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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	24.39	23.09	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.45	23.15	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.94	22.64	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.35	22.05	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.95	22.65	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.91	22.61	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.95	22.65	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.38	22.08	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	24.09	22.79	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.12	22.82	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.09	22.79	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.52	22.22	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.57	22.27	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.38	22.08	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23	21.7	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.42	21.12	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.02	21.72	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.17	21.87	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.17	21.87	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.46	21.16	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.3	22	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.23	21.93	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.28	21.98	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.61	21.31	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.47	21.17	30	PASS



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Band4	1.4MHz	64QAM	19957	1RB#2	22.4	21.1	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.03	20.73	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	21.36	20.06	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.14	20.84	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.98	20.68	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	22.09	20.79	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.36	20.06	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	22.18	20.88	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.24	20.94	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	22.1	20.8	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	21.49	20.19	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.44	23.14	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.49	23.19	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.97	22.67	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.38	22.08	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.95	22.65	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.94	22.64	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.93	22.63	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.39	22.09	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.05	22.75	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.11	22.81	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.1	22.8	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.54	22.24	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.46	22.16	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.08	21.78	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.14	21.84	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.41	21.11	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.19	21.89	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.11	21.81	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.07	21.77	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.41	21.11	30	PASS



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Band4	3MHz	16QAM	20385	1RB#0	23.22	21.92	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.22	21.92	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.28	21.98	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.6	21.3	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	22.55	21.25	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.08	20.78	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	22.05	20.75	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.36	20.06	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	22	20.7	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	22.07	20.77	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.01	20.71	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.36	20.06	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	22.08	20.78	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.18	20.88	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.15	20.85	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	21.53	20.23	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	24.49	23.19	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.04	22.74	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	24	22.7	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.38	22.08	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	24	22.7	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.04	22.74	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.98	22.68	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.44	22.14	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	24.11	22.81	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.13	22.83	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	24.14	22.84	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.57	22.27	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.52	22.22	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.03	21.73	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.08	21.78	30	PASS



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Band4	5MHz	16QAM	19975	25RB#0	22.44	21.14	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.12	21.82	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.08	21.78	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.19	21.89	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.47	21.17	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.32	22.02	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.3	22	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.24	21.94	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.56	21.26	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.03	20.73	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	22.01	20.71	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	22	20.7	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.38	20.08	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	22.01	20.71	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.08	20.78	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	22.05	20.75	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	21.4	20.1	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	22.16	20.86	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.18	20.88	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	22.19	20.89	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	21.61	20.31	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	24.4	23.1	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.22	22.92	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.37	23.07	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.38	22.08	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.95	22.65	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.96	22.66	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.98	22.68	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.42	22.12	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	24	22.7	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.09	22.79	30	PASS



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Band4	10MHz	QPSK	20350	1RB#49	24.13	22.83	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.56	22.26	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.57	22.27	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.07	21.77	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.14	21.84	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.39	21.09	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.2	21.9	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.13	21.83	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.11	21.81	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.41	21.11	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.16	21.86	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.26	21.96	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.22	21.92	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.54	21.24	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.47	21.17	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.98	20.68	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.07	20.77	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.37	20.07	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	22.02	20.72	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.05	20.75	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.01	20.71	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.42	20.12	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	22.09	20.79	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.16	20.86	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.13	20.83	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.53	20.23	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	24.29	22.99	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.91	22.61	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.86	22.56	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.33	22.03	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.87	22.57	30	PASS



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Band4	15MHz	QPSK	20175	1RB#38	23.93	22.63	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.98	22.68	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.38	22.08	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.89	22.59	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.07	22.77	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.07	22.77	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.46	22.16	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.44	22.14	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.08	21.78	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.04	21.74	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.35	21.05	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.01	21.71	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.2	21.9	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.2	21.9	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.4	21.1	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.15	21.85	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.17	21.87	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.21	21.91	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.48	21.18	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.84	20.54	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.98	20.68	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.95	20.65	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.3	20	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.94	20.64	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.02	20.72	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	22.05	20.75	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	21.33	20.03	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.99	20.69	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.08	20.78	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	22.13	20.83	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.49	20.19	30	PASS



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Band4	20MHz	QPSK	20050	1RB#0	24.23	22.93	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.91	22.61	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.9	22.6	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.33	22.03	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.75	22.45	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.97	22.67	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.95	22.65	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.42	22.12	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.79	22.49	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.03	22.73	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	24.05	22.75	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.49	22.19	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.37	22.07	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.01	21.71	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.05	21.75	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.38	21.08	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.93	21.63	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.11	21.81	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.17	21.87	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.41	21.11	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.01	21.71	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.19	21.89	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.17	21.87	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.46	21.16	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.82	20.52	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.98	20.68	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.05	20.75	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.32	20.02	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.81	20.51	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.03	20.73	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22	20.7	30	PASS



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Band4	20MHz	64QAM	20175	100RB#0	21.37	20.07	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.88	20.58	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.09	20.79	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.16	20.86	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.46	20.16	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	4.86	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.98	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.96	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.60	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.78	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.82	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.14	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.30	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.32	13	PASS



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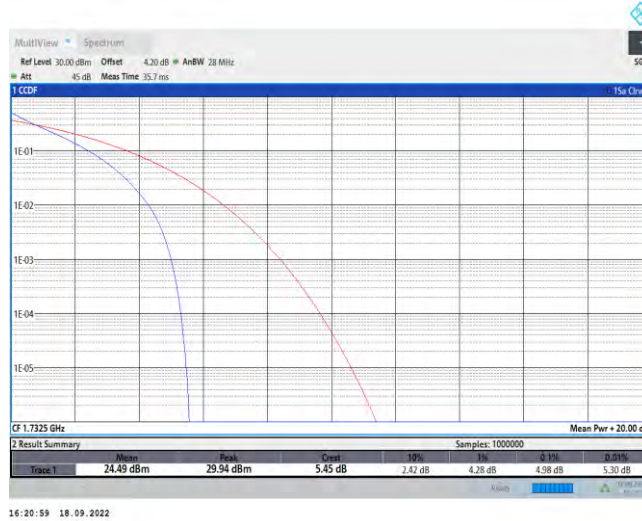
Test Graphs

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



16:19:44 18.09.2022

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



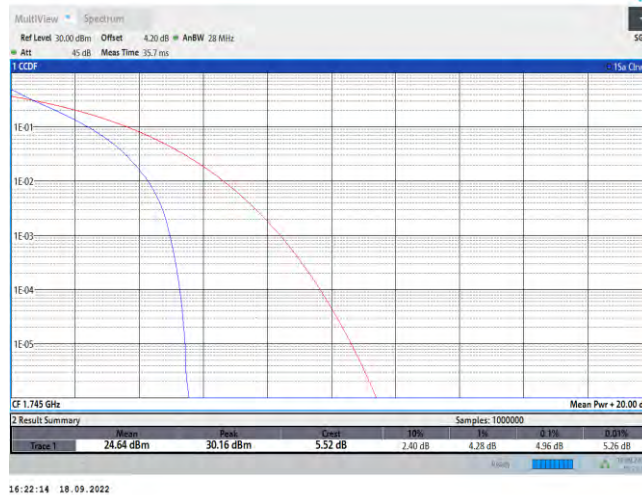
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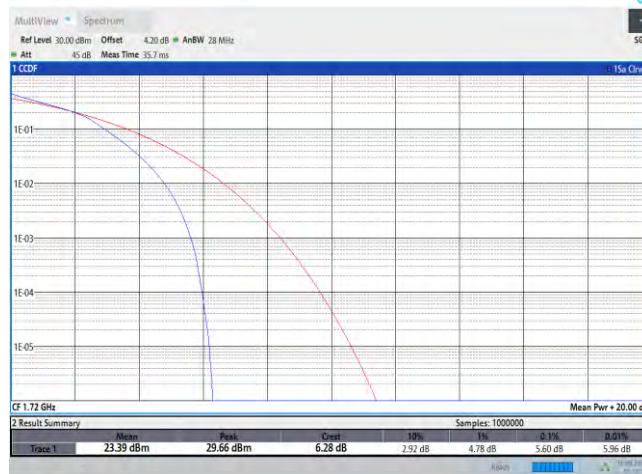
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Band4-20MHz-QPSK-20300-100RB#0



16:22:14 18.09.2022

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



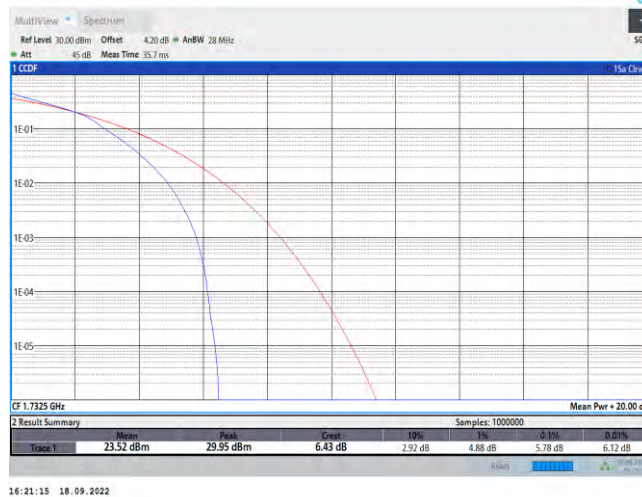
16:20:00 18.09.2022



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



16:21:15 18.09.2022

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



16:22:31 18.09.2022

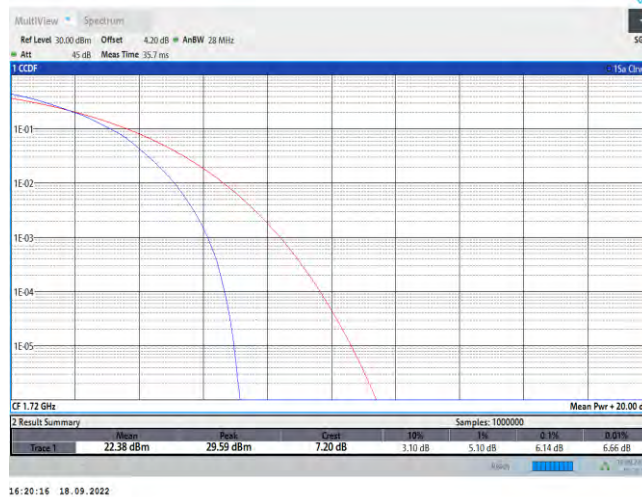


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Band4-20MHz-64QAM-20050-100RB#0



16:20:16 18.09.2022

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



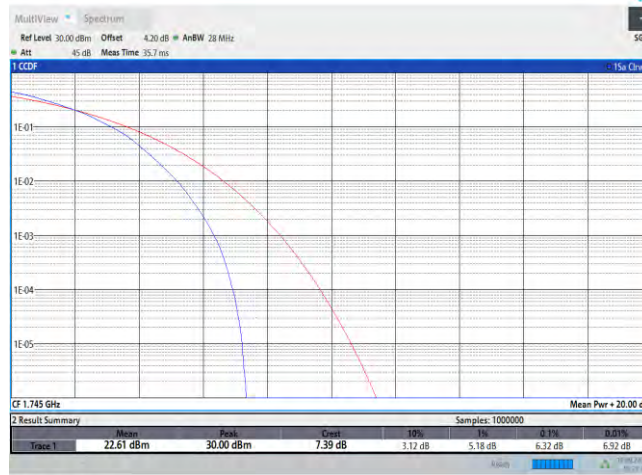
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Band4-20MHz-64QAM-20300-100RB#0



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Report No.: SEWM2209000170RG01
 Rev.: 01
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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

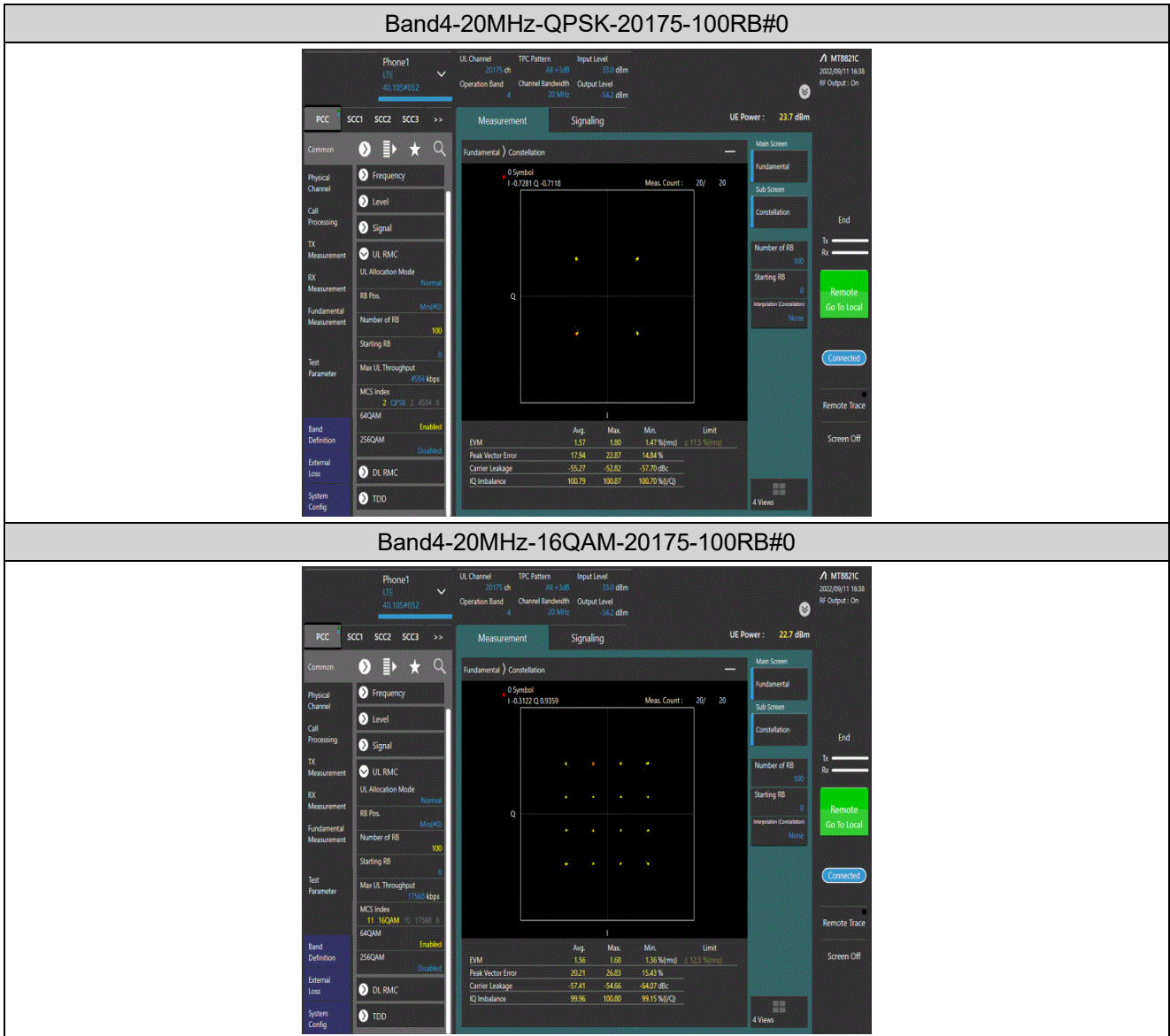


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Test Graphs

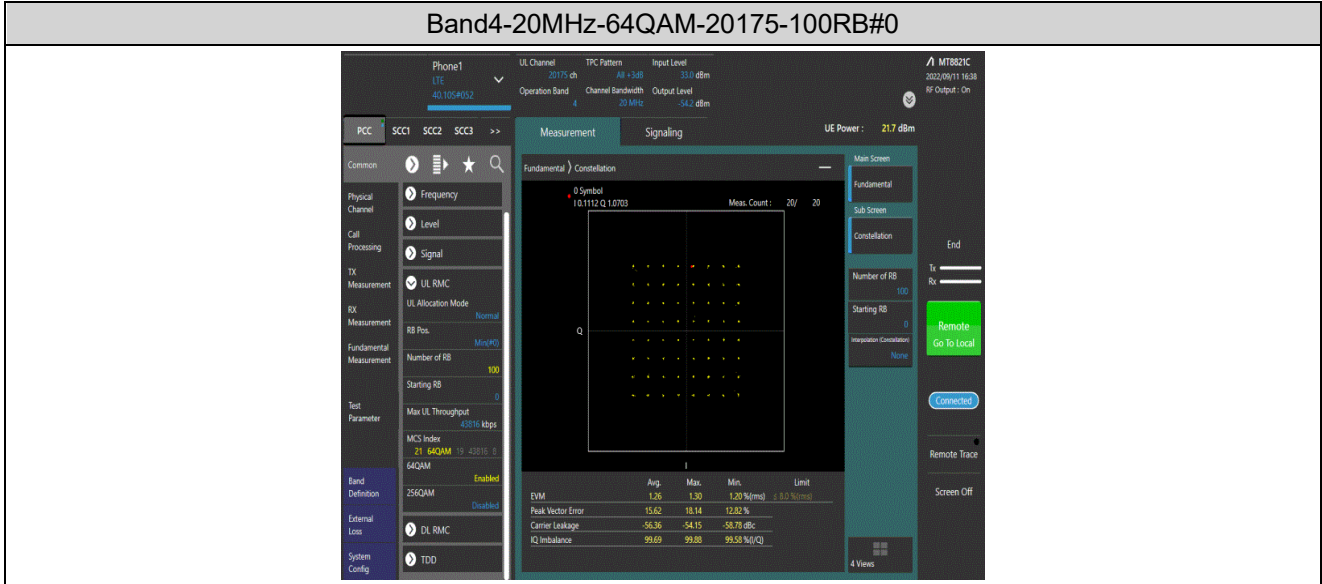


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.086	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.086	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.087	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.101	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.099	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.1	1.31	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.098	1.31	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.097	1.32	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.692	2.92	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.69	2.92	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.93	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.682	2.93	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.681	2.92	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.684	2.92	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.687	2.92	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.684	2.92	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.686	2.92	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.472	4.86	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.471	4.84	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.47	4.87	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.466	4.92	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.464	4.91	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.465	4.92	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.477	4.88	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.477	4.88	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.477	4.87	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.66	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.922	9.62	PASS



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 Rev.: 01
 Page: 20 of 81

Band4	10MHz	QPSK	20350	50RB#0	8.929	9.66	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.923	9.62	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.914	9.56	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.924	9.64	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.93	9.64	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.92	9.66	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.62	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.469	14.79	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.475	14.73	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.461	14.76	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.73	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.459	15.09	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.447	14.67	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.42	14.73	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.437	14.79	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.432	14.73	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.925	19.48	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.903	19.48	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.875	19.32	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.887	19.40	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.899	19.32	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.878	19.28	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.881	19.48	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.896	19.36	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.887	19.44	PASS



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Test Graphs

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



15:58:33 18.09.2022

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



15:59:25 18.09.2022



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Band4-1.4MHz-QPSK-20393-6RB#0



16:00:17 18.09.2022

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



15:58:51 18.09.2022



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Band4-1.4MHz-16QAM-20175-6RB#0



15:59:42 18.09.2022

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



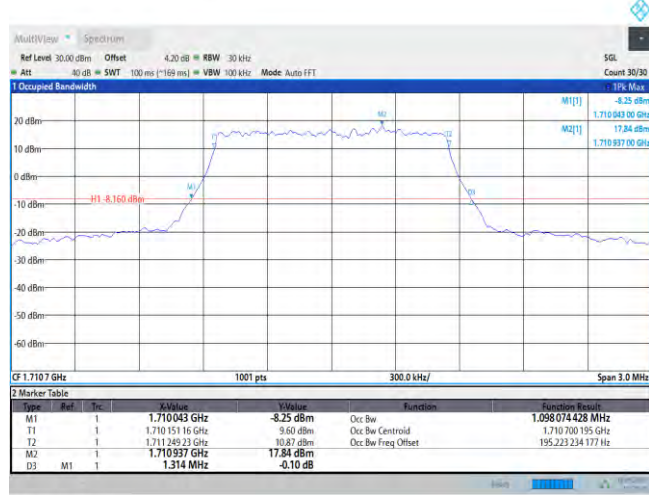
16:00:34 18.09.2022



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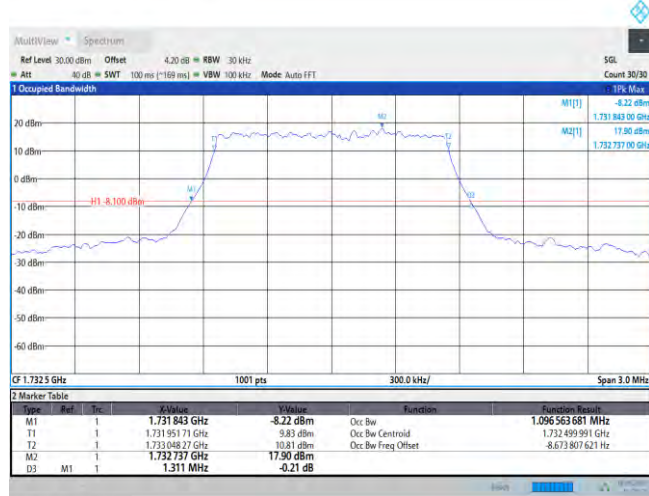
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Band4-1.4MHz-64QAM-19957-6RB#0



15:59:08 18.09.2022

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



15:59:59 18.09.2022



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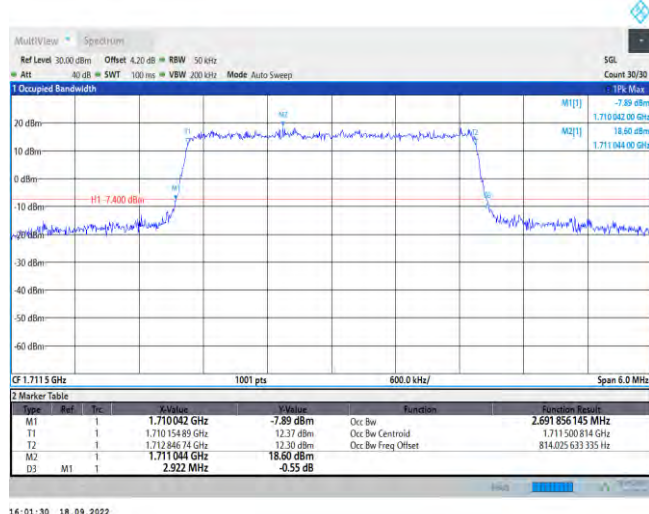
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Band4-1.4MHz-64QAM-20393-6RB#0



16:00:51 18.09.2022

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



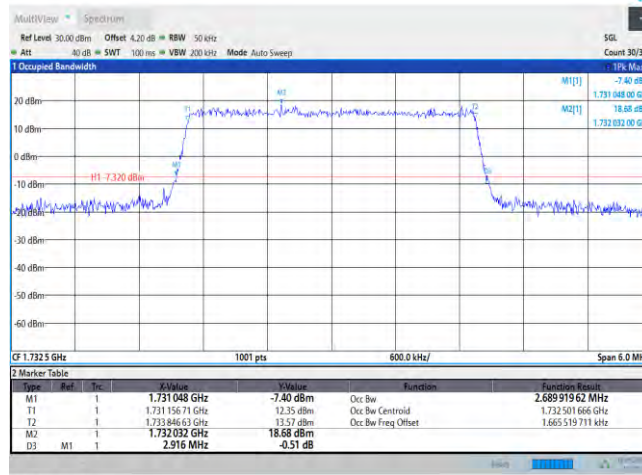
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Band4-3MHz-QPSK-20175-15RB#0



16:02:19 18.09.2022

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



16:03:07 18.09.2022



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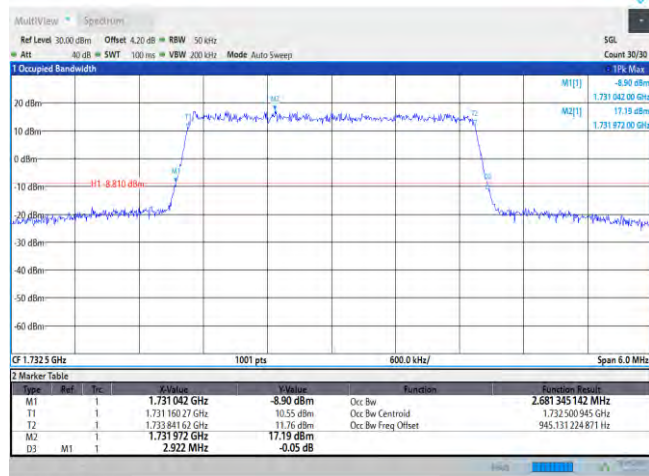
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Band4-3MHz-16QAM-19965-15RB#0



16:01:46 18.09.2022

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



16:02:35 18.09.2022



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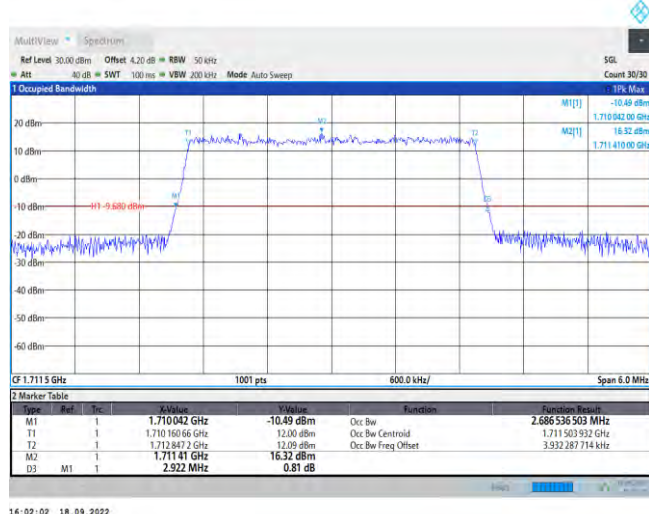
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Band4-3MHz-16QAM-20385-15RB#0



16:03:23 18.09.2022

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



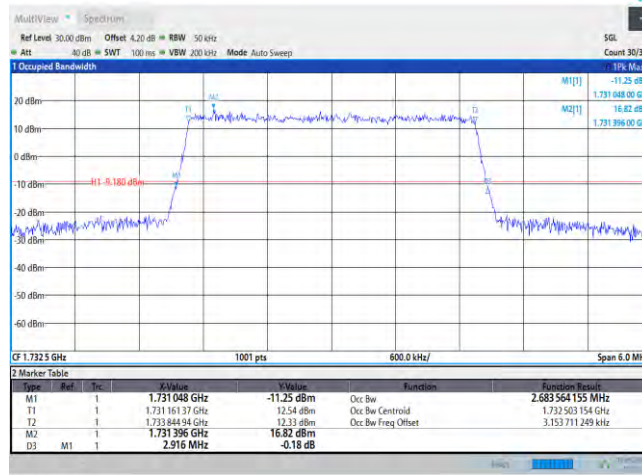
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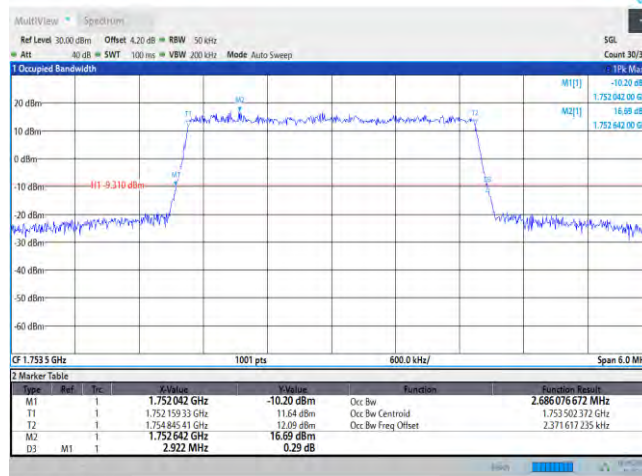
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Band4-3MHz-64QAM-20175-15RB#0



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



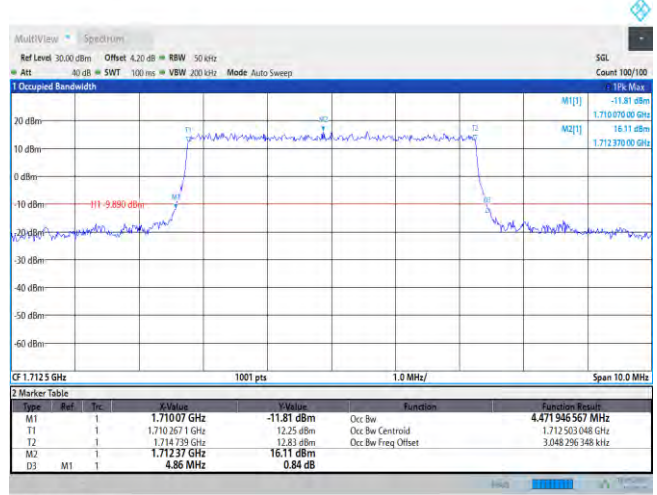
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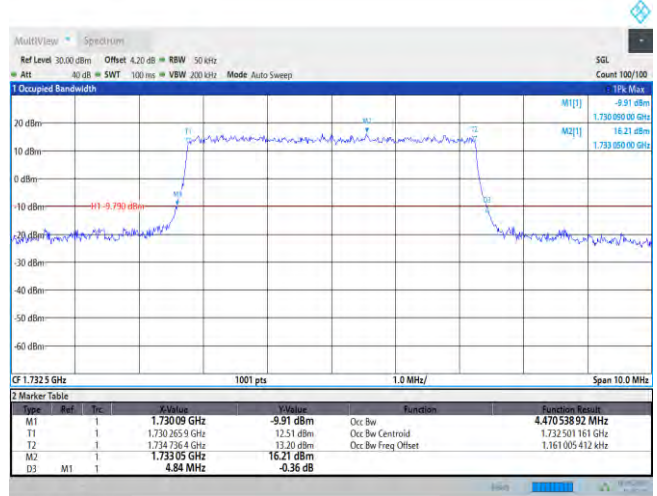
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Band4-5MHz-QPSK-19975-25RB#0



16:04:28 18.09.2022

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



16:05:37 18.09.2022



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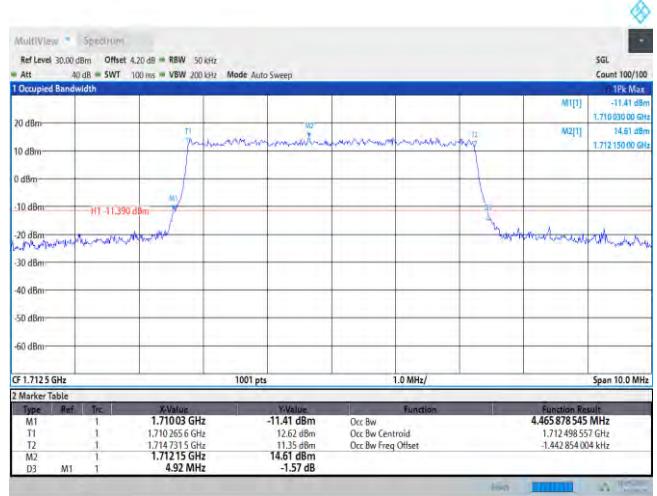
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Band4-5MHz-QPSK-20375-25RB#0



16:06:47 18.09.2022

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



16:04:51 18.09.2022



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Band4-5MHz-16QAM-20175-25RB#0



16:06:00 18.09.2022

Band4-5MHz-16QAM-20375-25RB#0



16:07:10 18.09.2022



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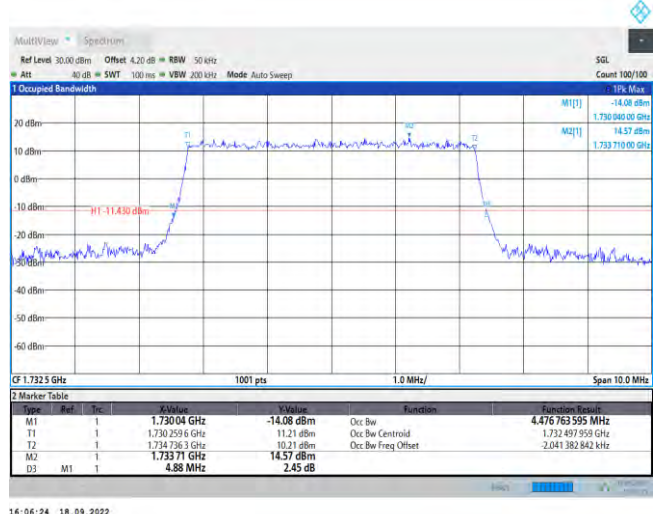
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Band4-5MHz-64QAM-19975-25RB#0



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Band4-5MHz-64QAM-20175-25RB#0



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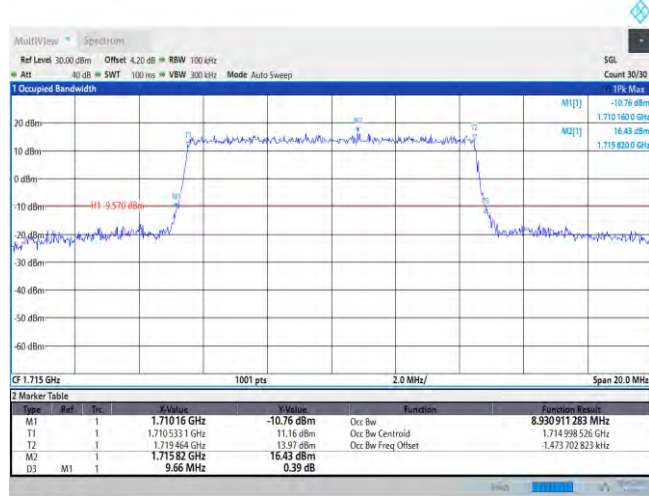
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Band4-5MHz-64QAM-20375-25RB#0



16:07:33 18.09.2022

Band4-10MHz-QPSK-20000-50RB#0



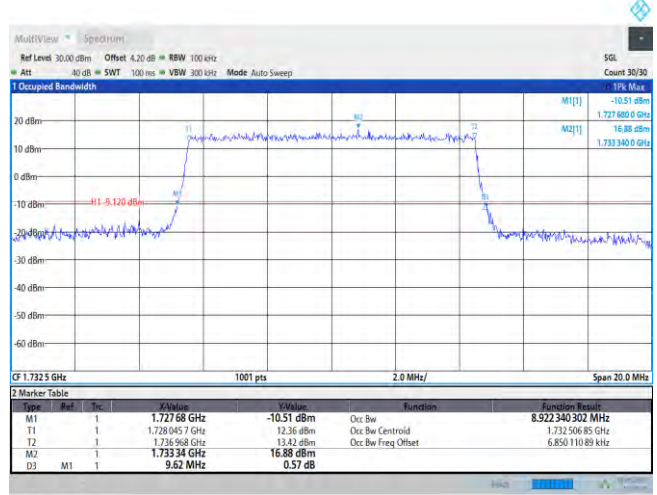
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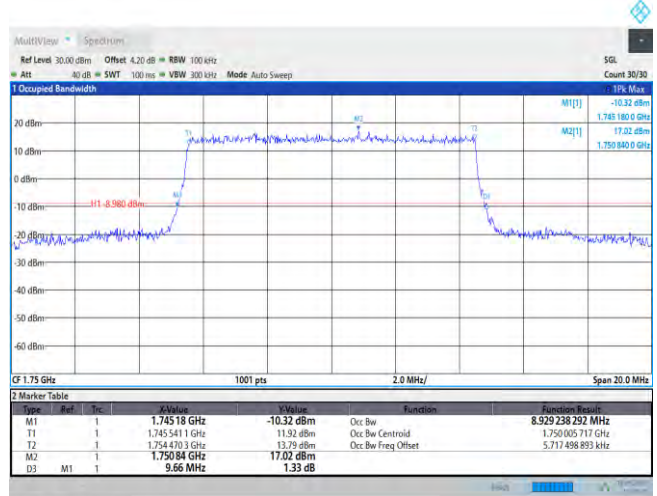
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Band4-10MHz-QPSK-20175-50RB#0



16:09:01 18.09.2022

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



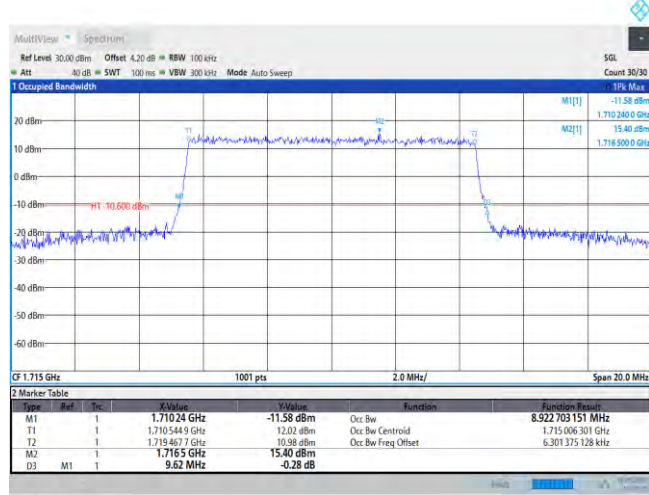
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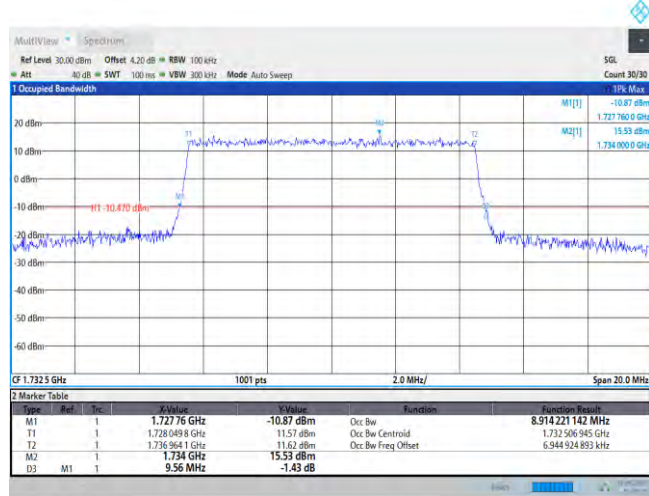
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Band4-10MHz-16QAM-20000-50RB#0



16:08:29 18.09.2022

Band4-10MHz-16QAM-20175-50RB#0



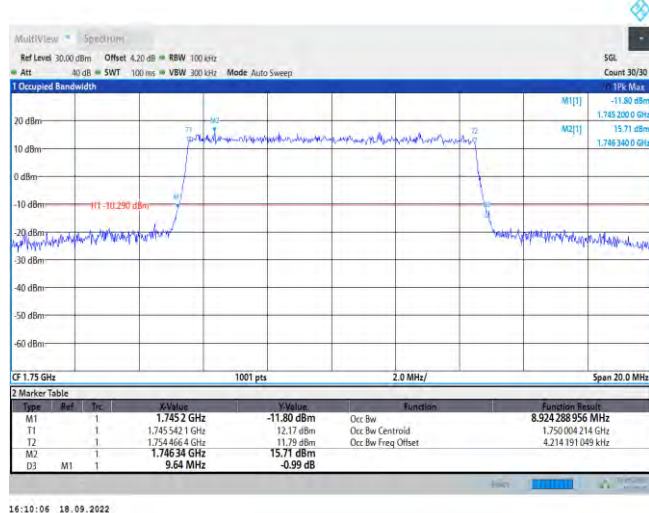
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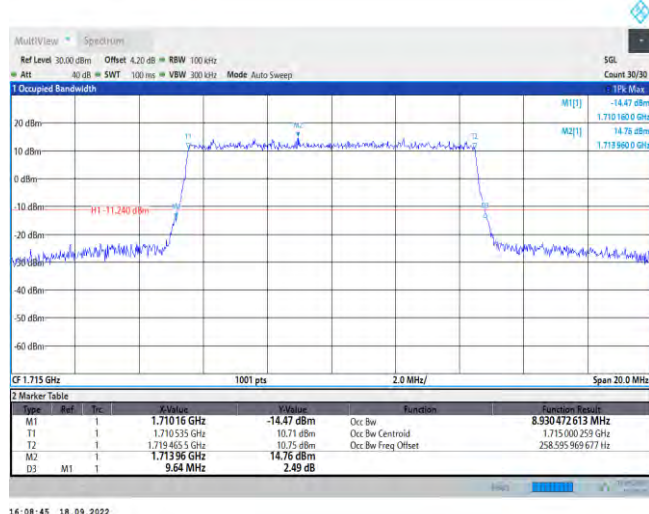
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Band4-10MHz-16QAM-20350-50RB#0



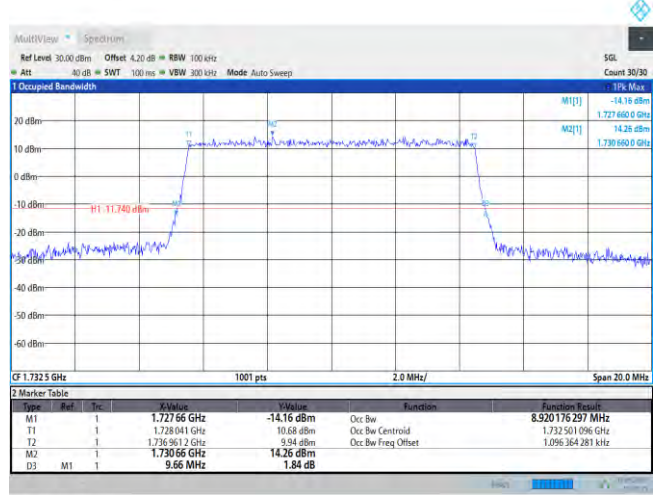
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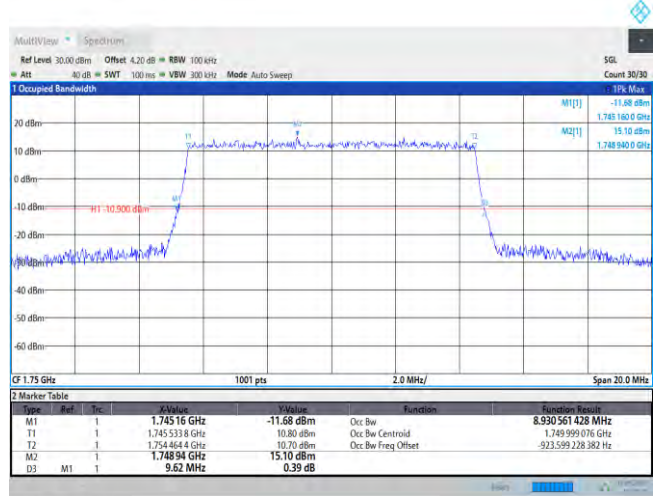
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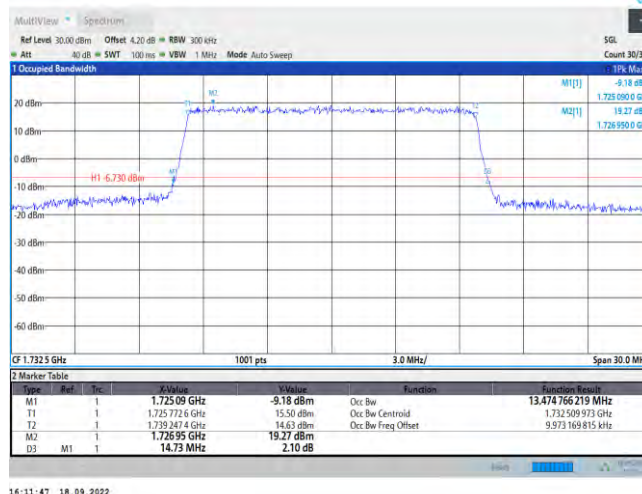
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Band4-15MHz-QPSK-20025-75RB#0



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Band4-15MHz-QPSK-20175-75RB#0



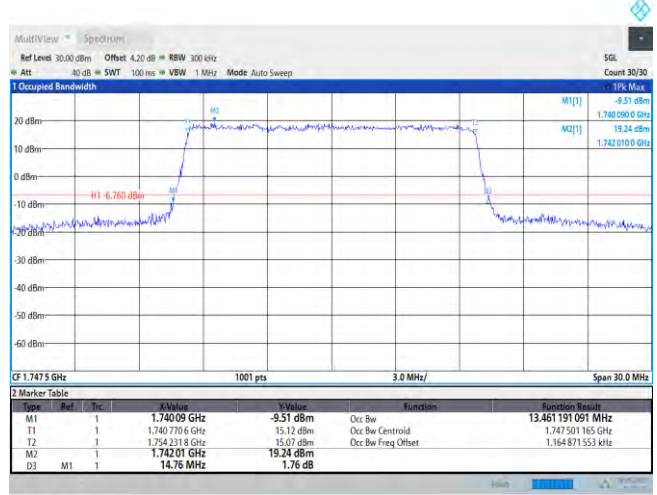
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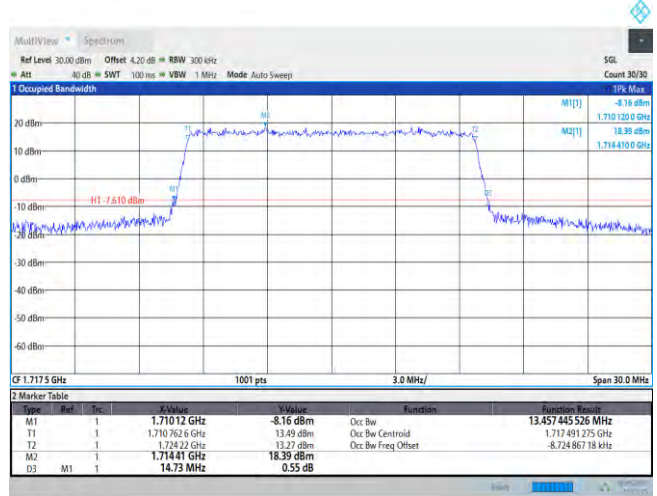
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Band4-15MHz-QPSK-20325-75RB#0



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Band4-15MHz-16QAM-20025-75RB#0



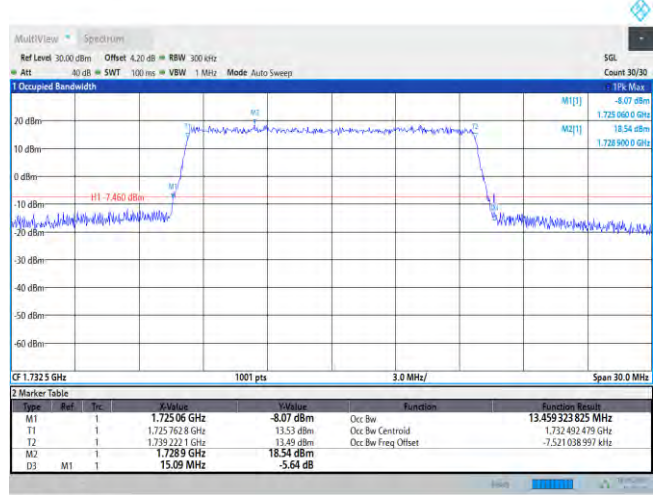
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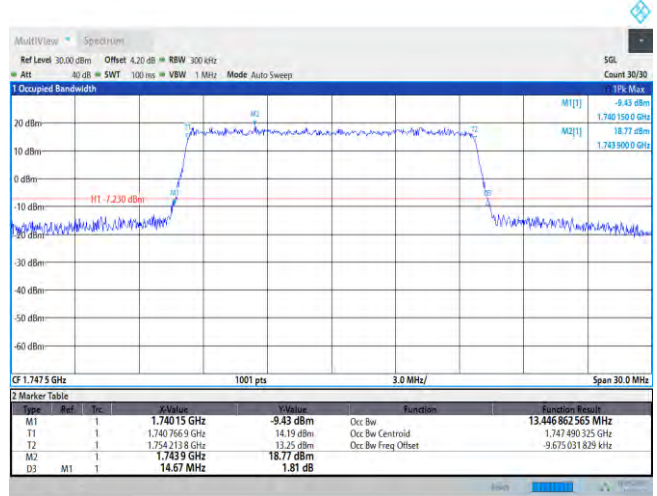
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Band4-15MHz-16QAM-20175-75RB#0



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Band4-15MHz-16QAM-20325-75RB#0



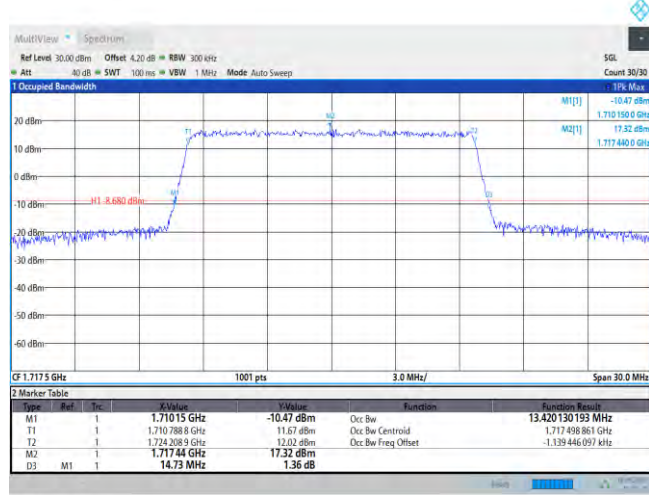
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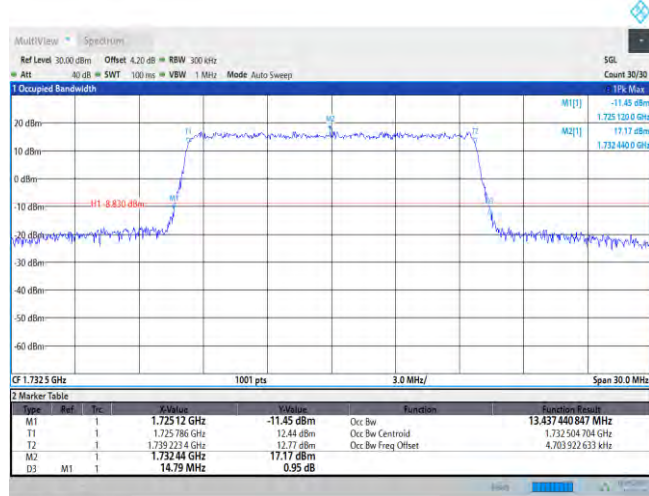
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Band4-15MHz-64QAM-20025-75RB#0



16:11:31 18.09.2022

Band4-15MHz-64QAM-20175-75RB#0



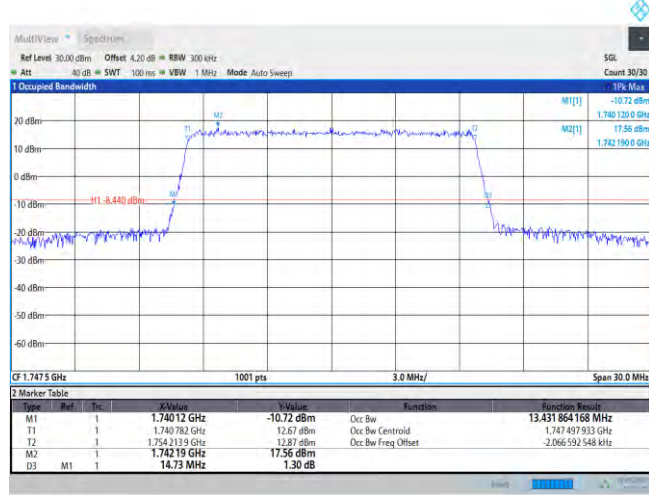
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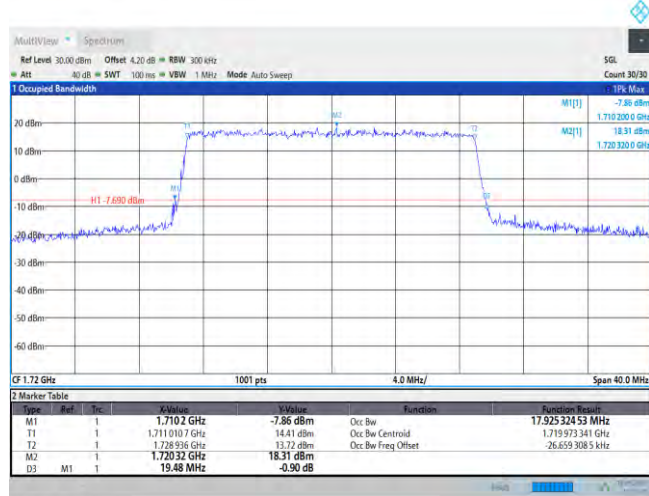
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Band4-15MHz-64QAM-20325-75RB#0



16:13:08 18.09.2022

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



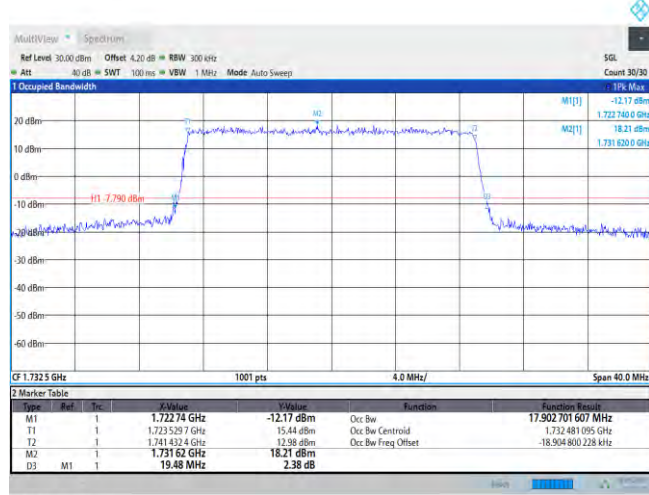
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Band4-20MHz-QPSK-20175-100RB#0



16:14:38 18.09.2022

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



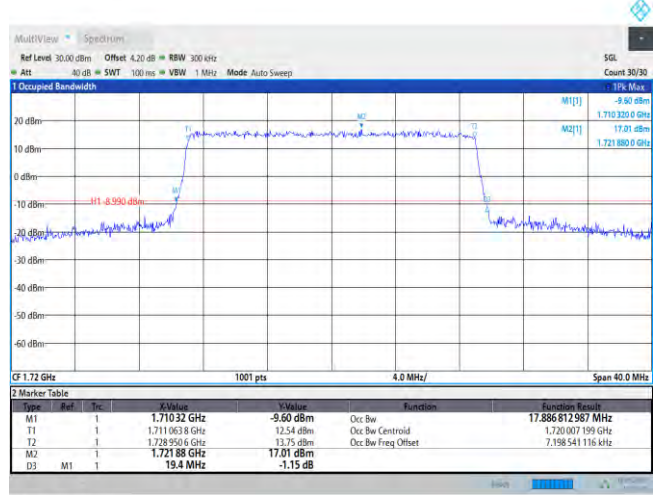
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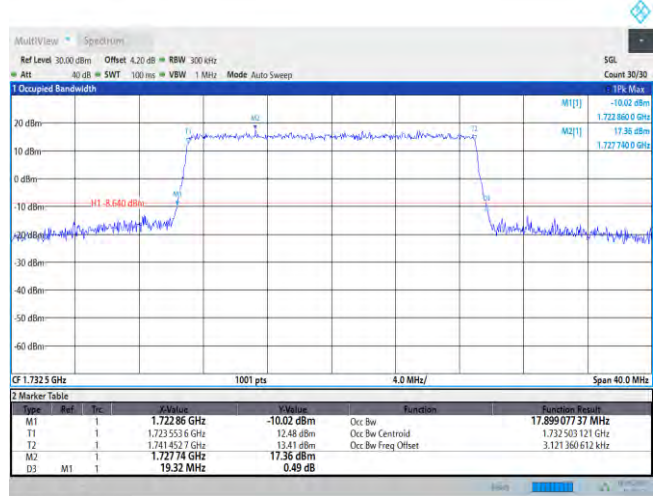
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Band4-20MHz-16QAM-20050-100RB#0



16:14:05 18.09.2022

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



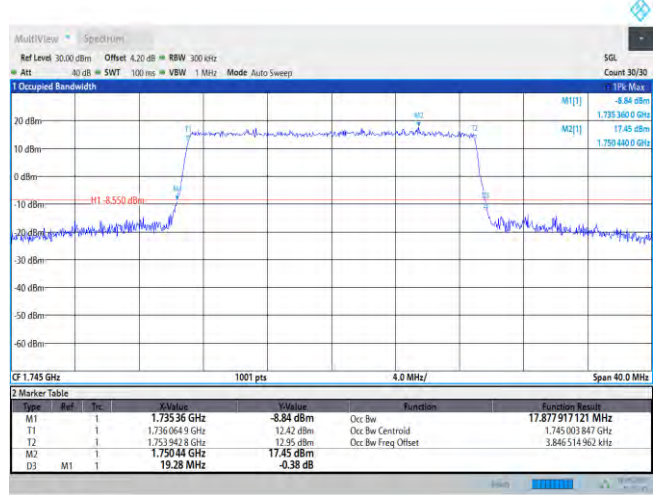
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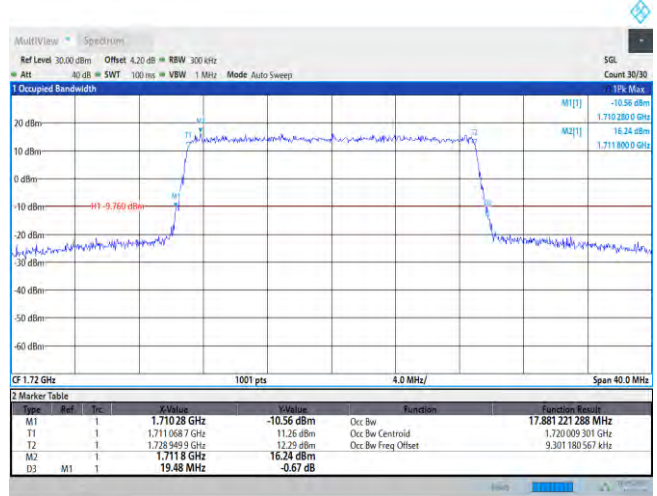
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Band4-20MHz-16QAM-20300-100RB#0



16:15:42 18.09.2022

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



16:14:21 18.09.2022



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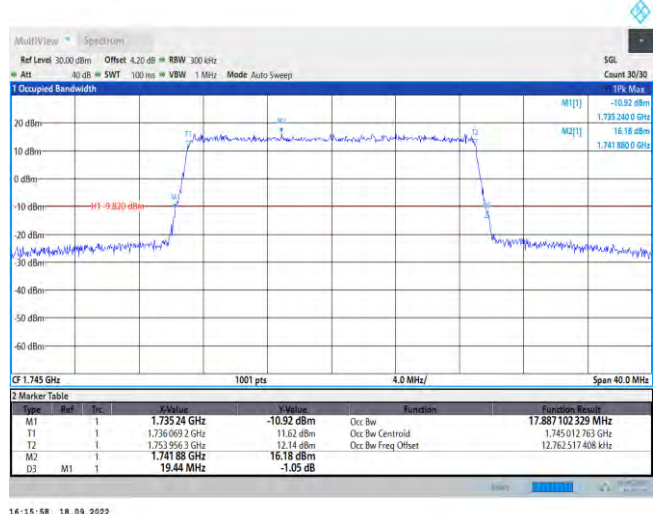
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Band4-20MHz-64QAM-20175-100RB#0



16:15:10 18.09.2022

Band4-20MHz-64QAM-20300-100RB#0



16:15:58 18.09.2022



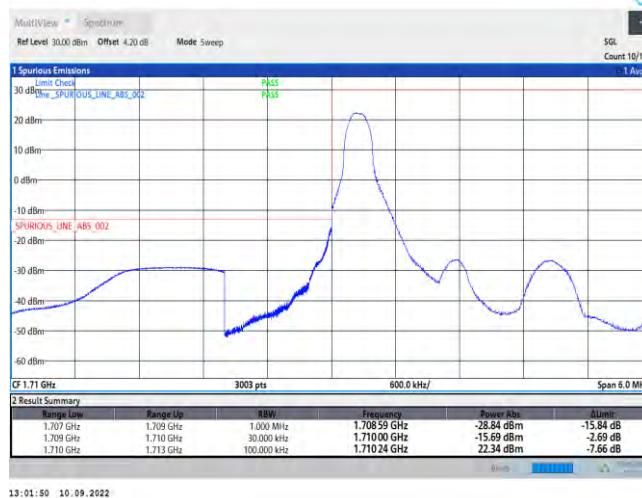
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Band Edge

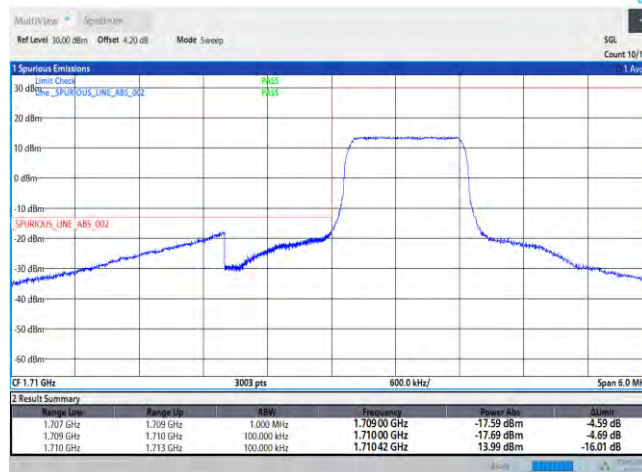
Test Graphs

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



13:01:50 10.09.2022

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



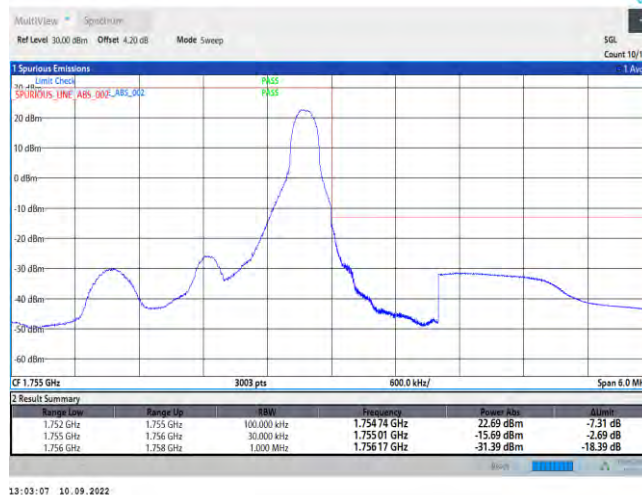
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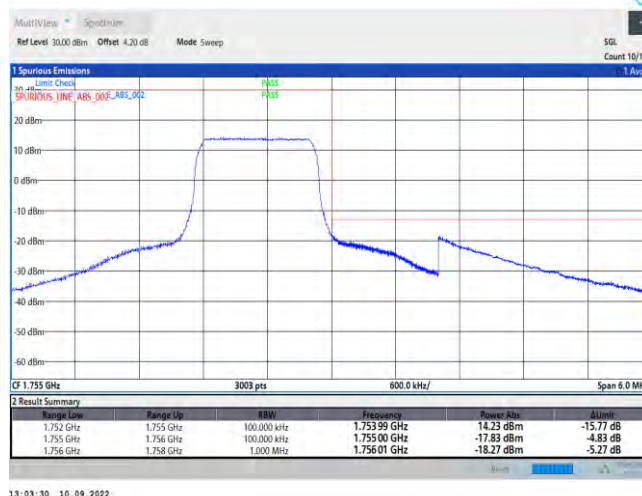
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Band4-1.4MHz-QPSK-20393-1RB#5



13:03:07 10.09.2022

Band4-1.4MHz-QPSK-20393-6RB#0



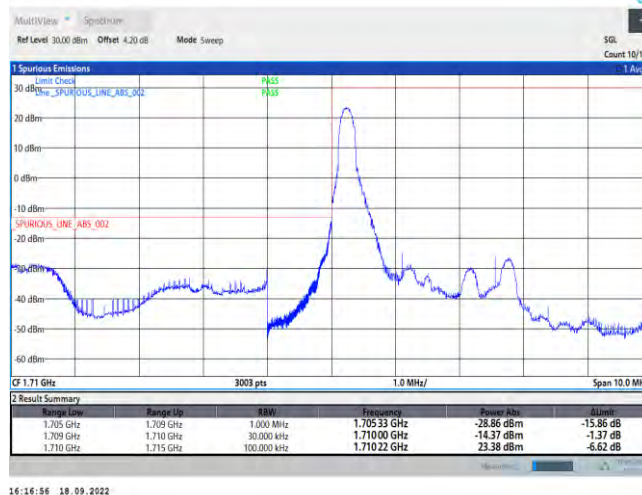
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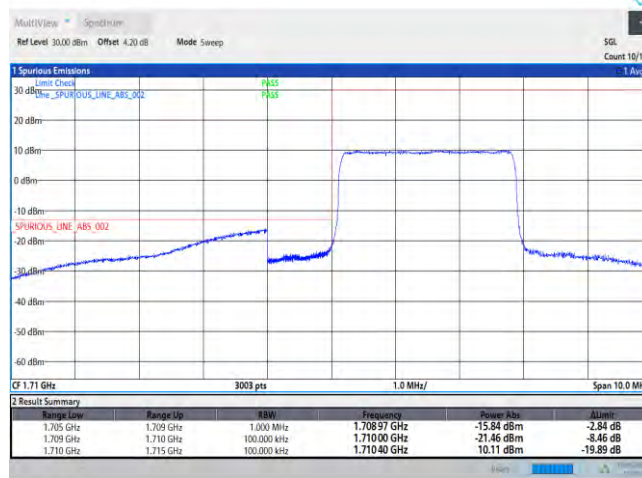
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Band4-3MHz-QPSK-19965-1RB#0



16:16:56 18.09.2022

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



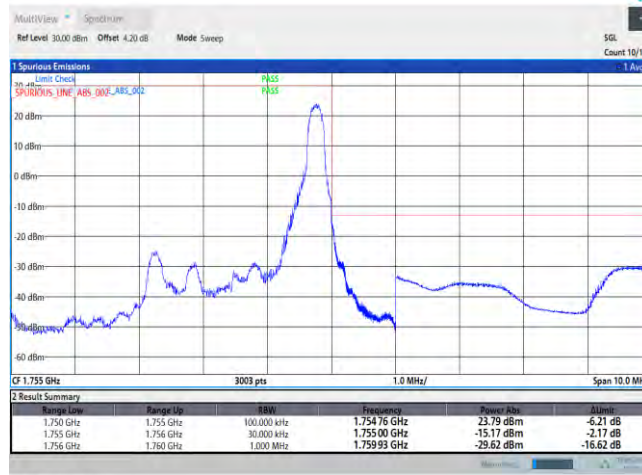
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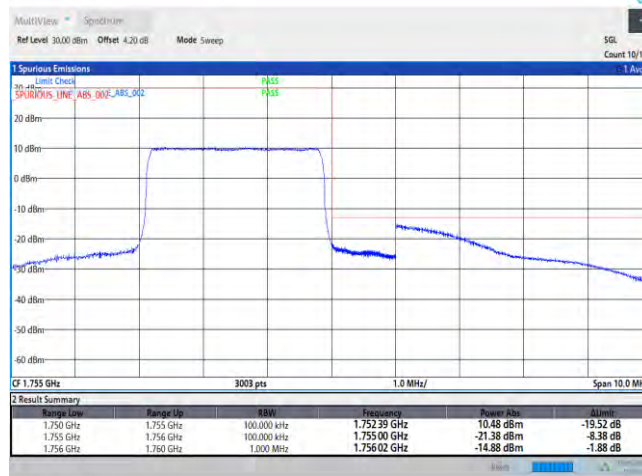
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Band4-3MHz-QPSK-20385-1RB#14



16:18:27 18.09.2022

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



13:06:04 10.09.2022

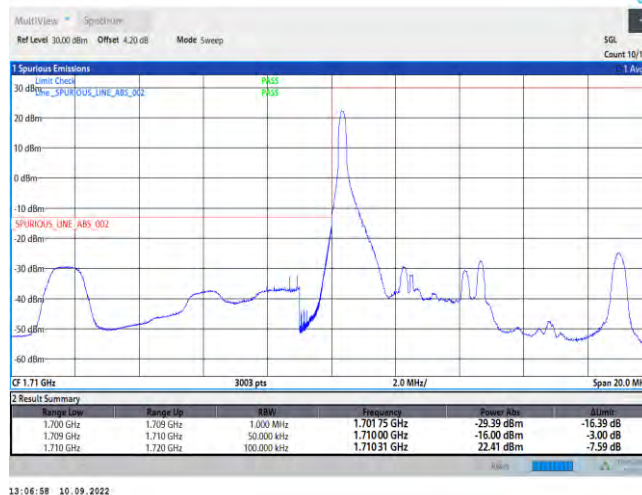


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Band4-5MHz-QPSK-19975-1RB#0



13:06:58 10.09.2022

Band4-5MHz-QPSK-19975-25RB#0



13:07:22 10.09.2022

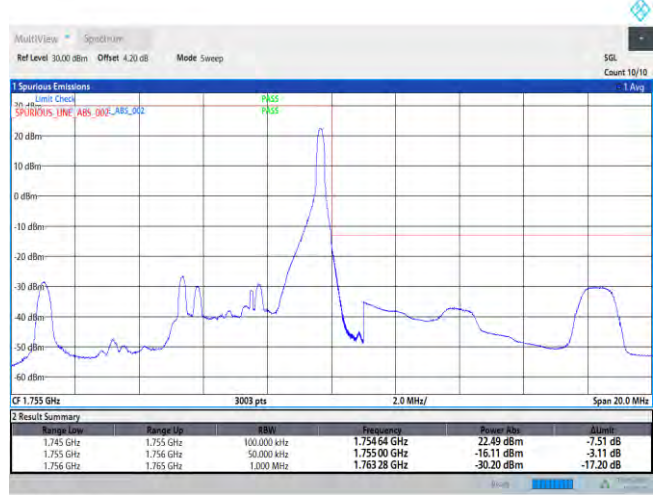


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Band4-5MHz-QPSK-20375-1RB#24



13:08:15 10.09.2022

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



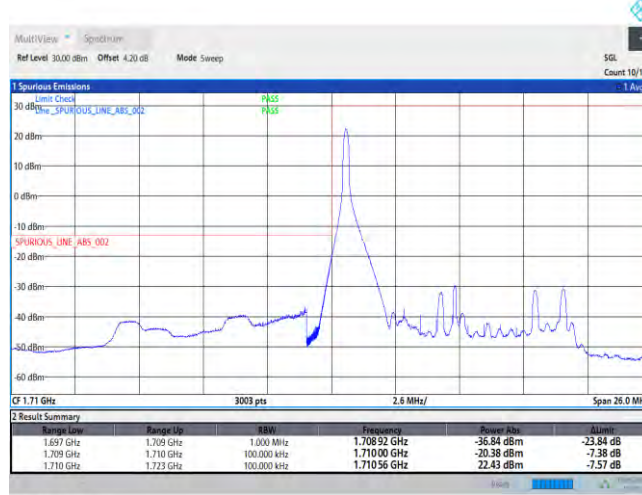
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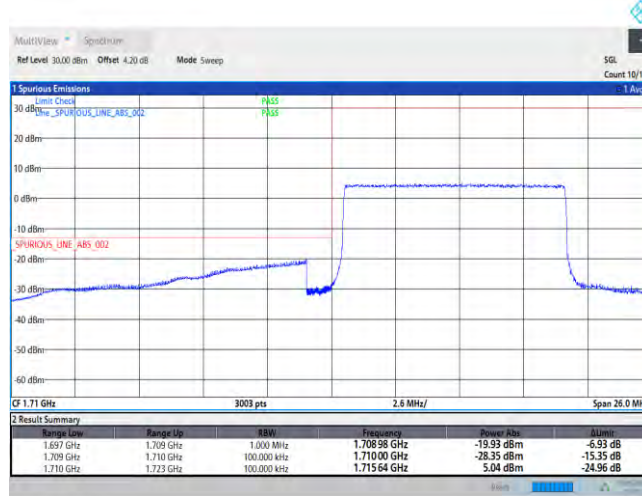
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Band4-10MHz-QPSK-20000-1RB#0



13:09:35 10.09.2022

Band4-10MHz-QPSK-20000-50RB#0



13:09:58 10.09.2022

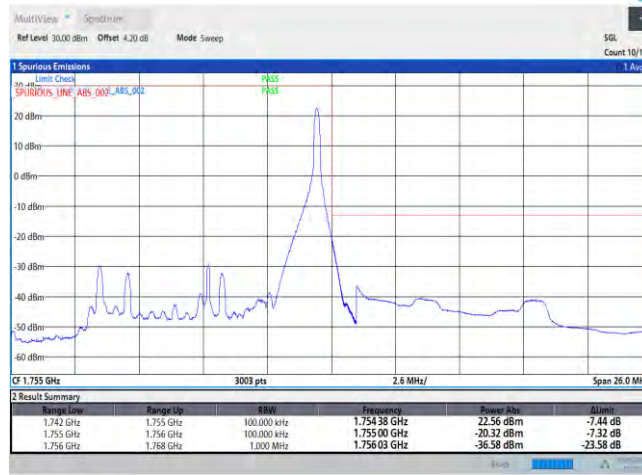


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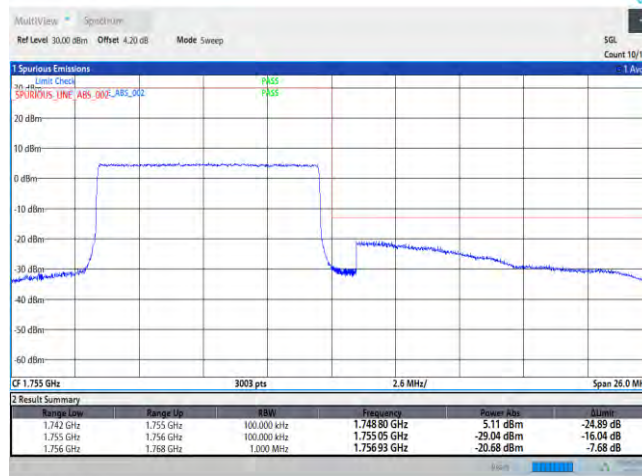
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Band4-10MHz-QPSK-20350-1RB#49



13:10:55 10.09.2022

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



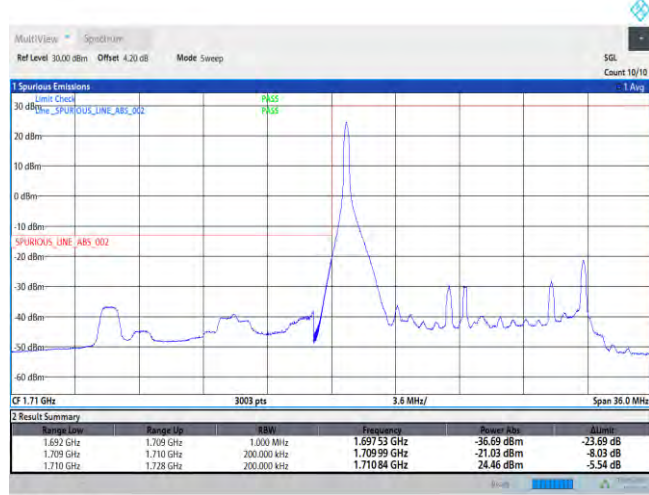
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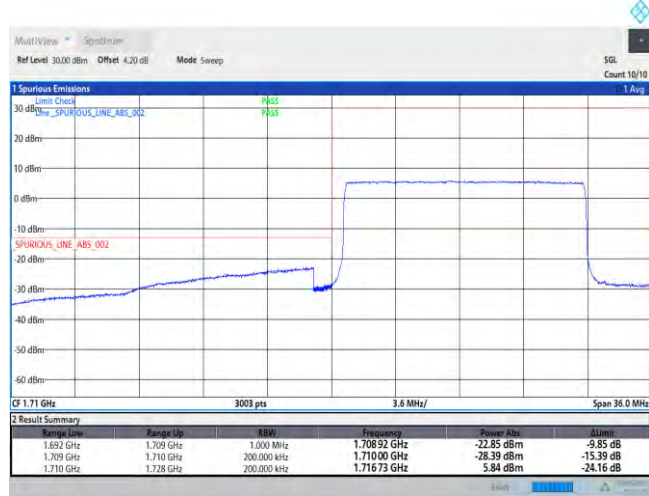
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Band4-15MHz-QPSK-20025-1RB#0



13:12:10 10.09.2022

Band4-15MHz-QPSK-20025-75RB#0



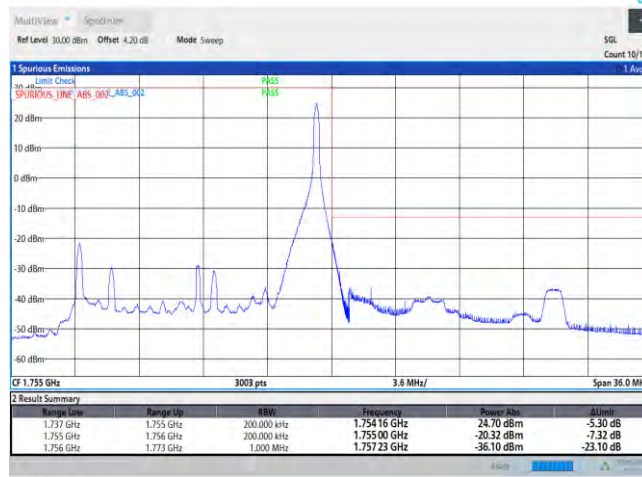
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Band4-15MHz-QPSK-20325-1RB#74



13:13:31 10.09.2022

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



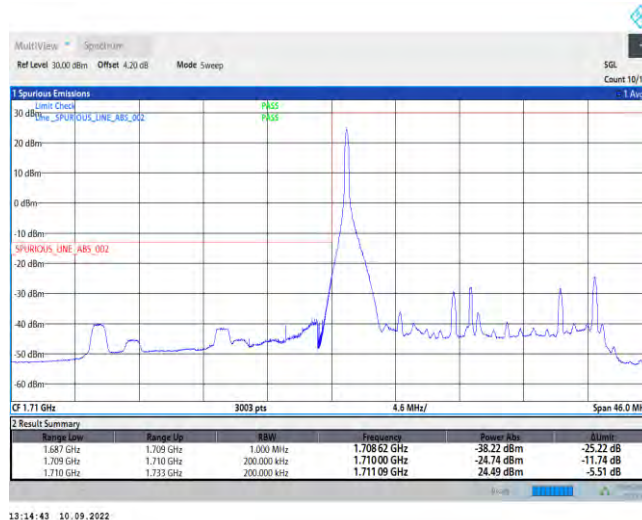
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Band4-20MHz-QPSK-20050-1RB#0



13:14:43 10.09.2022

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



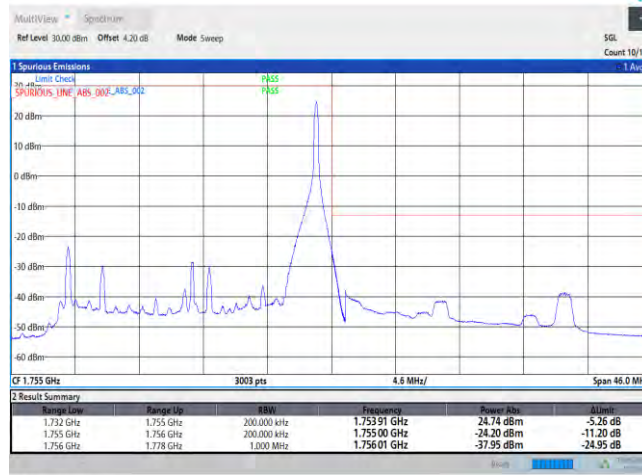
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Band4-20MHz-QPSK-20300-1RB#99



13:16:02 10.09.2022

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



13:16:25 10.09.2022



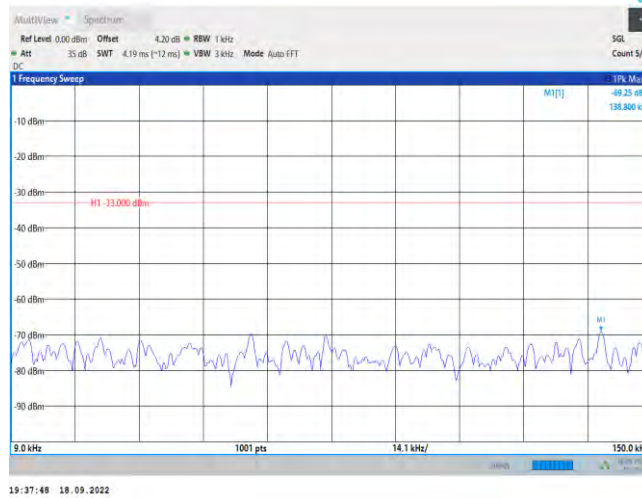
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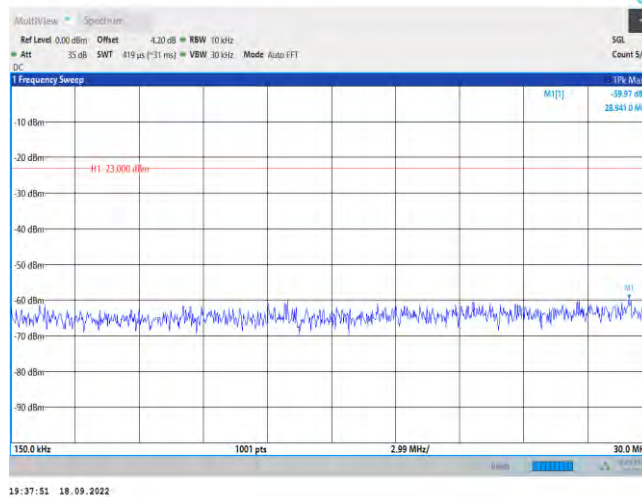
Conducted Spurious Emission

Test Graphs

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



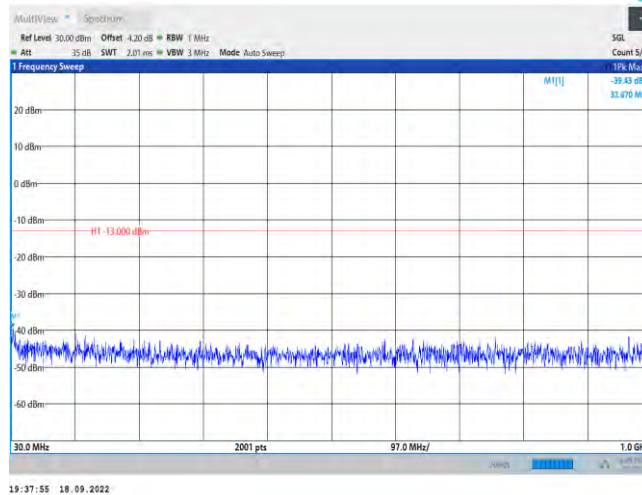
Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



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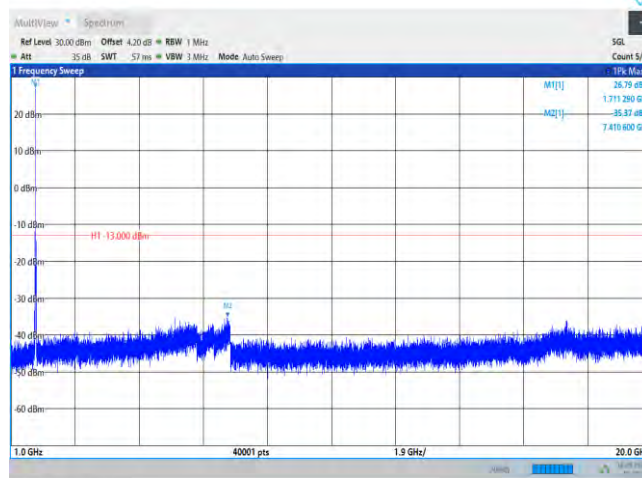
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



19:37:55 18.09.2022

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



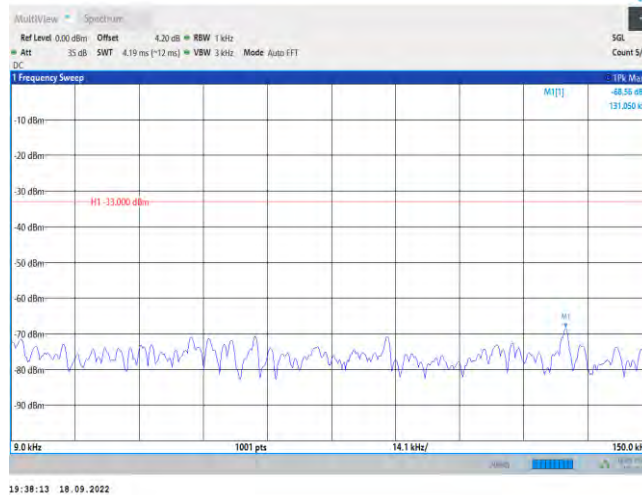
19:38:00 18.09.2022



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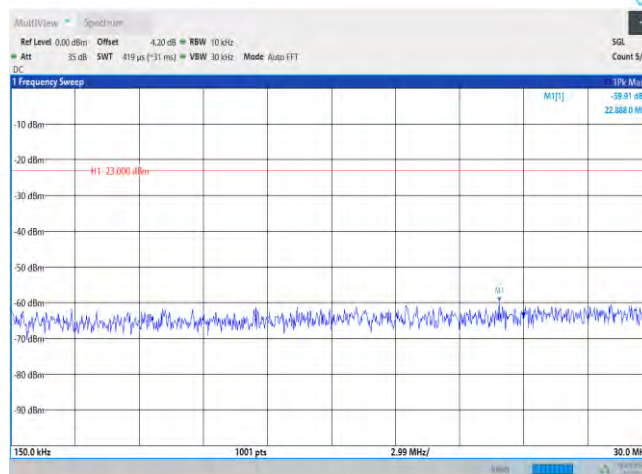
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



19:38:13 18.09.2022

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



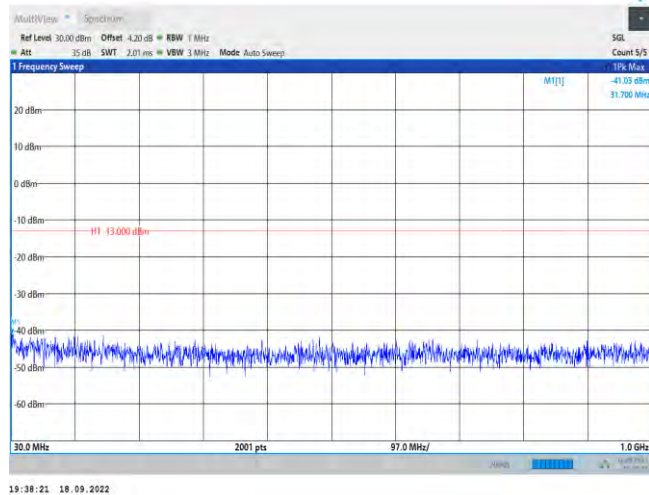
19:38:17 18.09.2022



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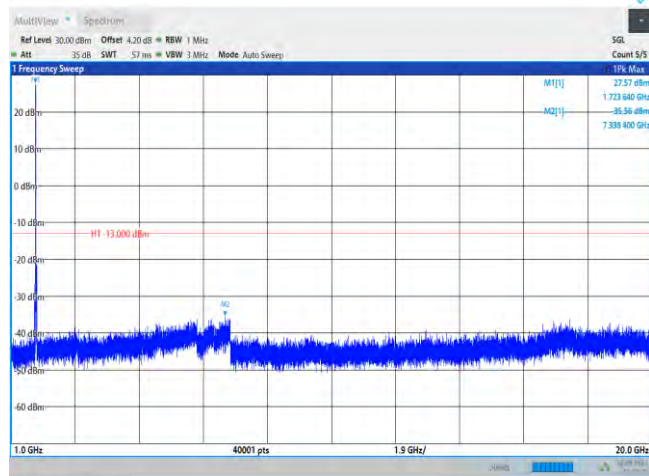
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



19:38:21 18.09.2022

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



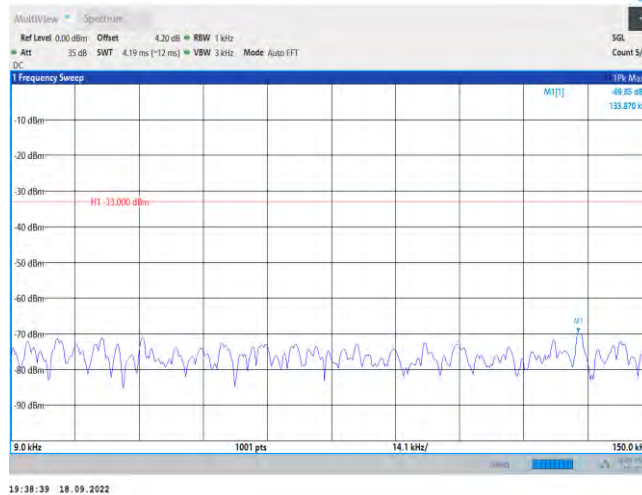
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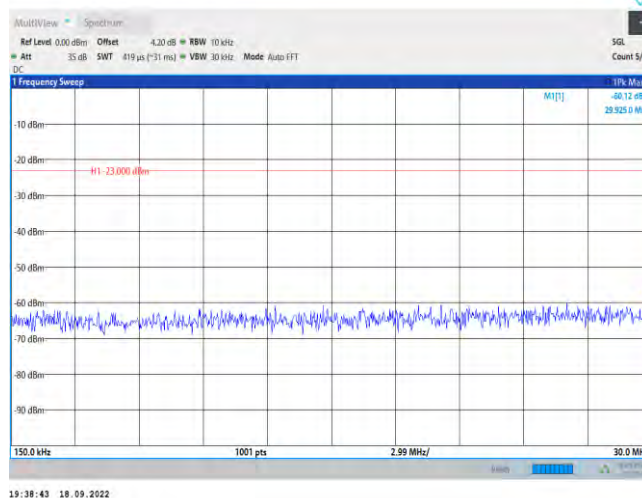
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



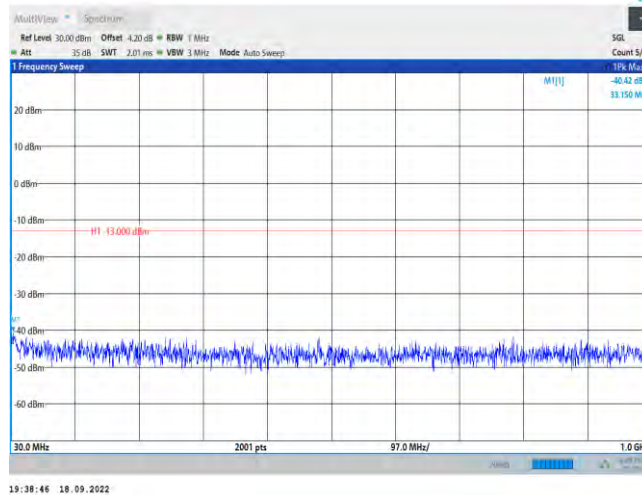
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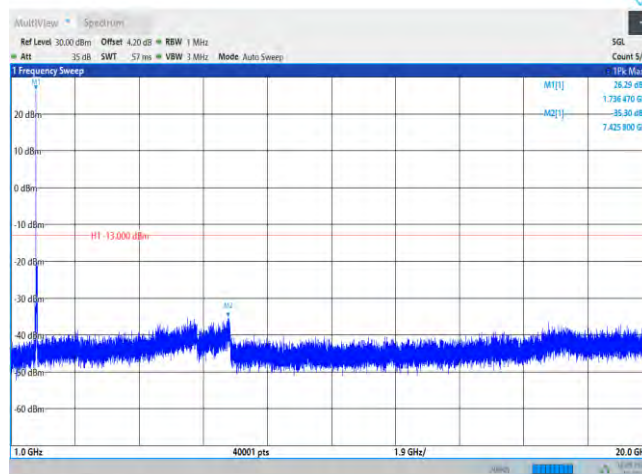
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



19:38:46 18.09.2022

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



19:38:51 18.09.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1
 Test Channel = Low ANT0

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	52.05	-46.28	29.45	-60.04	-13.00	47.04	156	270	Horizontal
2	5133.2700	48.08	-45.34	32.95	-59.57	-13.00	46.57	215	151	Horizontal
3	6844.3600	46.65	-44.14	35.89	-56.86	-13.00	43.86	263	196	Horizontal
4	8555.4500	44.22	-41.46	37.66	-54.84	-13.00	41.84	214	256	Horizontal
5	10266.5400	38.63	-39.23	38.83	-57.03	-13.00	44.03	286	121	Horizontal
6	11977.6300	34.68	-37.51	38.95	-59.15	-13.00	46.15	226	90	Horizontal

Test Band = LTE Band 4_ TM1
 Test Channel = Low ANT0

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	50.26	-46.28	29.45	-61.83	-13.00	48.83	213	197	Vertical
2	5133.2700	47.46	-45.34	32.95	-60.19	-13.00	47.19	235	29	Vertical
3	6844.3600	47.16	-44.14	35.89	-56.35	-13.00	43.35	109	319	Vertical
4	8555.4500	44.45	-41.46	37.66	-54.61	-13.00	41.61	182	360	Vertical
5	10266.5400	39.51	-39.23	38.83	-56.15	-13.00	43.15	157	197	Vertical
6	11977.6300	35.55	-37.51	38.95	-58.28	-13.00	45.28	169	46	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT0

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	52.29	-46.27	29.47	-59.77	-13.00	46.77	229	289	Horizontal
2	5170.7700	48.59	-45.31	32.97	-59.00	-13.00	46.00	258	137	Horizontal
3	6894.3600	47.41	-44.10	35.95	-56.00	-13.00	43.00	247	45	Horizontal
4	8617.9500	43.13	-41.40	37.78	-55.75	-13.00	42.75	261	212	Horizontal
5	10341.5400	38.85	-39.06	38.85	-56.62	-13.00	43.62	186	61	Horizontal
6	12065.1300	35.22	-37.44	39.02	-58.46	-13.00	45.46	179	183	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT0

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	50.71	-46.27	29.47	-61.35	-13.00	48.35	163	353	Vertical
2	5170.7700	48.03	-45.31	32.97	-59.56	-13.00	46.56	158	43	Vertical
3	6894.3600	47.29	-44.10	35.95	-56.12	-13.00	43.12	172	14	Vertical
4	8617.9500	43.09	-41.40	37.78	-55.79	-13.00	42.79	169	74	Vertical
5	10341.5400	37.99	-39.06	38.85	-57.48	-13.00	44.48	215	360	Vertical
6	12065.1300	35.60	-37.44	39.02	-58.08	-13.00	45.08	229	195	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High ANTO

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	57.09	-46.27	29.50	-54.94	-13.00	41.94	168	289	Horizontal
2	5208.2700	47.41	-45.26	32.98	-60.13	-13.00	47.13	175	318	Horizontal
3	6944.3600	47.05	-43.85	36.01	-56.05	-13.00	43.05	219	360	Horizontal
4	8680.4500	43.48	-41.62	37.88	-55.52	-13.00	42.52	226	358	Horizontal
5	10416.5400	36.90	-38.97	38.88	-58.46	-13.00	45.46	254	196	Horizontal
6	12152.6300	35.35	-37.42	39.09	-58.24	-13.00	45.24	183	106	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = High ANTO

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	51.69	-46.27	29.50	-60.34	-13.00	47.34	231	290	Vertical
2	5208.2700	48.10	-45.26	32.98	-59.44	-13.00	46.44	246	74	Vertical
3	6944.3600	46.20	-43.85	36.01	-56.90	-13.00	43.90	228	359	Vertical
4	8680.4500	42.86	-41.62	37.88	-56.14	-13.00	43.14	219	196	Vertical
5	10416.5400	36.37	-38.97	38.88	-58.99	-13.00	45.99	271	29	Vertical
6	12152.6300	37.47	-37.42	39.09	-56.12	-13.00	43.12	265	213	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Low ANT1

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	50.81	-46.28	29.45	-61.28	-13.00	48.28	251	44	Horizontal
2	5133.2700	49.83	-45.34	32.95	-57.82	-13.00	44.82	241	256	Horizontal
3	6844.3600	48.20	-44.14	35.89	-55.31	-13.00	42.31	269	358	Horizontal
4	8555.4500	43.30	-41.46	37.66	-55.76	-13.00	42.76	187	360	Horizontal
5	10266.5400	37.09	-39.23	38.83	-58.57	-13.00	45.57	194	331	Horizontal
6	11977.6300	33.07	-37.51	38.95	-60.76	-13.00	47.76	263	360	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = Low ANT1

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	50.05	-46.28	29.45	-62.04	-13.00	49.04	189	256	Vertical
2	5133.2700	47.75	-45.34	32.95	-59.90	-13.00	46.90	173	318	Vertical
3	6844.3600	46.46	-44.14	35.89	-57.05	-13.00	44.05	251	287	Vertical
4	8555.4500	44.67	-41.46	37.66	-54.39	-13.00	41.39	244	90	Vertical
5	10266.5400	38.18	-39.23	38.83	-57.48	-13.00	44.48	261	59	Vertical
6	11977.6300	33.28	-37.51	38.95	-60.55	-13.00	47.55	254	227	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT1

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	53.43	-46.27	29.47	-58.63	-13.00	45.63	163	105	Horizontal
2	5170.7700	49.70	-45.31	32.97	-57.89	-13.00	44.89	158	16	Horizontal
3	6894.3600	46.57	-44.10	35.95	-56.84	-13.00	43.84	241	225	Horizontal
4	8617.9500	43.87	-41.40	37.78	-55.01	-13.00	42.01	229	345	Horizontal
5	10341.5400	37.32	-39.06	38.85	-58.15	-13.00	45.15	237	225	Horizontal
6	12065.1300	34.52	-37.44	39.02	-59.16	-13.00	46.16	184	105	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT1

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	50.28	-46.27	29.47	-61.78	-13.00	48.78	231	105	Vertical
2	5170.7700	47.97	-45.31	32.97	-59.62	-13.00	46.62	251	4	Vertical
3	6894.3600	46.20	-44.10	35.95	-57.21	-13.00	44.21	246	256	Vertical
4	8617.9500	43.15	-41.40	37.78	-55.73	-13.00	42.73	228	88	Vertical
5	10341.5400	37.45	-39.06	38.85	-58.02	-13.00	45.02	249	14	Vertical
6	12065.1300	35.83	-37.44	39.02	-57.85	-13.00	44.85	194	331	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High ANT1

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	53.00	-46.27	29.50	-59.03	-13.00	46.03	286	290	Horizontal
2	5208.2700	48.00	-45.26	32.98	-59.54	-13.00	46.54	214	60	Horizontal
3	6944.3600	46.77	-43.85	36.01	-56.33	-13.00	43.33	271	354	Horizontal
4	8680.4500	42.53	-41.62	37.88	-56.47	-13.00	43.47	231	358	Horizontal
5	10416.5400	35.19	-38.97	38.88	-60.17	-13.00	47.17	256	182	Horizontal
6	12152.6300	34.14	-37.42	39.09	-59.45	-13.00	46.45	244	347	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = High ANT1

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	50.81	-46.27	29.50	-61.22	-13.00	48.22	174	46	Vertical
2	5208.2700	49.00	-45.26	32.98	-58.54	-13.00	45.54	186	334	Vertical
3	6944.3600	45.57	-43.85	36.01	-57.53	-13.00	44.53	216	359	Vertical
4	8680.4500	42.83	-41.62	37.88	-56.17	-13.00	43.17	257	77	Vertical
5	10416.5400	35.30	-38.97	38.88	-60.06	-13.00	47.06	291	213	Vertical
6	12152.6300	35.80	-37.42	39.09	-57.79	-13.00	44.79	223	182	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Low ANT2

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	51.52	-46.28	29.45	-60.57	-13.00	47.57	221	167	Horizontal
2	5133.2700	47.32	-45.34	32.95	-60.33	-13.00	47.33	246	182	Horizontal
3	6844.3600	47.07	-44.14	35.89	-56.44	-13.00	43.44	252	347	Horizontal
4	8555.4500	42.72	-41.46	37.66	-56.34	-13.00	43.34	162	213	Horizontal
5	10266.5400	36.77	-39.23	38.83	-58.89	-13.00	45.89	157	358	Horizontal
6	11977.6300	32.51	-37.51	38.95	-61.32	-13.00	48.32	169	14	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = Low ANT2

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	50.06	-46.28	29.45	-62.03	-13.00	49.03	163	16	Vertical
2	5133.2700	47.21	-45.34	32.95	-60.44	-13.00	47.44	158	228	Vertical
3	6844.3600	48.10	-44.14	35.89	-55.41	-13.00	42.41	215	260	Vertical
4	8555.4500	44.45	-41.46	37.66	-54.61	-13.00	41.61	229	77	Vertical
5	10266.5400	37.30	-39.23	38.83	-58.36	-13.00	45.36	237	360	Vertical
6	11977.6300	33.41	-37.51	38.95	-60.42	-13.00	47.42	246	31	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT2

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	51.30	-46.27	29.47	-60.76	-13.00	47.76	163	4	Horizontal
2	5170.7700	47.54	-45.31	32.97	-60.05	-13.00	47.05	158	358	Horizontal
3	6894.3600	46.78	-44.10	35.95	-56.63	-13.00	43.63	149	92	Horizontal
4	8617.9500	42.74	-41.40	37.78	-56.14	-13.00	43.14	215	261	Horizontal
5	10341.5400	38.51	-39.06	38.85	-56.96	-13.00	43.96	226	30	Horizontal
6	12065.1300	35.35	-37.44	39.02	-58.33	-13.00	45.33	234	152	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT2

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	49.97	-46.27	29.47	-62.09	-13.00	49.09	171	322	Vertical
2	5170.7700	49.20	-45.31	32.97	-58.39	-13.00	45.39	148	276	Vertical
3	6894.3600	48.30	-44.10	35.95	-55.11	-13.00	42.11	251	136	Vertical
4	8617.9500	42.91	-41.40	37.78	-55.97	-13.00	42.97	263	347	Vertical
5	10341.5400	38.15	-39.06	38.85	-57.32	-13.00	44.32	228	360	Vertical
6	12065.1300	33.98	-37.44	39.02	-59.70	-13.00	46.70	269	46	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High ANT2

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	54.87	-46.27	29.50	-57.16	-13.00	44.16	139	287	Horizontal
2	5208.2700	48.01	-45.26	32.98	-59.53	-13.00	46.53	262	120	Horizontal
3	6944.3600	46.76	-43.85	36.01	-56.34	-13.00	43.34	158	331	Horizontal
4	8680.4500	43.60	-41.62	37.88	-55.40	-13.00	42.40	144	359	Horizontal
5	10416.5400	35.60	-38.97	38.88	-59.76	-13.00	46.76	187	165	Horizontal
6	12152.6300	34.77	-37.42	39.09	-58.82	-13.00	45.82	219	151	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = High ANT2

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	51.55	-46.27	29.50	-60.48	-13.00	47.48	221	289	Vertical
2	5208.2700	48.67	-45.26	32.98	-58.87	-13.00	45.87	251	359	Vertical
3	6944.3600	46.93	-43.85	36.01	-56.17	-13.00	43.17	246	244	Vertical
4	8680.4500	44.26	-41.62	37.88	-54.74	-13.00	41.74	229	359	Vertical
5	10416.5400	36.77	-38.97	38.88	-58.59	-13.00	45.59	237	244	Vertical
6	12152.6300	36.20	-37.42	39.09	-57.39	-13.00	44.39	186	182	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Low ANT3

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	50.89	-46.28	29.45	-61.20	-13.00	48.20	241	286	Horizontal
2	5133.2700	47.91	-45.34	32.95	-59.74	-13.00	46.74	156	358	Horizontal
3	6844.3600	46.61	-44.14	35.89	-56.90	-13.00	43.90	179	182	Horizontal
4	8555.4500	43.94	-41.46	37.66	-55.12	-13.00	42.12	234	353	Horizontal
5	10266.5400	37.97	-39.23	38.83	-57.69	-13.00	44.69	256	360	Horizontal
6	11977.6300	33.56	-37.51	38.95	-60.27	-13.00	47.27	224	105	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = Low ANT3

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	50.04	-46.28	29.45	-62.05	-13.00	49.05	182	335	Vertical
2	5133.2700	48.02	-45.34	32.95	-59.63	-13.00	46.63	173	273	Vertical
3	6844.3600	47.60	-44.14	35.89	-55.91	-13.00	42.91	159	166	Vertical
4	8555.4500	44.03	-41.46	37.66	-55.03	-13.00	42.03	216	3	Vertical
5	10266.5400	39.16	-39.23	38.83	-56.50	-13.00	43.50	225	181	Vertical
6	11977.6300	33.99	-37.51	38.95	-59.84	-13.00	46.84	241	354	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT3

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	52.06	-46.27	29.47	-60.00	-13.00	47.00	217	273	Horizontal
2	5170.7700	48.70	-45.31	32.97	-58.89	-13.00	45.89	259	360	Horizontal
3	6894.3600	46.20	-44.10	35.95	-57.21	-13.00	44.21	213	358	Horizontal
4	8617.9500	42.94	-41.40	37.78	-55.94	-13.00	42.94	167	59	Horizontal
5	10341.5400	37.82	-39.06	38.85	-57.65	-13.00	44.65	183	227	Horizontal
6	12065.1300	34.64	-37.44	39.02	-59.04	-13.00	46.04	158	14	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = Middle ANT3

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	51.43	-46.27	29.47	-60.63	-13.00	47.63	176	359	Vertical
2	5170.7700	47.32	-45.31	32.97	-60.27	-13.00	47.27	193	46	Vertical
3	6894.3600	46.98	-44.10	35.95	-56.43	-13.00	43.43	246	306	Vertical
4	8617.9500	43.03	-41.40	37.78	-55.85	-13.00	42.85	251	31	Vertical
5	10341.5400	38.00	-39.06	38.85	-57.47	-13.00	44.47	229	169	Vertical
6	12065.1300	34.75	-37.44	39.02	-58.93	-13.00	45.93	238	337	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High ANT3

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	53.31	-46.27	29.50	-58.72	-13.00	45.72	169	88	Horizontal
2	5208.2700	47.85	-45.26	32.98	-59.69	-13.00	46.69	215	212	Horizontal
3	6944.3600	46.72	-43.85	36.01	-56.38	-13.00	43.38	228	212	Horizontal
4	8680.4500	43.55	-41.62	37.88	-55.45	-13.00	42.45	267	286	Horizontal
5	10416.5400	37.39	-38.97	38.88	-57.97	-13.00	44.97	216	360	Horizontal
6	12152.6300	34.32	-37.42	39.09	-59.27	-13.00	46.27	221	103	Horizontal

Test Band = LTE Band 4_ TM1
Test Channel = High ANT3

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	51.09	-46.27	29.50	-60.94	-13.00	47.94	241	258	Vertical
2	5208.2700	48.12	-45.26	32.98	-59.42	-13.00	46.42	256	4	Vertical
3	6944.3600	45.67	-43.85	36.01	-57.43	-13.00	44.43	284	359	Vertical
4	8680.4500	43.09	-41.62	37.88	-55.91	-13.00	42.91	162	197	Vertical
5	10416.5400	36.18	-38.97	38.88	-59.18	-13.00	46.18	183	273	Vertical
6	12152.6300	36.44	-37.42	39.09	-57.15	-13.00	44.15	142	212	Vertical



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Test Band = 4A_7A_TM1 ANT2+ANT3 WORSE
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	49.12	-46.28	29.45	-62.97	-25.00	37.97	148	255	Horizontal
2	5002.1800	47.97	-45.63	32.88	-60.04	-25.00	35.04	126	255	Horizontal
3	5133.2700	46.13	-45.34	32.95	-61.52	-25.00	36.52	233	72	Horizontal
4	6844.3600	46.73	-44.14	35.89	-56.78	-25.00	31.78	261	1	Horizontal
5	7503.2700	44.45	-43.13	36.44	-57.50	-25.00	32.50	148	194	Horizontal
6	10004.3600	37.07	-39.23	38.50	-58.93	-25.00	33.93	191	2	Horizontal

Test Band = 4A_7A_TM1 ANT2+ANT3 WORSE
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	48.95	-46.28	29.45	-63.14	-25.00	38.14	215	208	Vertical
2	5002.1800	47.43	-45.63	32.88	-60.58	-25.00	35.58	142	270	Vertical
3	5133.2700	45.95	-45.34	32.95	-61.70	-25.00	36.70	166	1	Vertical
4	6844.3600	46.10	-44.14	35.89	-57.41	-25.00	32.41	251	330	Vertical
5	7503.2700	44.53	-43.13	36.44	-57.42	-25.00	32.42	189	0	Vertical
6	10004.3600	36.95	-39.23	38.50	-59.05	-25.00	34.05	145	316	Vertical



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Test Band = 4A_7A_TM1 ANT2+ANT3 WORSE
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	48.90	-46.27	29.47	-63.16	-25.00	38.16	235	226	Horizontal
2	5052.1800	48.29	-45.50	32.91	-59.56	-25.00	34.56	142	7	Horizontal
3	5170.7700	46.87	-45.31	32.97	-60.72	-25.00	35.72	126	135	Horizontal
4	6894.3600	45.73	-44.10	35.95	-57.68	-25.00	32.68	255	316	Horizontal
5	7578.2700	44.80	-42.97	36.40	-57.03	-25.00	32.03	188	346	Horizontal
6	10104.3600	36.78	-39.14	38.66	-58.96	-25.00	33.96	194	7	Horizontal

Test Band = 4A_7A_TM1 ANT2+ANT3 WORSE
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	49.41	-46.27	29.47	-62.65	-25.00	37.65	111	26	Vertical
2	5052.1800	47.46	-45.50	32.91	-60.39	-25.00	35.39	145	330	Vertical
3	5170.7700	47.83	-45.31	32.97	-59.76	-25.00	34.76	198	233	Vertical
4	6894.3600	45.13	-44.10	35.95	-58.28	-25.00	33.28	128	87	Vertical
5	7578.2700	44.51	-42.97	36.40	-57.32	-25.00	32.32	176	7	Vertical
6	10104.3600	38.01	-39.14	38.66	-57.73	-25.00	32.73	231	301	Vertical



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Test Band = 4A_7A_TM1 ANT2+ANT3 WORSE
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	51.27	-46.27	29.50	-60.76	-25.00	35.76	254	300	Horizontal
2	5102.1800	45.74	-45.37	32.94	-61.95	-25.00	36.95	186	224	Horizontal
3	5208.2700	47.64	-45.26	32.98	-59.90	-25.00	34.90	135	146	Horizontal
4	6944.3600	45.40	-43.85	36.01	-57.70	-25.00	32.70	174	331	Horizontal
5	7653.2700	44.32	-43.03	36.49	-57.48	-25.00	32.48	195	2	Horizontal
6	10204.3600	36.05	-39.48	38.81	-59.88	-25.00	34.88	120	38	Horizontal

Test Band = 4A_7A_TM1 ANT2+ANT3 WORSE
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	50.13	-46.27	29.50	-61.90	-25.00	36.90	259	356	Vertical
2	5102.1800	46.51	-45.37	32.94	-61.18	-25.00	36.18	146	116	Vertical
3	5208.2700	46.70	-45.26	32.98	-60.84	-25.00	35.84	236	2	Vertical
4	6944.3600	46.25	-43.85	36.01	-56.85	-25.00	31.85	216	2	Vertical
5	7653.2700	45.62	-43.03	36.49	-56.18	-25.00	31.18	142	301	Vertical
6	10204.3600	35.88	-39.48	38.81	-60.05	-25.00	35.05	133	194	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	-0.90	-0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-3.80	-0.002193	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-3.10	-0.001789	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.00	0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	6.70	0.003867	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.90	-0.001097	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	5.20	0.003001	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-6.40	-0.003694	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	5.80	0.003348	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.20	-0.000115	PASS

---End of Attachment---



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