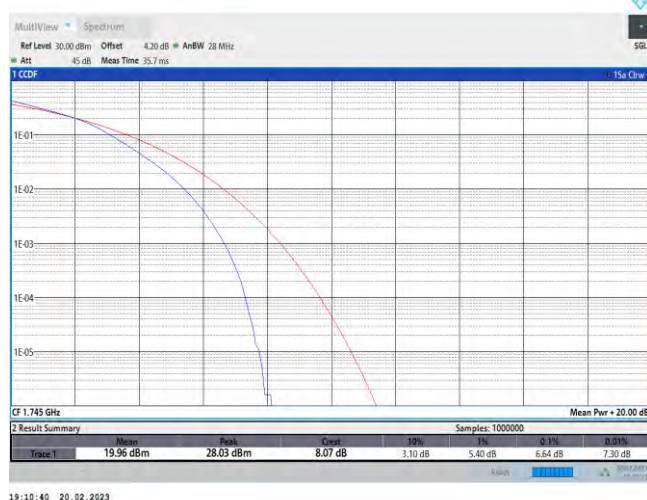
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Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0



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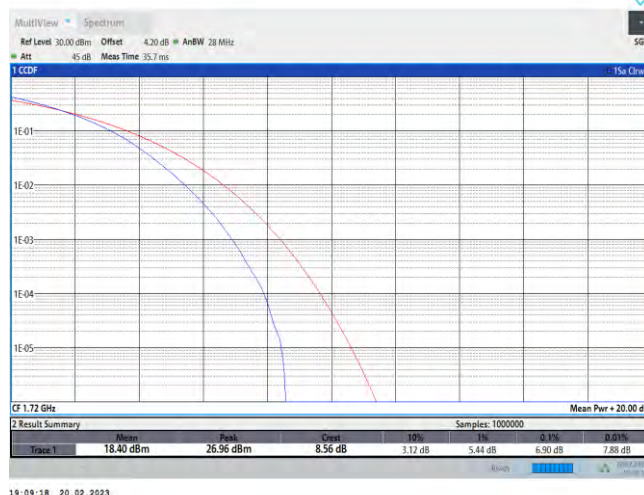
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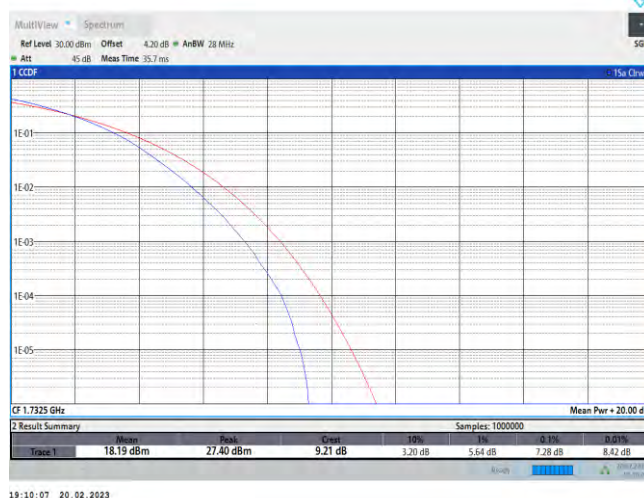
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Band4-20MHz-64QAM-20050-100RB#0



Band4-20MHz-64QAM-20175-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS



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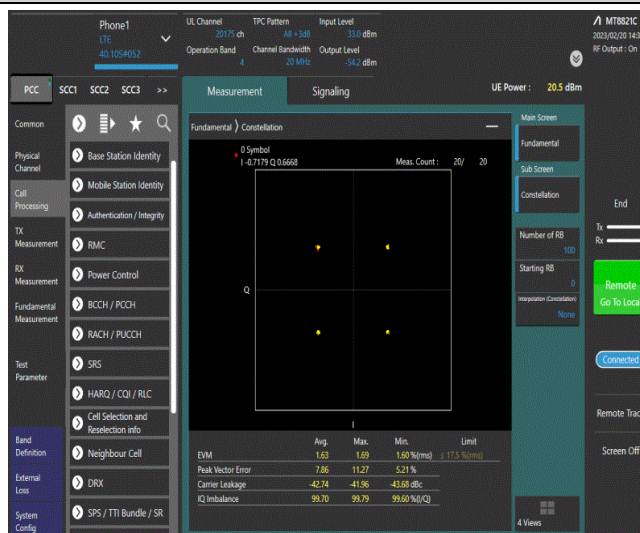
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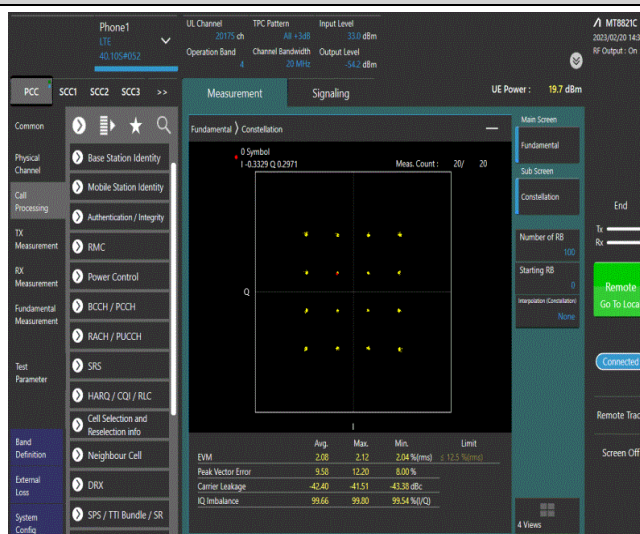
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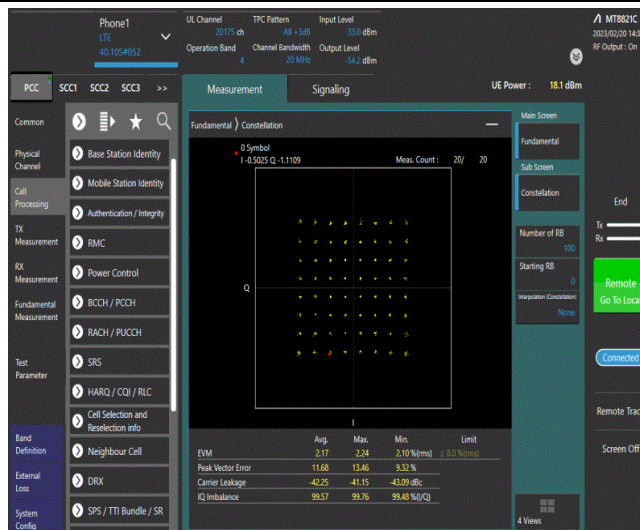


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.09	1.25	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.09	1.25	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.09	1.25	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.099	1.25	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.098	1.25	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.098	1.26	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.106	1.27	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.102	1.26	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.102	1.26	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.701	3.03	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.702	3.02	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.701	3.04	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.699	3.03	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.7	3.04	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.696	3.04	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.701	3.02	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.698	3.04	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.699	3.02	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.474	4.90	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.473	4.91	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.47	4.92	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.468	4.93	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.473	4.93	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.469	4.92	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.479	4.92	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.481	4.93	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.481	4.94	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.948	9.76	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.944	9.80	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.937	9.78	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.914	9.76	PASS



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Band4	10MHz	16QAM	20175	50RB#0	8.927	9.78	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.921	9.78	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.946	9.82	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.951	9.84	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.937	9.84	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.498	15.03	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.509	15.03	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.504	14.97	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.491	15.15	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.512	15.15	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.492	15.12	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.472	15.09	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.493	15.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.487	15.06	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.911	19.60	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.925	19.72	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.905	19.72	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.878	19.72	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.94	19.80	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.901	19.72	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.904	19.64	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.902	19.80	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.854	19.68	PASS



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Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



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Band4-1.4MHz-QPSK-20175-6RB#0



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Band4-1.4MHz-16QAM-19957-6RB#0



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Band4-1.4MHz-16QAM-20393-6RB#0



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Band4-1.4MHz-64QAM-20175-6RB#0



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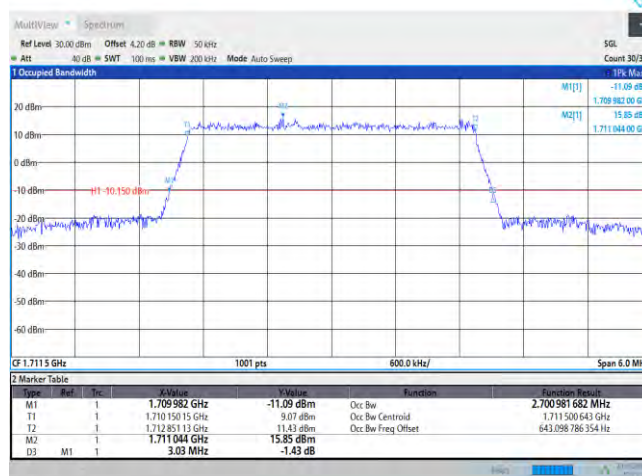
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Band4-1.4MHz-64QAM-20393-6RB#0



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Band4-3MHz-QPSK-19965-15RB#0



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Band4-3MHz-QPSK-20385-15RB#0



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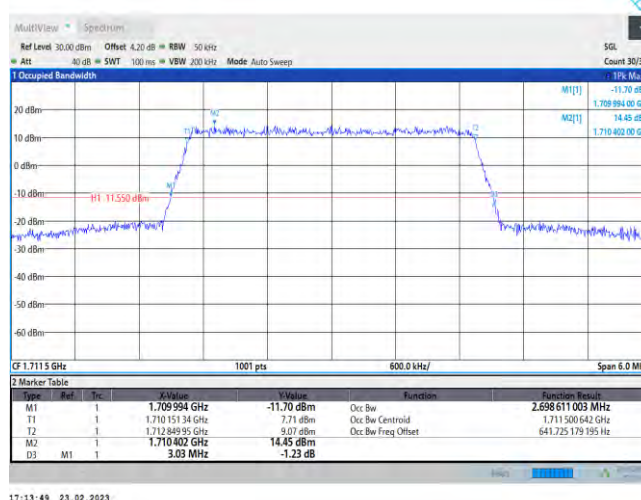
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Band4-3MHz-16QAM-20175-15RB#0



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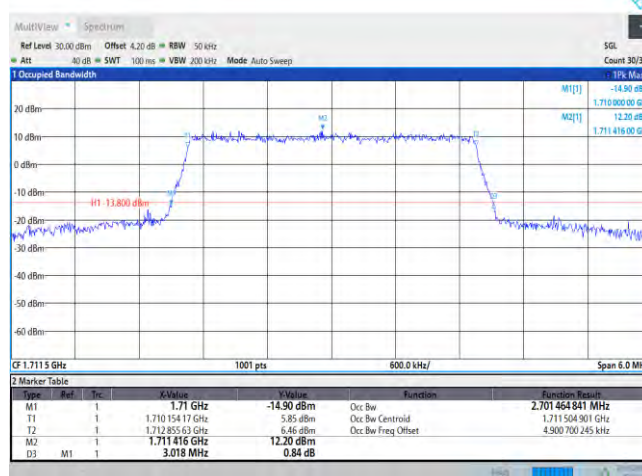
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Band4-3MHz-64QAM-19965-15RB#0



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Band4-3MHz-64QAM-20385-15RB#0



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Band4-5MHz-QPSK-20175-25RB#0



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Band4-5MHz-QPSK-20375-25RB#0



Band4-5MHz-16QAM-19975-25RB#0



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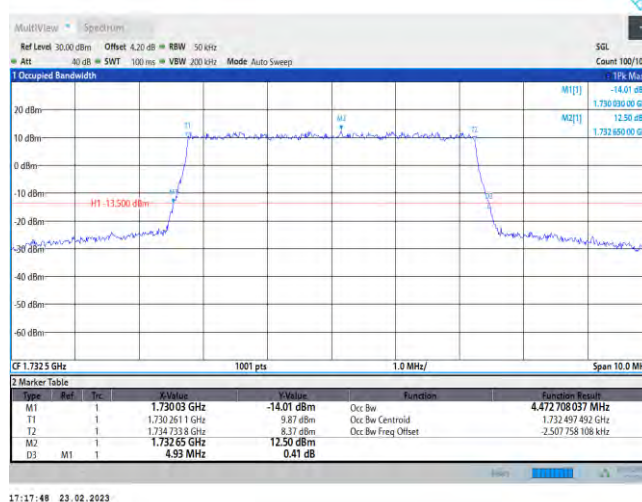
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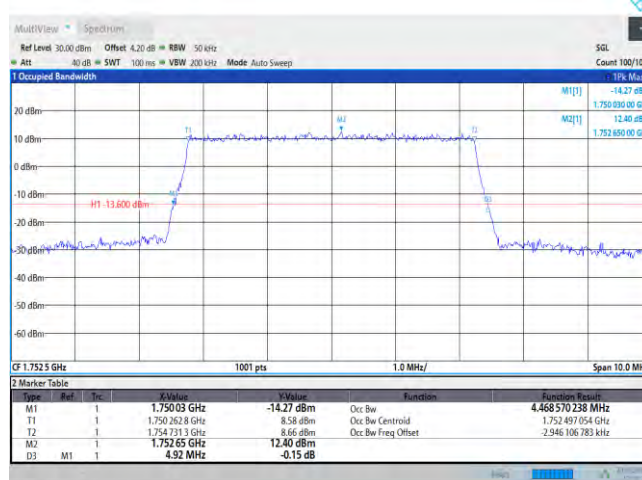
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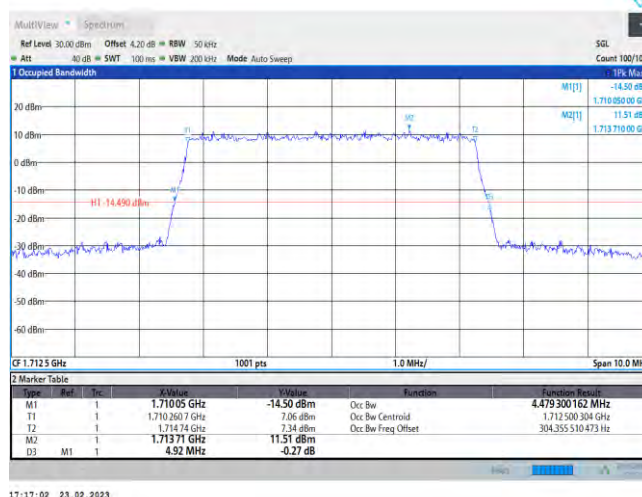
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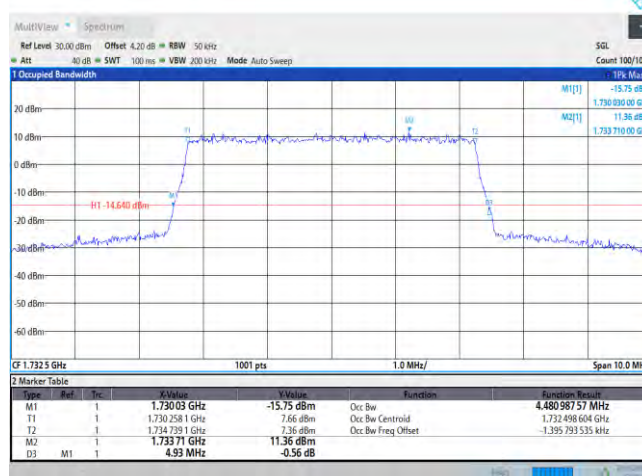
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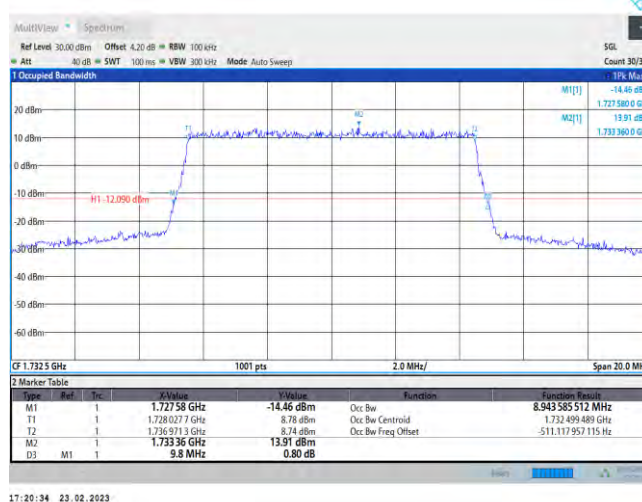
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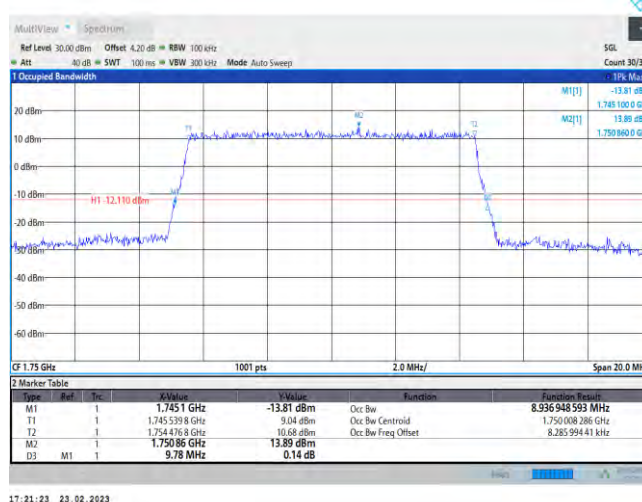
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Band4-10MHz-QPSK-20350-50RB#0



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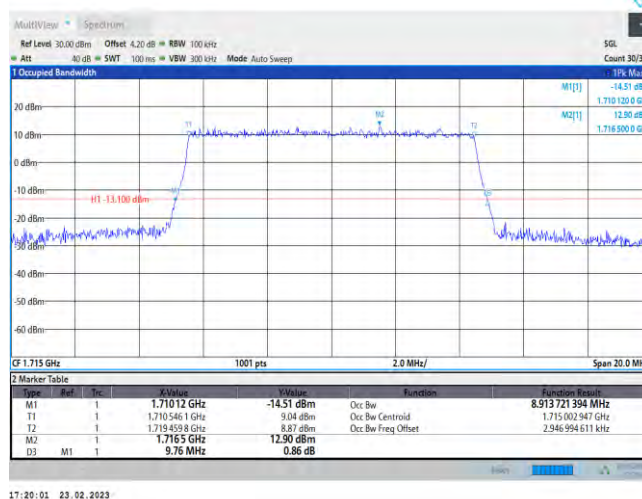
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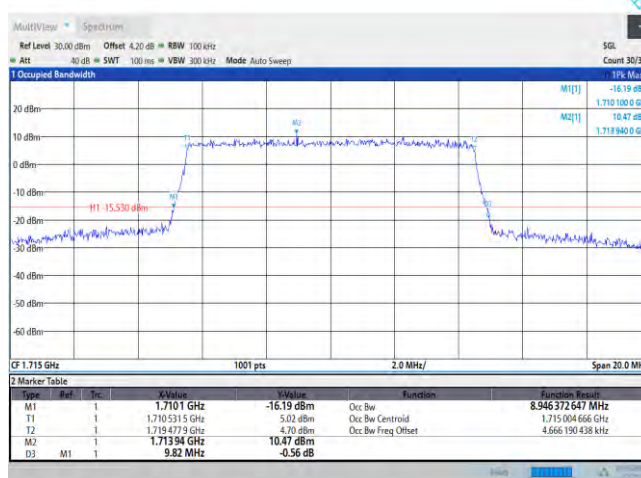
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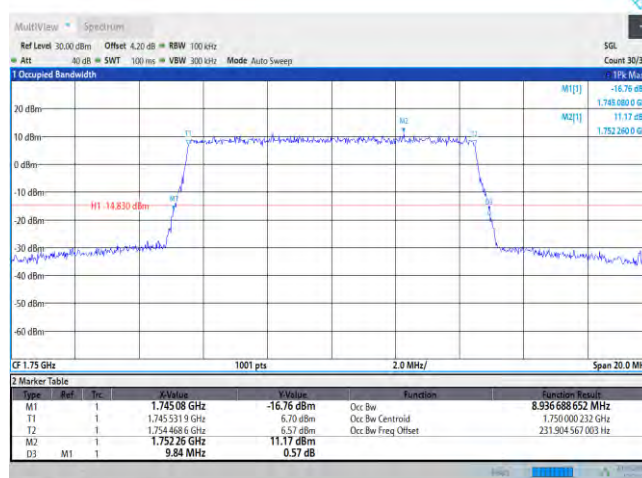
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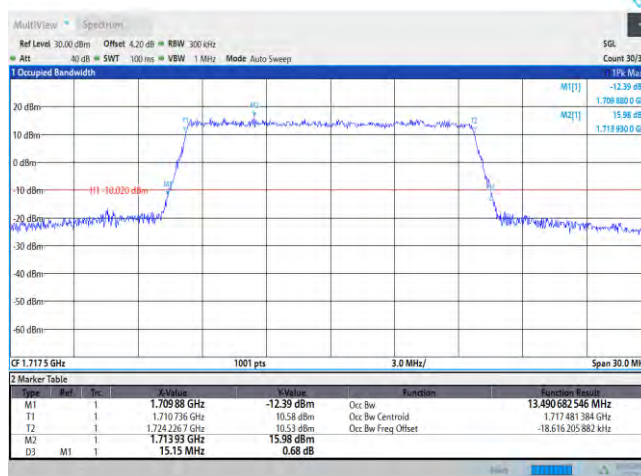
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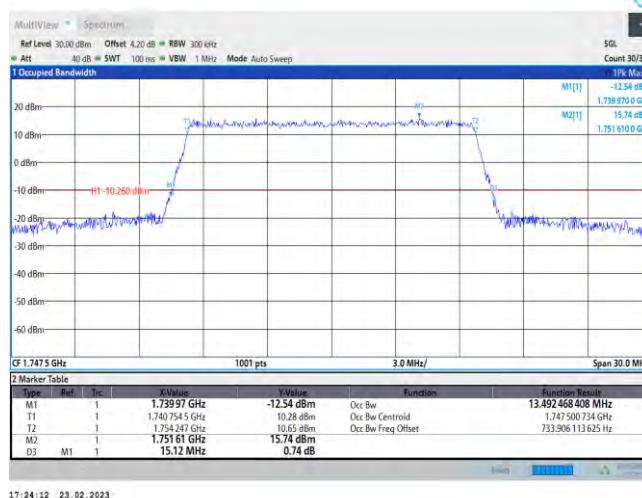
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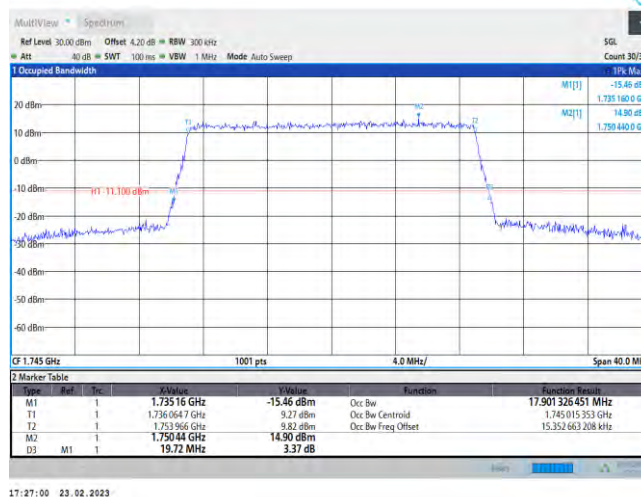
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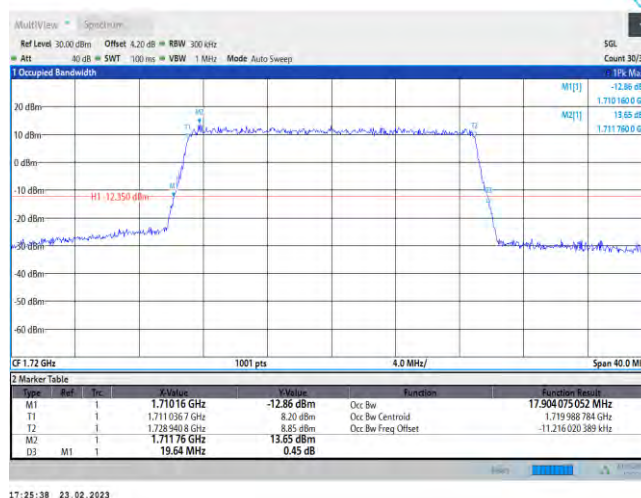
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Band4-20MHz-64QAM-20050-100RB#0



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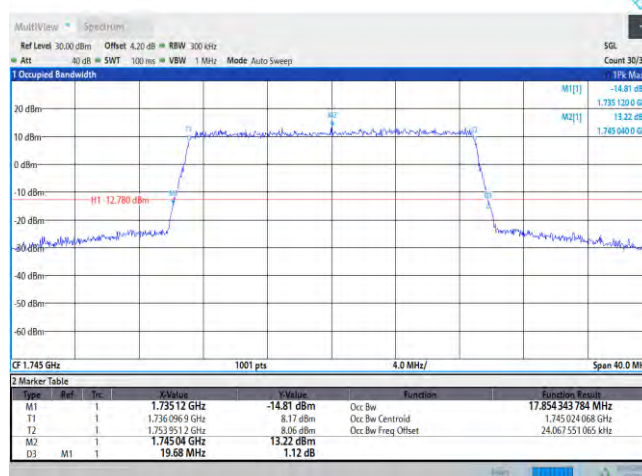
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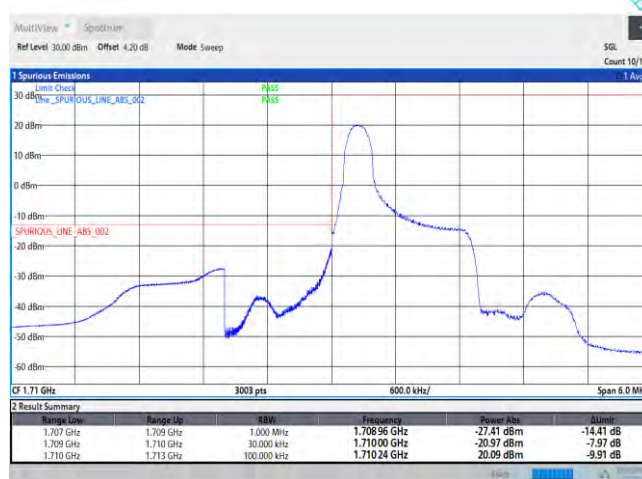
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Band Edge

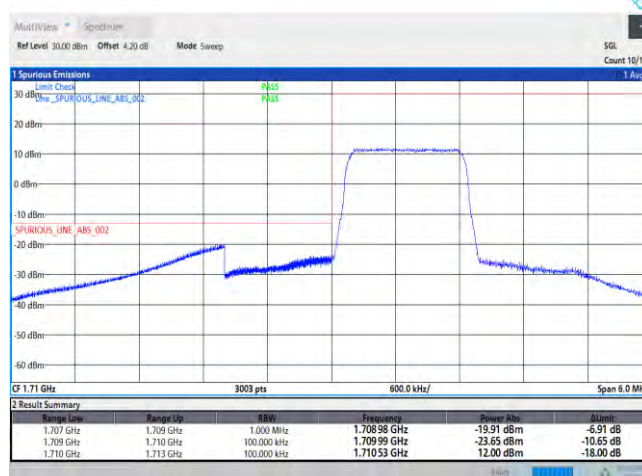
Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



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Band4-1.4MHz-QPSK-19957-6RB#0



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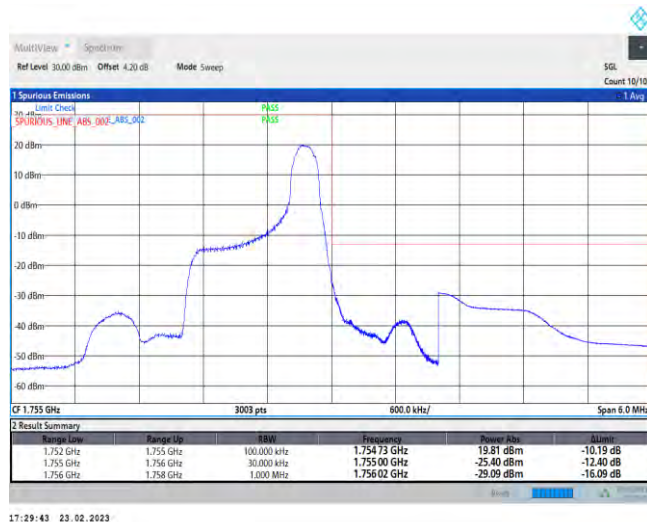
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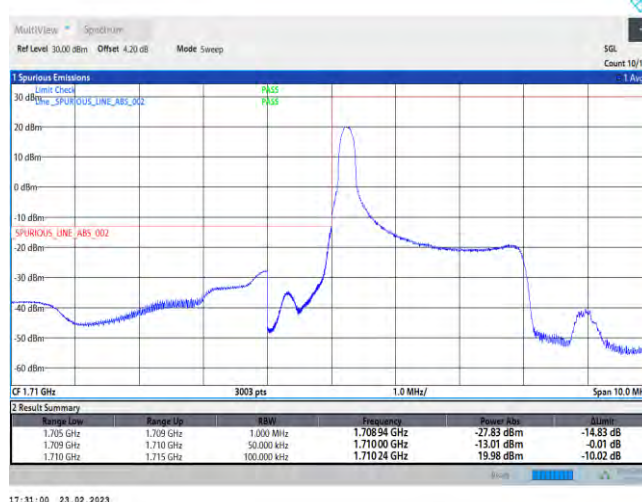
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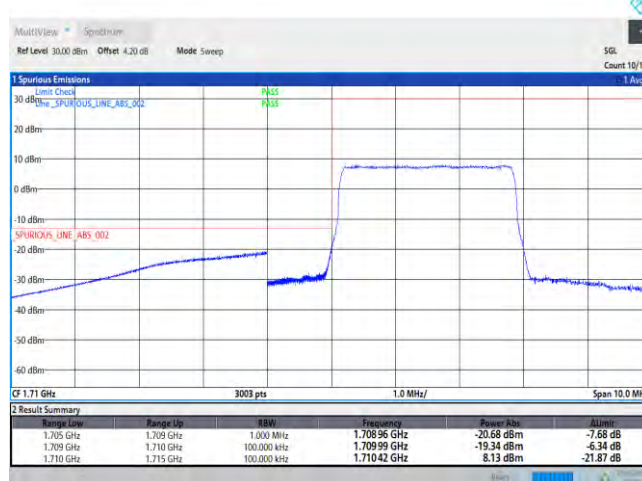
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Band4-3MHz-QPSK-19965-15RB#0



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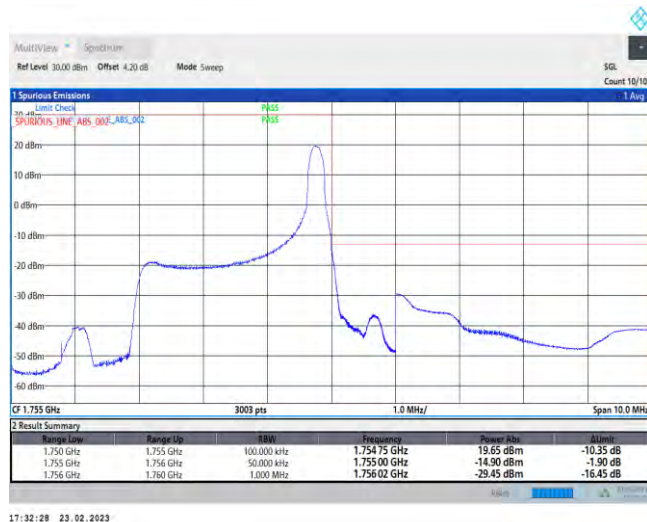
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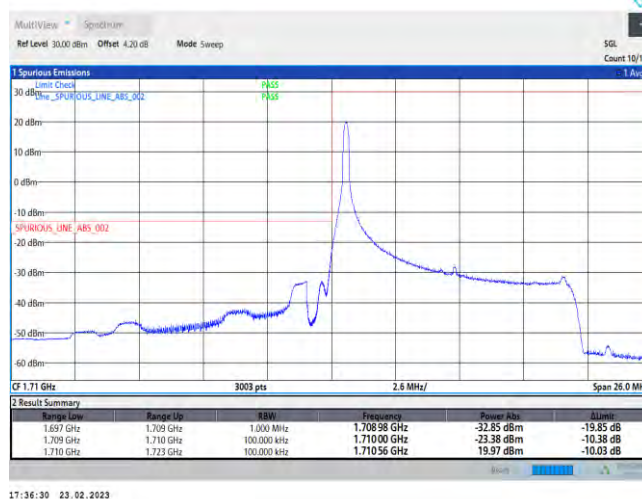
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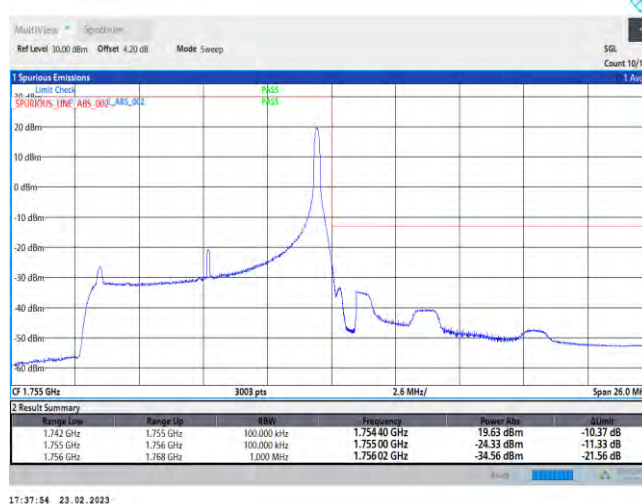
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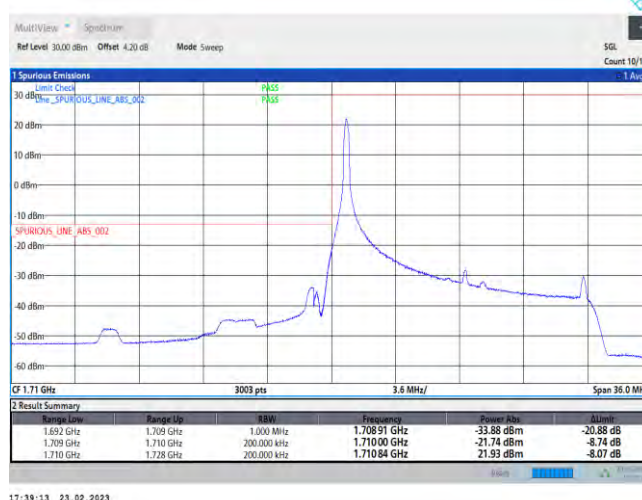
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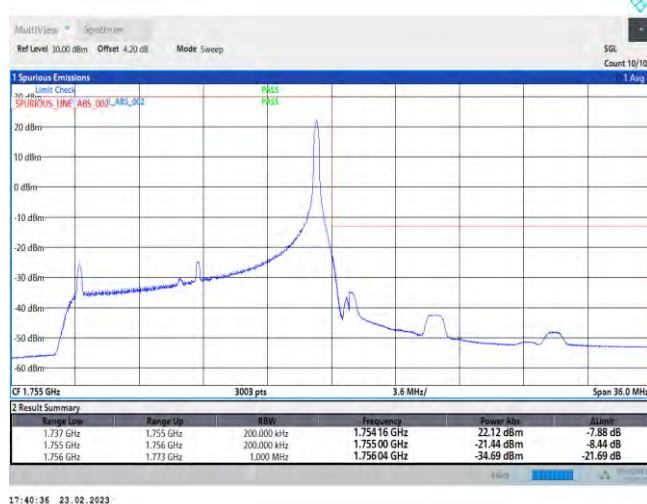
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Band4-15MHz-QPSK-20325-1RB#74



17:40:36 23.02.2023

Band4-15MHz-QPSK-20325-75RB#0



17:41:00 23.02.2023



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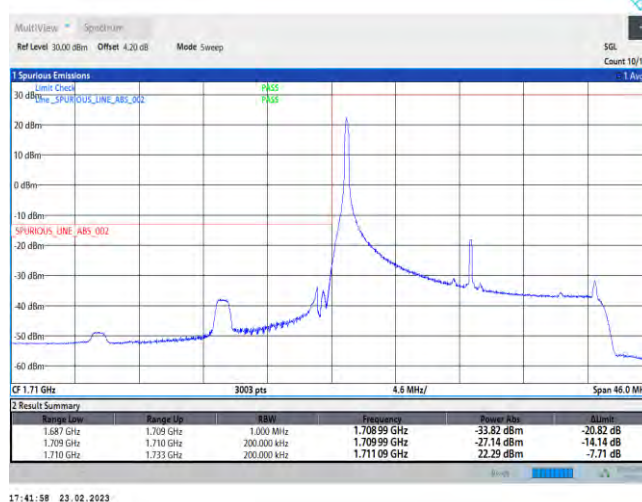
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Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0



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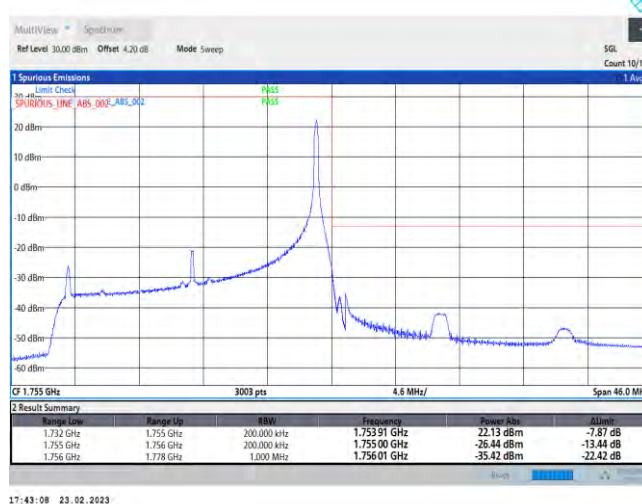
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Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



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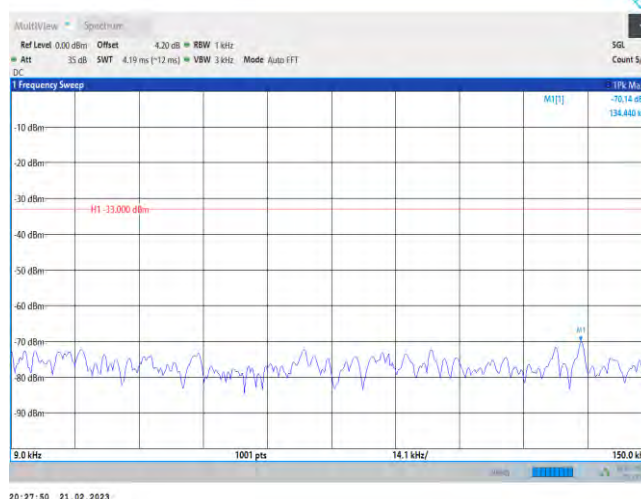
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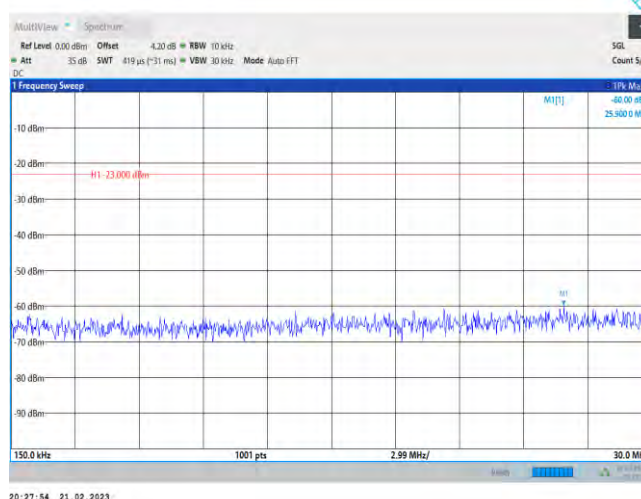
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



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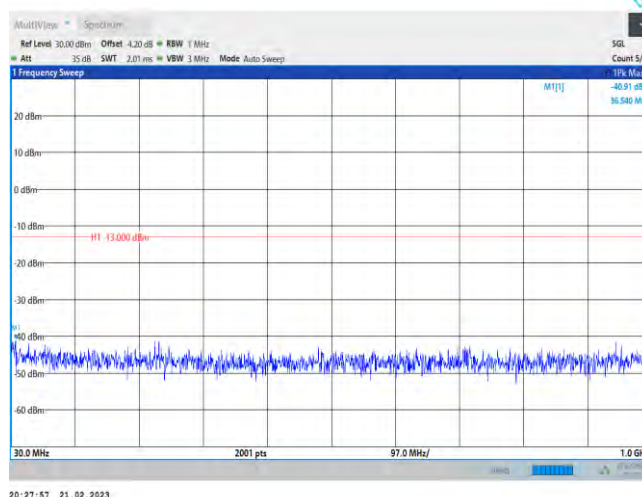
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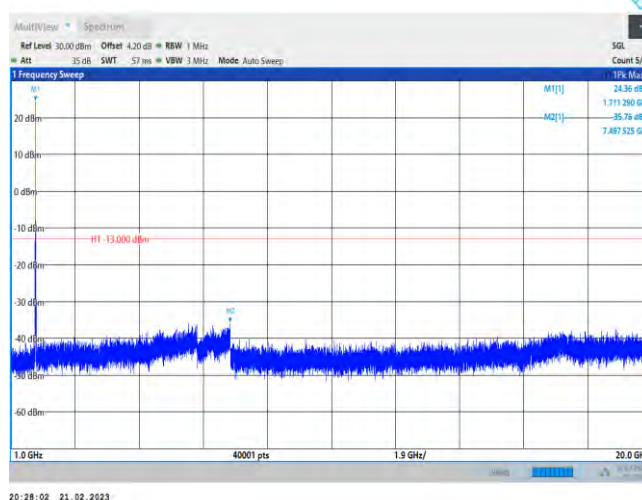
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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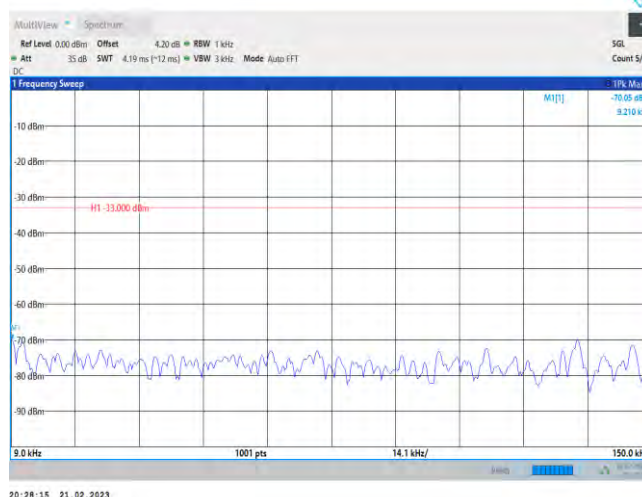
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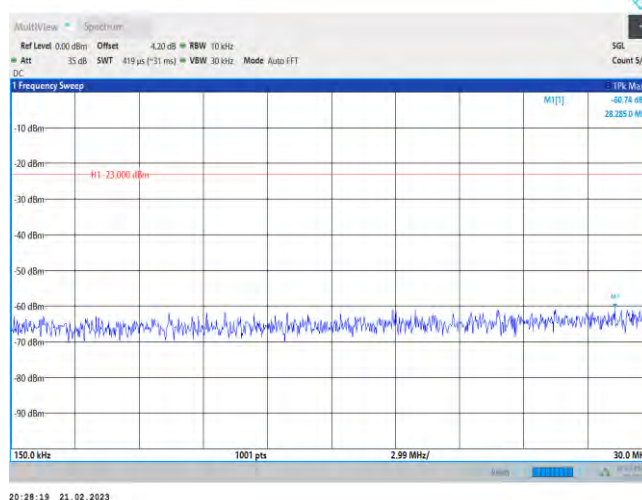
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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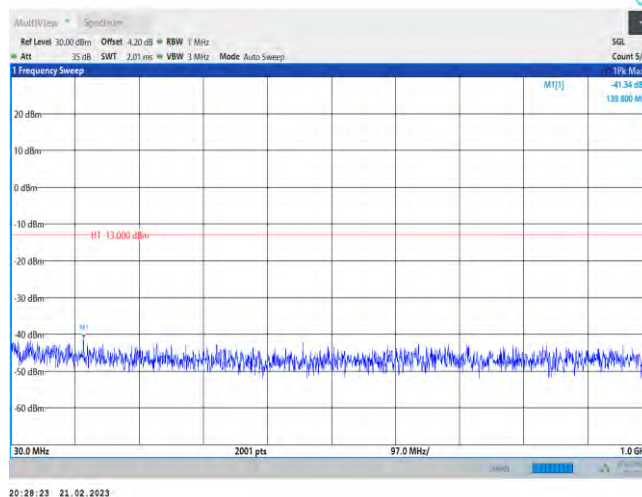
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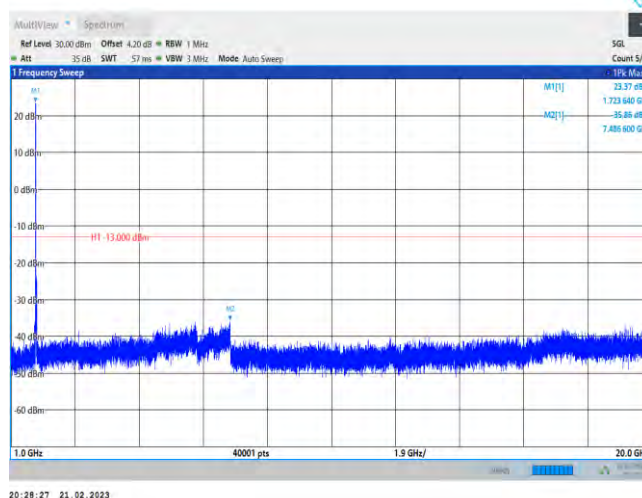
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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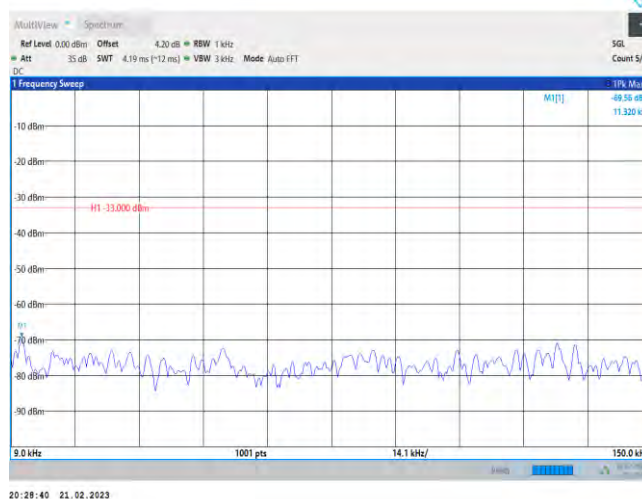
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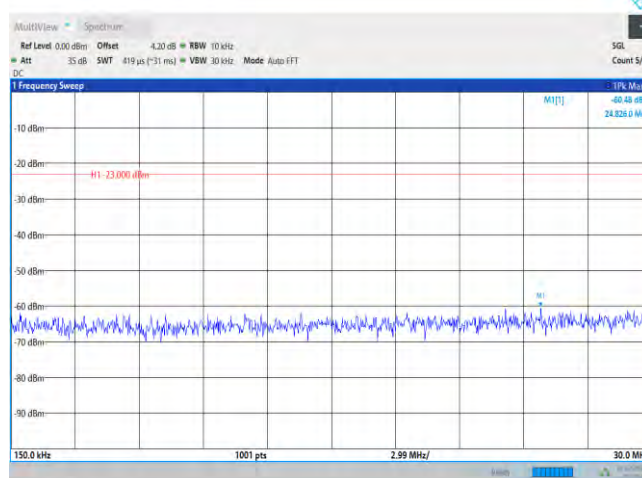
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



20:28:40 21.02.2023

Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



20:28:44 21.02.2023



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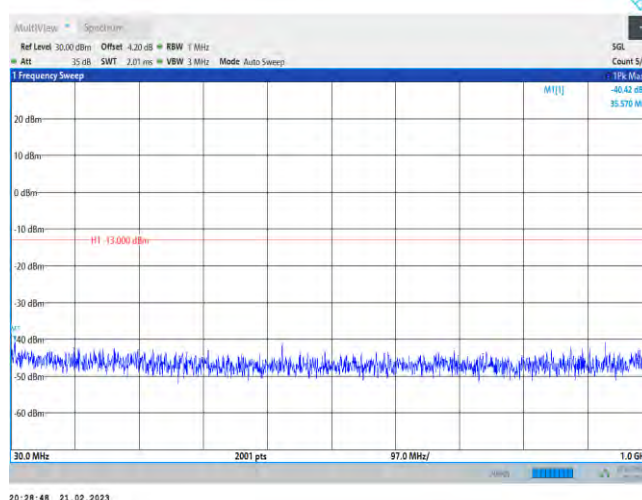
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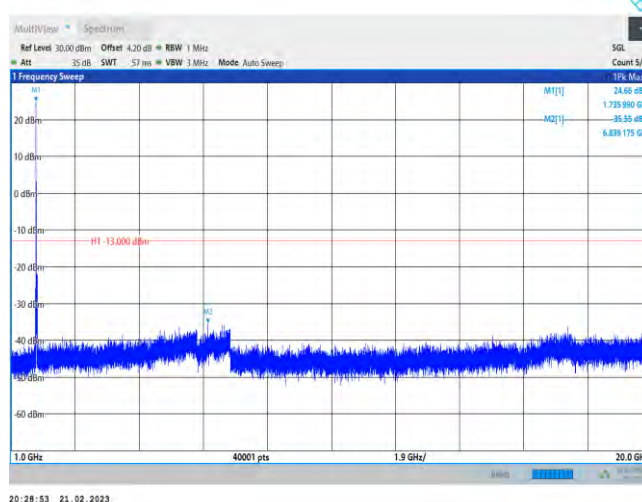
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band4_ 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	3422.1800	44.14	-46.28	29.45	-67.95	-13.00	54.95	164	233	Horizontal
2	5133.2700	40.37	-45.34	32.95	-67.28	-13.00	54.28	178	38	Horizontal
3	6844.3600	40.38	-44.14	35.89	-63.13	-13.00	50.13	163	202	Horizontal
4	8555.4500	38.19	-41.46	37.66	-60.87	-13.00	47.87	203	300	Horizontal
5	10266.5400	35.28	-39.23	38.83	-60.38	-13.00	47.38	159	129	Horizontal
6	11977.6300	33.67	-37.51	38.95	-60.16	-13.00	47.16	188	84	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	3422.1800	43.21	-46.28	29.45	-68.88	-13.00	55.88	162	240	Vertical
2	5133.2700	40.92	-45.34	32.95	-66.73	-13.00	53.73	174	46	Vertical
3	6844.3600	40.39	-44.14	35.89	-63.12	-13.00	50.12	183	151	Vertical
4	8555.4500	38.05	-41.46	37.66	-61.01	-13.00	48.01	169	226	Vertical
5	10266.5400	35.21	-39.23	38.83	-60.45	-13.00	47.45	233	31	Vertical
6	11977.6300	33.99	-37.51	38.95	-59.84	-13.00	46.84	168	286	Vertical



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Test Band = LTE Band4_ 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	3447.1800	44.67	-46.27	29.47	-67.39	-13.00	54.39	163	244	Horizontal
2	5170.7700	40.98	-45.31	32.97	-66.61	-13.00	53.61	196	1	Horizontal
3	6894.3600	40.46	-44.10	35.95	-62.95	-13.00	49.95	203	304	Horizontal
4	8617.9500	37.84	-41.40	37.78	-61.04	-13.00	48.04	154	10	Horizontal
5	10341.5400	36.04	-39.06	38.85	-59.43	-13.00	46.43	185	32	Horizontal
6	12065.1300	33.69	-37.44	39.02	-59.99	-13.00	46.99	178	138	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	3447.1800	44.43	-46.27	29.47	-67.63	-13.00	54.63	176	206	Vertical
2	5170.7700	40.63	-45.31	32.97	-66.96	-13.00	53.96	156	145	Vertical
3	6894.3600	40.38	-44.10	35.95	-63.03	-13.00	50.03	169	145	Vertical
4	8617.9500	38.05	-41.40	37.78	-60.83	-13.00	47.83	205	346	Vertical
5	10341.5400	35.32	-39.06	38.85	-60.15	-13.00	47.15	187	301	Vertical
6	12065.1300	34.39	-37.44	39.02	-59.29	-13.00	46.29	162	356	Vertical



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Test Band = LTE Band4_ 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	3472.1800	43.25	-46.27	29.50	-68.78	-13.00	55.78	168	108	Horizontal
2	5208.2700	40.45	-45.26	32.98	-67.09	-13.00	54.09	195	225	Horizontal
3	6944.3600	40.04	-43.85	36.01	-63.06	-13.00	50.06	156	0	Horizontal
4	8680.4500	38.44	-41.62	37.88	-60.56	-13.00	47.56	163	17	Horizontal
5	10416.5400	35.12	-38.97	38.88	-60.24	-13.00	47.24	203	8	Horizontal
6	12152.6300	34.41	-37.42	39.09	-59.18	-13.00	46.18	158	196	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	3472.1800	43.17	-46.27	29.50	-68.86	-13.00	55.86	153	226	Vertical
2	5208.2700	40.81	-45.26	32.98	-66.73	-13.00	53.73	168	31	Vertical
3	6944.3600	40.09	-43.85	36.01	-63.01	-13.00	50.01	192	226	Vertical
4	8680.4500	38.90	-41.62	37.88	-60.10	-13.00	47.10	213	256	Vertical
5	10416.5400	34.57	-38.97	38.88	-60.79	-13.00	47.79	185	3	Vertical
6	12152.6300	34.75	-37.42	39.09	-58.84	-13.00	45.84	195	0	Vertical



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Test Band = LTE 4A_5A_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	1649.1800	28.47	-24.82	25.37	-66.24	-13.00	53.24	143	233	Horizontal
2	2473.7700	28.88	-23.55	27.68	-62.24	-13.00	49.24	184	357	Horizontal
3	3298.3600	42.72	-46.45	29.56	-69.43	-13.00	56.43	172	360	Horizontal
4	3422.1800	42.70	-46.28	29.45	-69.39	-13.00	56.39	221	357	Horizontal
5	5133.2700	40.42	-45.34	32.95	-67.23	-13.00	54.23	163	13	Horizontal
6	6844.3600	40.09	-44.14	35.89	-63.42	-13.00	50.42	205	360	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	1649.1800	28.78	-24.82	25.37	-65.93	-13.00	52.93	165	3	Vertical
2	2473.7700	28.94	-23.55	27.68	-62.18	-13.00	49.18	222	356	Vertical
3	3298.3600	42.47	-46.45	29.56	-69.68	-13.00	56.68	179	151	Vertical
4	3422.1800	42.73	-46.28	29.45	-69.36	-13.00	56.36	236	271	Vertical
5	5133.2700	39.85	-45.34	32.95	-67.80	-13.00	54.80	201	91	Vertical
6	6844.3600	40.57	-44.14	35.89	-62.94	-13.00	49.94	185	105	Vertical



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Test Band = LTE 4A_5A_ 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	1664.1800	28.49	-24.78	25.38	-66.18	-13.00	53.18	158	0	Horizontal
2	2496.2700	29.11	-23.54	27.76	-61.93	-13.00	48.93	203	55	Horizontal
3	3328.3600	42.21	-46.41	29.52	-69.94	-13.00	56.94	177	359	Horizontal
4	3447.1800	42.67	-46.27	29.47	-69.39	-13.00	56.39	215	4	Horizontal
5	5170.7700	40.38	-45.31	32.97	-67.21	-13.00	54.21	266	343	Horizontal
6	6894.3600	38.91	-44.10	35.95	-64.50	-13.00	51.50	184	4	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	1664.1800	29.03	-24.78	25.38	-65.64	-13.00	52.64	161	5	Vertical
2	2496.2700	29.01	-23.54	27.76	-62.03	-13.00	49.03	211	0	Vertical
3	3328.3600	42.29	-46.41	29.52	-69.86	-13.00	56.86	187	335	Vertical
4	3447.1800	42.91	-46.27	29.47	-69.15	-13.00	56.15	146	257	Vertical
5	5170.7700	40.04	-45.31	32.97	-67.55	-13.00	54.55	185	48	Vertical
6	6894.3600	39.12	-44.10	35.95	-64.29	-13.00	51.29	199	48	Vertical



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Test Band = LTE 4A_5A_ 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	1679.1800	33.10	-24.75	25.38	-61.53	-13.00	48.53	193	312	Horizontal
2	2518.7700	28.96	-23.40	27.83	-61.87	-13.00	48.87	241	225	Horizontal
3	3358.3600	42.63	-46.35	29.48	-69.50	-13.00	56.50	186	28	Horizontal
4	3472.1800	42.56	-46.27	29.50	-69.47	-13.00	56.47	223	74	Horizontal
5	5208.2700	40.94	-45.26	32.98	-66.60	-13.00	53.60	156	148	Horizontal
6	6944.3600	39.54	-43.85	36.01	-63.56	-13.00	50.56	172	352	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	1679.1800	34.19	-24.75	25.38	-60.44	-13.00	47.44	163	261	Vertical
2	2518.7700	29.14	-23.40	27.83	-61.69	-13.00	48.69	255	2	Vertical
3	3358.3600	41.99	-46.35	29.48	-70.14	-13.00	57.14	171	3	Vertical
4	3472.1800	42.21	-46.27	29.50	-69.82	-13.00	56.82	224	225	Vertical
5	5208.2700	40.25	-45.26	32.98	-67.29	-13.00	54.29	196	360	Vertical
6	6944.3600	39.93	-43.85	36.01	-63.17	-13.00	50.17	283	75	Vertical



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Test Band = LTE 4A_7A_ 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	3422.1800	52.10	-46.28	29.45	-59.99	-25.00	34.99	154	299	Horizontal
2	5002.1800	40.27	-45.63	32.88	-67.74	-25.00	42.74	236	59	Horizontal
3	5133.2700	41.15	-45.34	32.95	-66.50	-25.00	41.50	185	151	Horizontal
4	6844.3600	40.11	-44.14	35.89	-63.40	-25.00	38.40	196	179	Horizontal
5	7503.2700	39.09	-43.13	36.44	-62.86	-25.00	37.86	225	360	Horizontal
6	10004.3600	34.72	-39.23	38.50	-61.28	-25.00	36.28	147	87	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	3422.1800	56.73	-46.28	29.45	-55.36	-25.00	30.36	215	210	Vertical
2	4999.5	45.47	-45.64	32.88	-62.55	-25.00	37.55	263	299	Vertical
3	5133.2700	40.41	-45.34	32.95	-67.24	-25.00	42.24	205	256	Vertical
4	6844.3600	40.12	-44.14	35.89	-63.39	-25.00	38.39	169	73	Vertical
5	7503.2700	38.95	-43.13	36.44	-63.00	-25.00	38.00	138	118	Vertical
6	10004.3600	34.62	-39.23	38.50	-61.38	-25.00	36.38	214	178	Vertical



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Test Band = LTE 4A_7A_ 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	3447	53.50	-46.27	29.47	-58.56	-25.00	33.56	174	283	Horizontal
2	5052.1800	40.64	-45.50	32.91	-67.21	-25.00	42.21	193	357	Horizontal
3	5170.7700	40.56	-45.31	32.97	-67.03	-25.00	42.03	215	360	Horizontal
4	6894.3600	39.78	-44.10	35.95	-63.63	-25.00	38.63	221	312	Horizontal
5	7578.2700	38.52	-42.97	36.40	-63.31	-25.00	38.31	165	117	Horizontal
6	10104.3600	34.51	-39.14	38.66	-61.23	-25.00	36.23	209	207	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	3447	58.20	-46.27	29.47	-53.86	-25.00	28.86	183	242	Vertical
2	4997.25	45.24	-45.64	32.87	-62.78	-25.00	37.78	208	123	Vertical
3	5170.7700	41.31	-45.31	32.97	-66.28	-25.00	41.28	197	30	Vertical
4	6894.3600	39.74	-44.10	35.95	-63.67	-25.00	38.67	225	92	Vertical
5	7578.2700	38.84	-42.97	36.40	-62.99	-25.00	37.99	168	242	Vertical
6	10104.3600	34.57	-39.14	38.66	-61.17	-25.00	36.17	173	30	Vertical



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Test Band = LTE 4A_7A_ 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	3472.1800	52.41	-46.27	29.50	-59.62	-25.00	34.62	252	286	Horizontal
2	5102.1800	40.85	-45.37	32.94	-66.84	-25.00	41.84	186	17	Horizontal
3	5208.2700	40.61	-45.26	32.98	-66.93	-25.00	41.93	165	105	Horizontal
4	6944.3600	39.71	-43.85	36.01	-63.39	-25.00	38.39	204	3	Horizontal
5	7653.2700	39.29	-43.03	36.49	-62.51	-25.00	37.51	213	75	Horizontal
6	10204.3600	34.87	-39.48	38.81	-61.06	-25.00	36.06	166	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	3472.1800	59.01	-46.27	29.50	-53.02	-25.00	28.02	185	240	Vertical
2	5102.1800	40.30	-45.37	32.94	-67.39	-25.00	42.39	158	360	Vertical
3	5208.2700	41.14	-45.26	32.98	-66.40	-25.00	41.40	206	60	Vertical
4	6944.3600	40.09	-43.85	36.01	-63.01	-25.00	38.01	147	343	Vertical
5	7653.2700	39.36	-43.03	36.49	-62.44	-25.00	37.44	203	60	Vertical
6	10204.3600	33.98	-39.48	38.81	-61.95	-25.00	36.95	167	224	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
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-0.40	-0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-1.70	-0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.80	0.000462	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-2.00	-0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.20	-0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.60	-0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.60	-0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	1.50	0.000866	PASS

---End of Attachment---



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