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Appendix B.2

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	23.15	25.09	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.28	25.22	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.19	25.13	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.23	24.17	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.14	25.08	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.29	25.23	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.17	25.11	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.24	24.18	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.05	24.99	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.17	25.11	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.05	24.99	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.16	24.1	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.45	24.39	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.55	24.49	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.4	24.34	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.37	23.31	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.42	24.36	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.6	24.54	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.57	24.51	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.34	23.28	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.45	24.39	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.51	24.45	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.46	24.4	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.23	23.17	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.22	25.16	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.22	25.16	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.21	25.15	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.29	24.23	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.19	25.13	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.26	25.2	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.19	25.13	30	PASS



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Band4	3MHz	QPSK	20175	15RB#0	22.34	24.28	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.09	25.03	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.14	25.08	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.14	25.08	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.23	24.17	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.61	24.55	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.63	24.57	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.52	24.46	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.33	23.27	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.57	24.51	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.61	24.55	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.55	24.49	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.37	23.31	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.32	24.26	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.44	24.38	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.4	24.34	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.21	23.15	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.2	25.14	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.27	25.21	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.19	25.13	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.27	24.21	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.26	25.2	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.23	25.17	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.26	25.2	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.32	24.26	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.14	25.08	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.16	25.1	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.11	25.05	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.18	24.12	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.55	24.49	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.6	24.54	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.63	24.57	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.36	23.3	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.66	24.6	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.64	24.58	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.63	24.57	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.36	23.3	30	PASS



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Band4	5MHz	16QAM	20375	1RB#12	22.33	24.27	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.46	24.4	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.23	23.17	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.22	25.16	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.26	25.2	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.22	25.16	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.29	24.23	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.18	25.12	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.31	25.25	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.18	25.12	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.29	24.23	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.18	25.12	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.13	25.07	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.16	25.1	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.32	24.26	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.54	24.48	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.7	24.64	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.59	24.53	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.36	23.3	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.52	24.46	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.68	24.62	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.55	24.49	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.38	23.32	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.58	24.52	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.44	24.38	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.5	24.44	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.36	23.3	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.17	25.11	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.31	25.25	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.18	25.12	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.26	24.2	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.08	25.02	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.28	25.22	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.25	25.19	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.34	24.28	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.19	25.13	30	PASS



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Band4	15MHz	QPSK	20325	1RB#74	23.2	25.14	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.32	24.26	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.47	24.41	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.55	24.49	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.4	24.34	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.27	23.21	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.51	24.45	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.66	24.6	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.61	24.55	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.38	23.32	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.47	24.41	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.49	24.43	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.46	24.4	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.36	23.3	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.11	25.05	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.28	25.22	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.24	25.18	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.22	24.16	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.18	25.12	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.29	25.23	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.25	25.19	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.3	24.24	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.16	25.1	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.28	25.22	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.18	25.12	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.27	24.21	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.43	24.37	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.59	24.53	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.57	24.51	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.26	23.2	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.44	24.38	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.51	24.45	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.52	24.46	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.35	23.29	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.5	24.44	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.53	24.47	30	PASS



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Band4	20MHz	16QAM	20300	1RB#99	22.45	24.39	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.29	23.23	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	5.42	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.80	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.42	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.24	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.64	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.34	13	PASS



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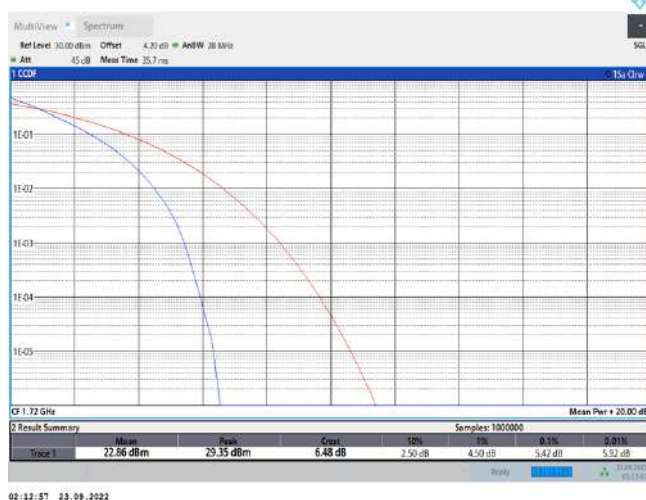
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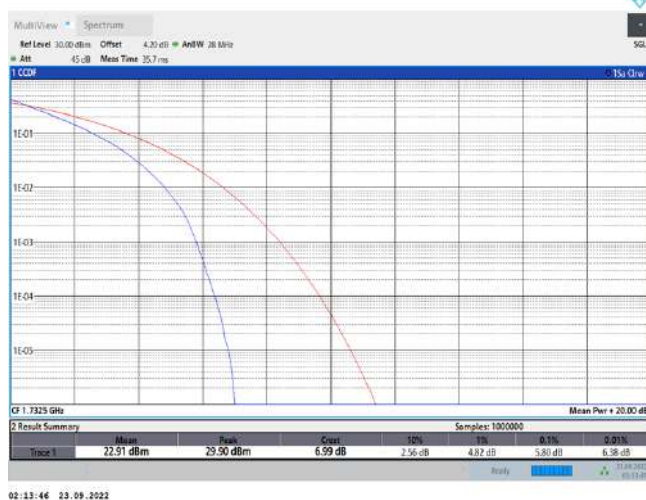
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Test Graphs

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



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



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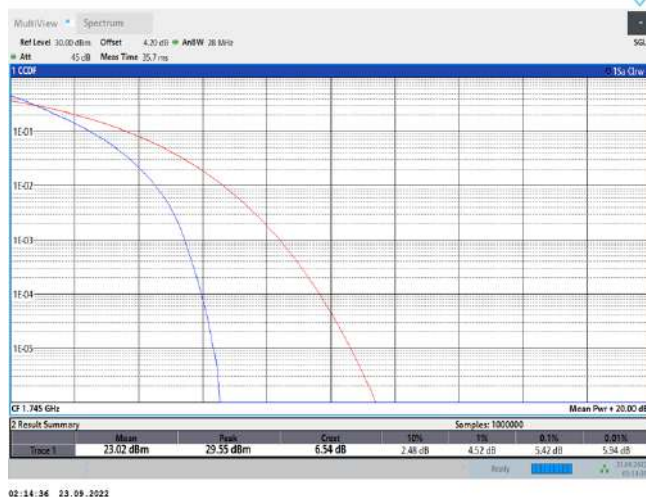
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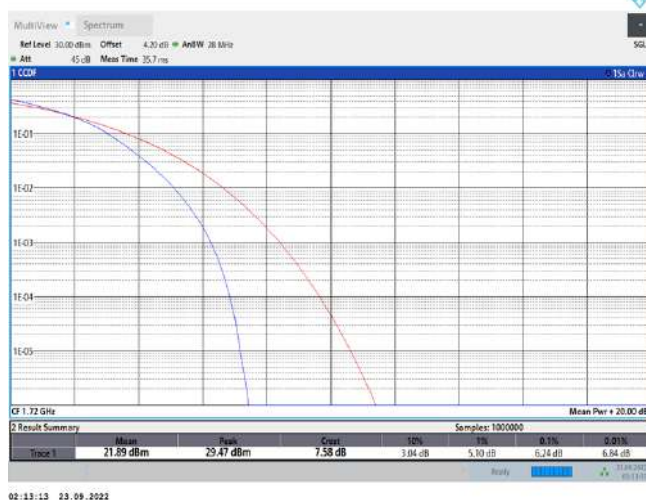
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Band4-20MHz-QPSK-20300-100RB#0



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



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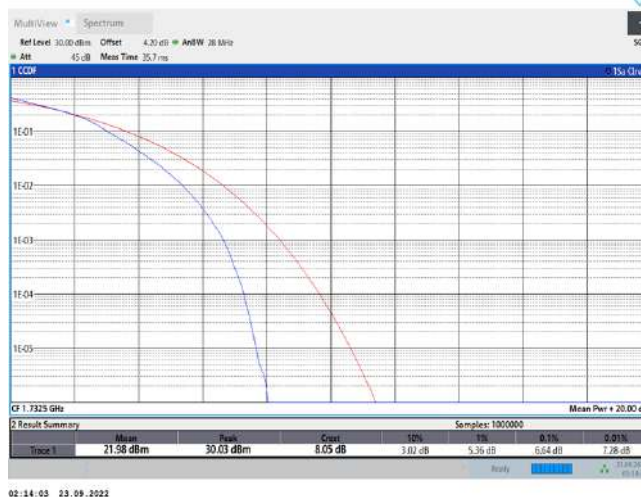
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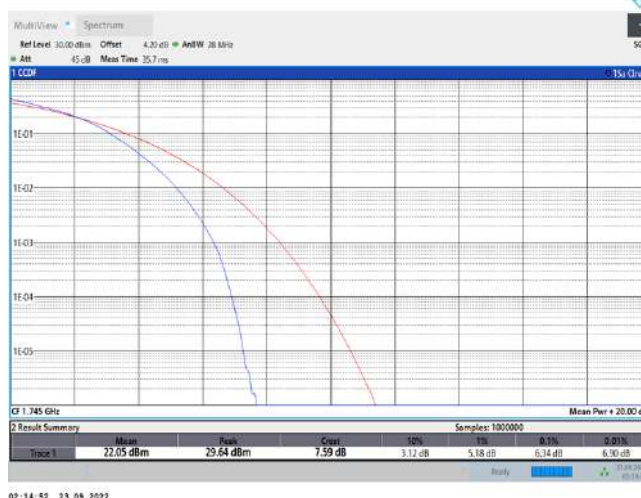
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Band4-20MHz-16QAM-20175-100RB#0



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



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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



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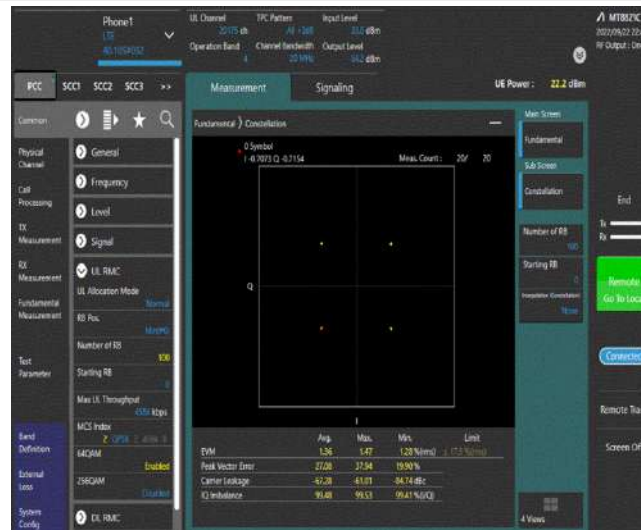
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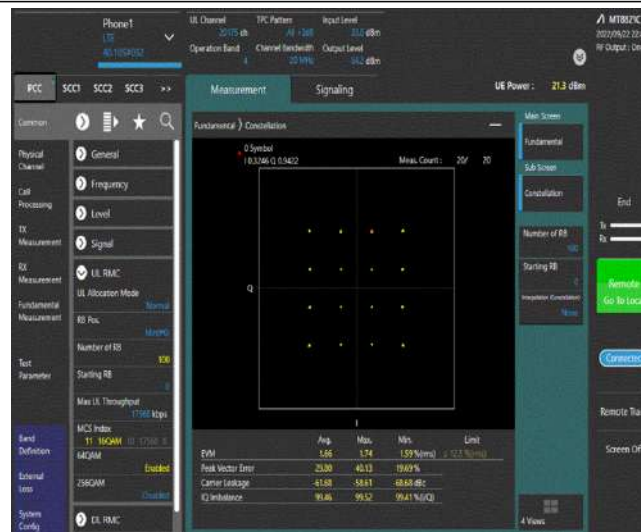
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Test Graphs

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



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



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.087	1.24	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.087	1.24	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.085	1.24	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.093	1.24	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.092	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.696	3.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7	2.99	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.693	2.98	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.692	3.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.69	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.691	2.98	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.472	4.88	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.91	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.469	4.87	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.473	4.91	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.472	4.93	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.464	4.89	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.941	9.60	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.943	9.64	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.929	9.56	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.915	9.58	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.925	9.66	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.91	9.62	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.406	14.64	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.495	14.76	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.439	14.70	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.395	14.67	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.467	14.79	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.407	14.79	PASS



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Band4	20MHz	QPSK	20050	100RB#0	17.839	19.28	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.938	19.44	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.865	19.24	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.788	19.28	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.927	19.36	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.824	19.36	PASS



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Test Graphs

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



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



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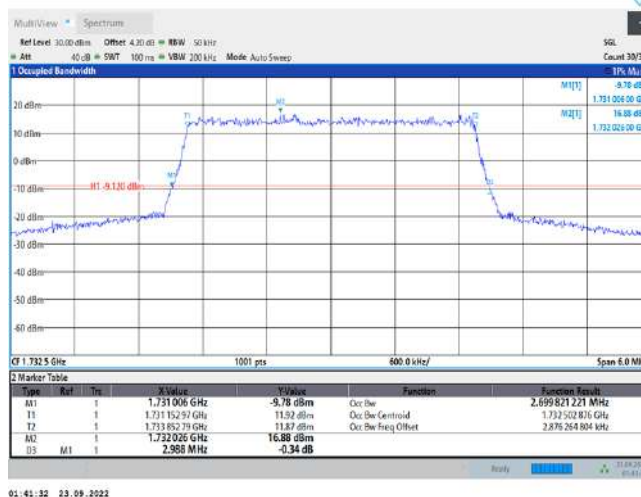
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Band4-3MHz-QPSK-20385-15RB#0



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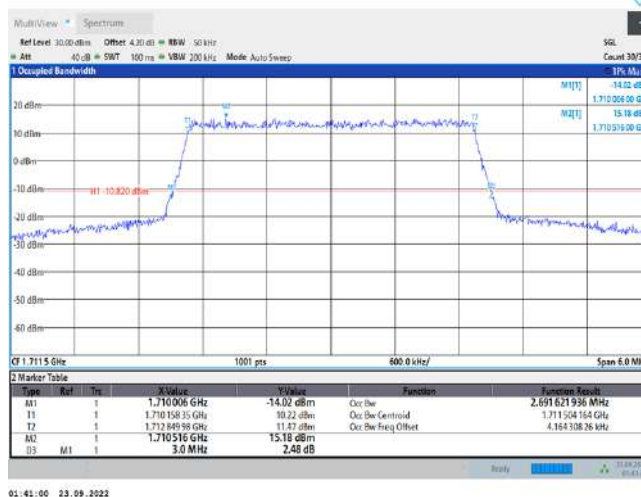
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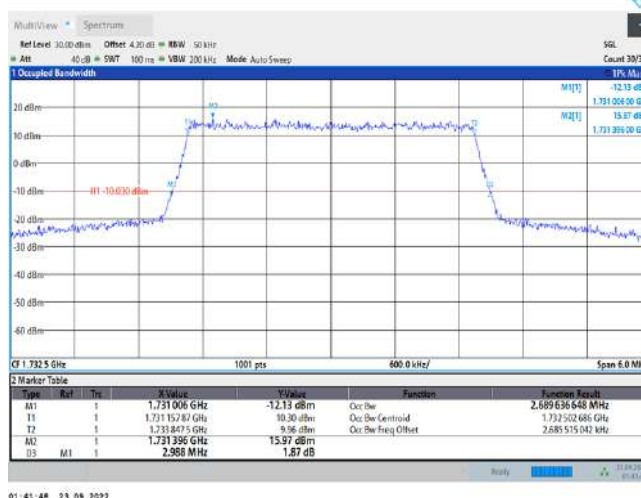
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01:41:48 23.09.2022



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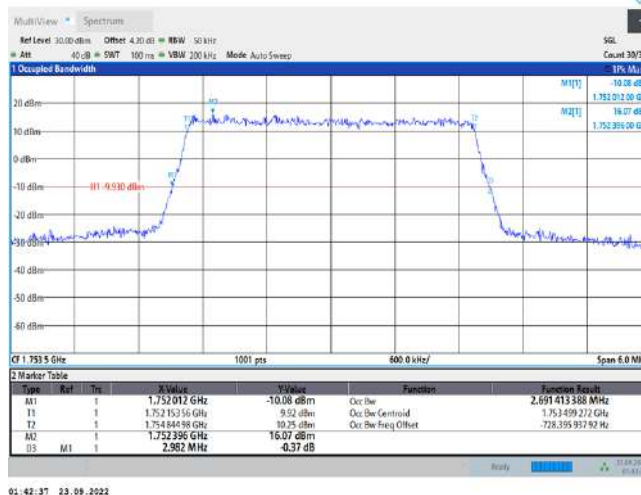
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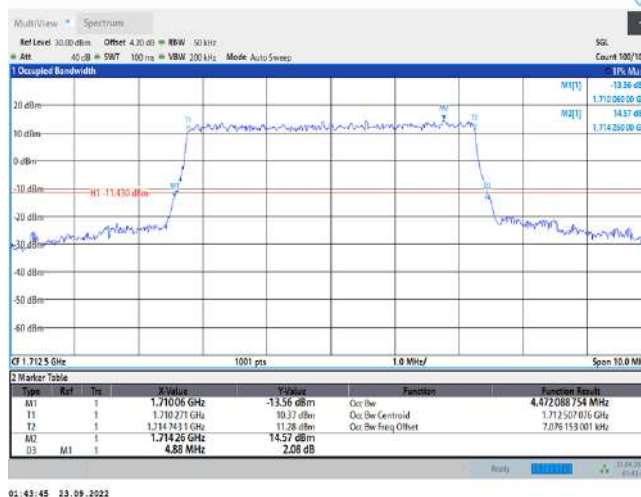
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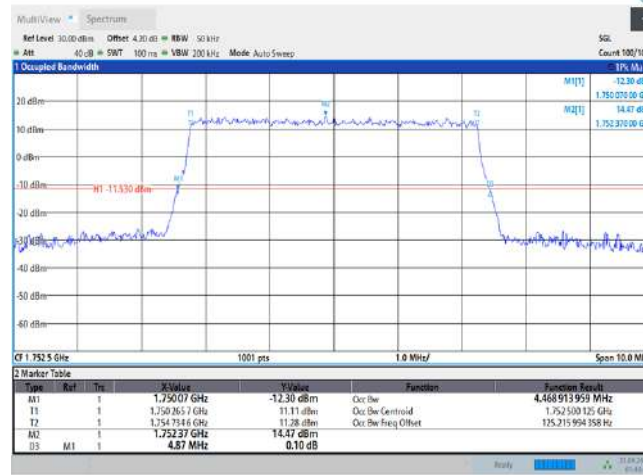
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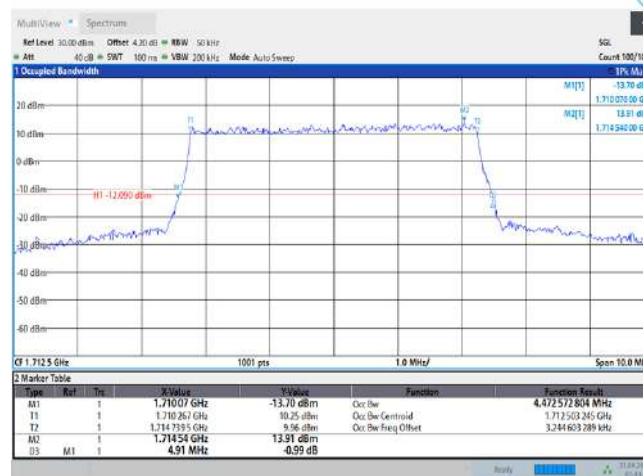
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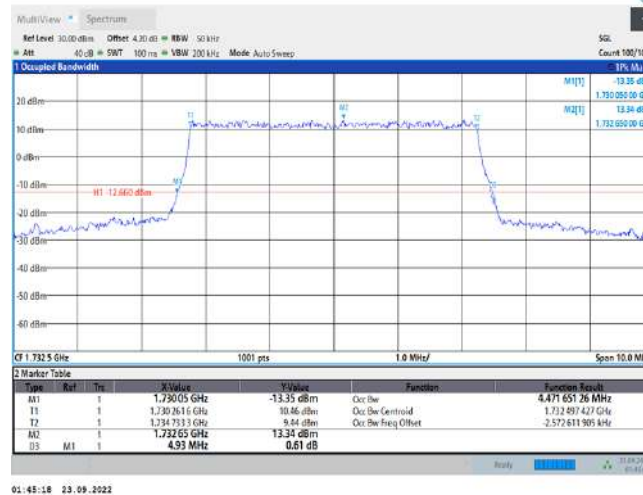
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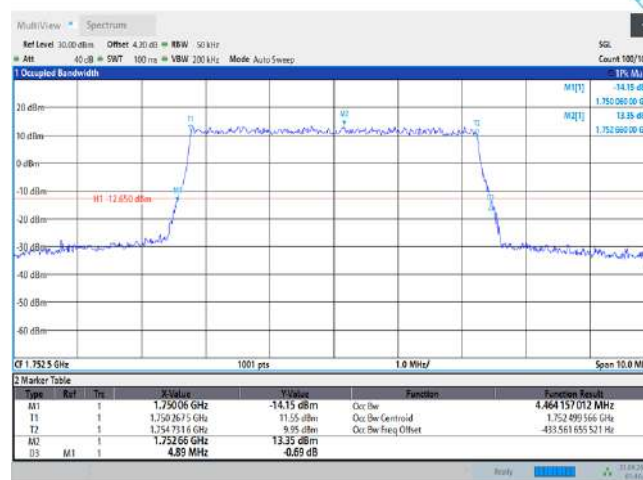
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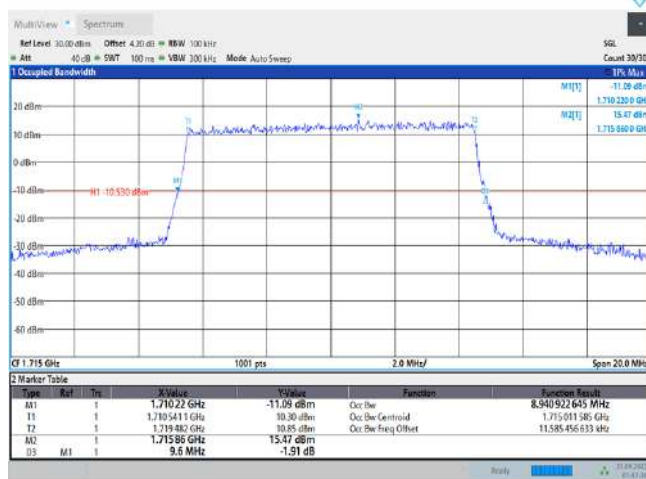
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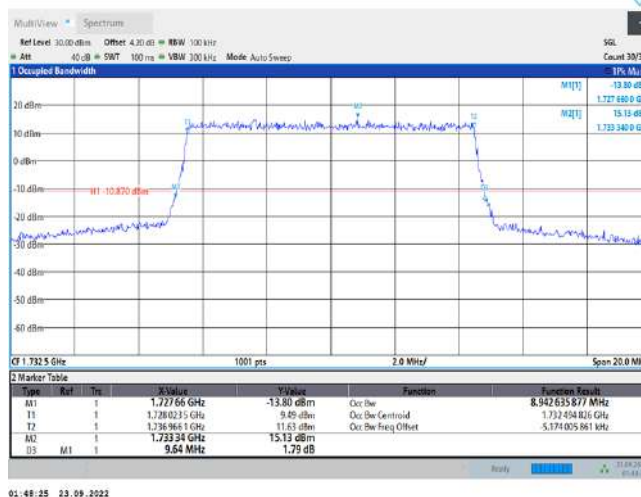
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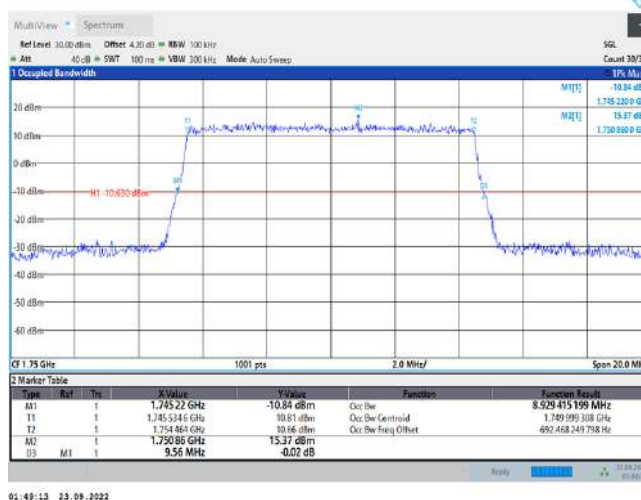
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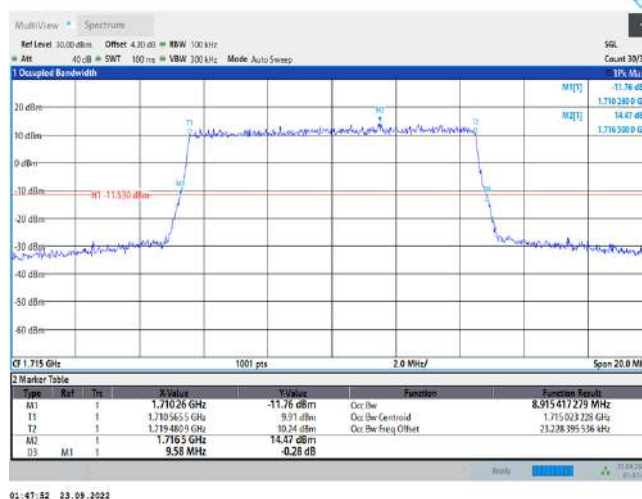
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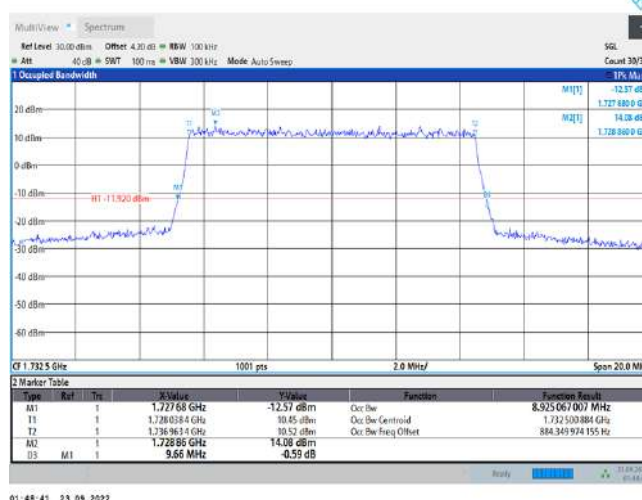
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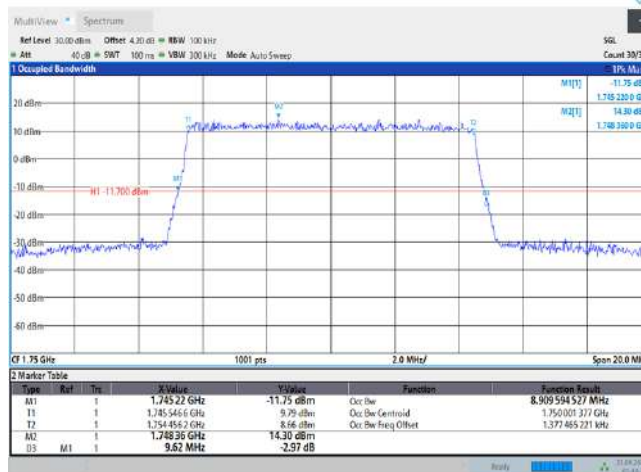
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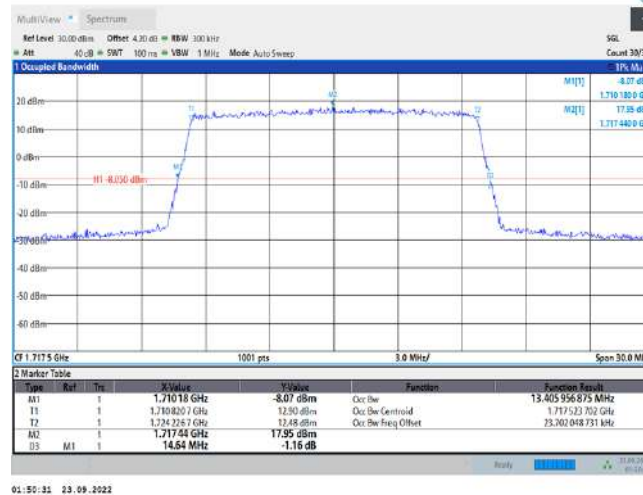
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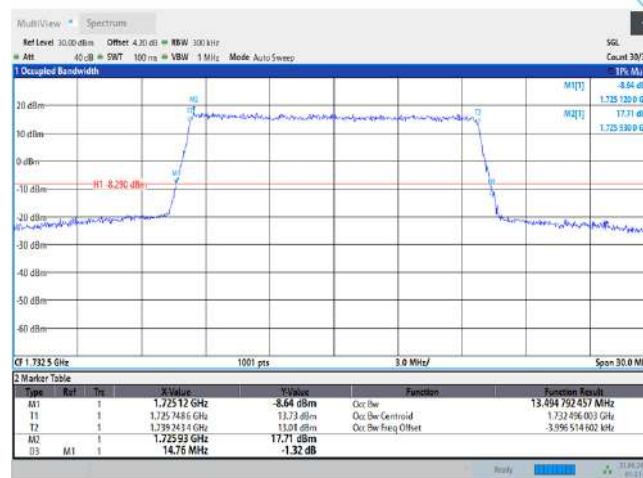
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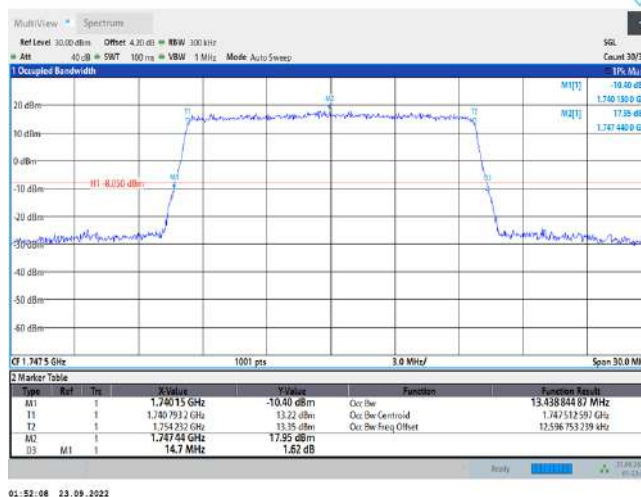
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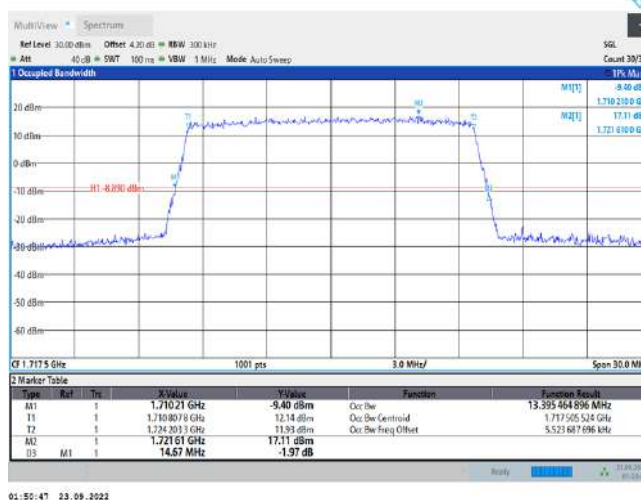
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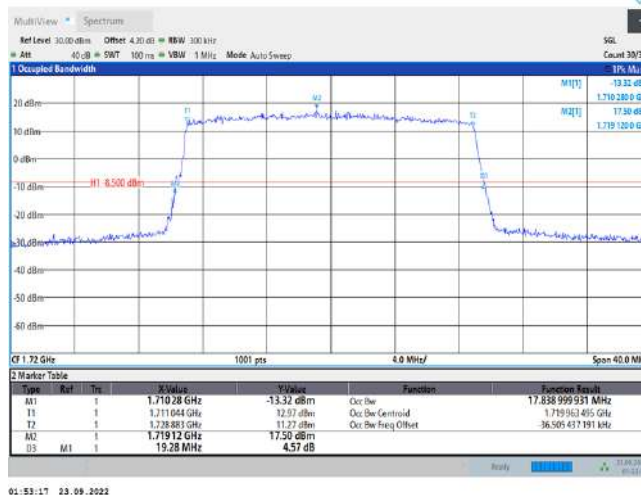
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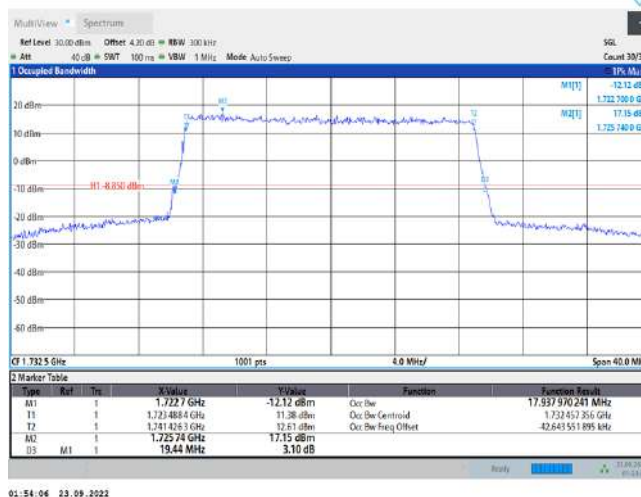
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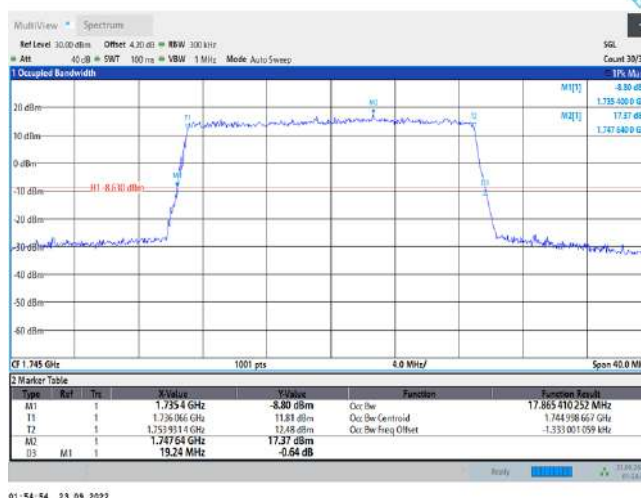
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Band4-20MHz-QPSK-20300-100RB#0



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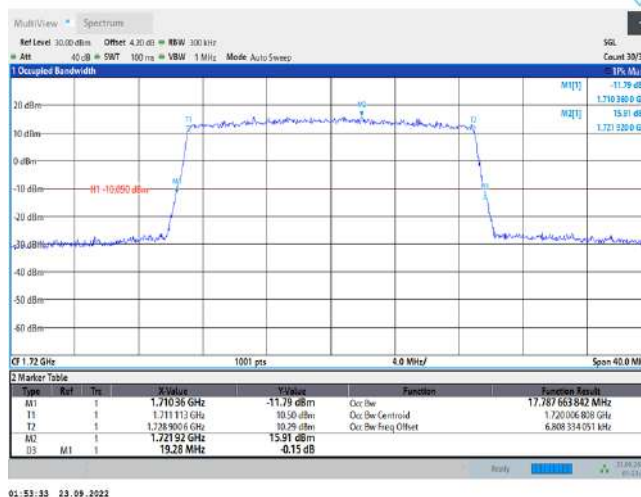
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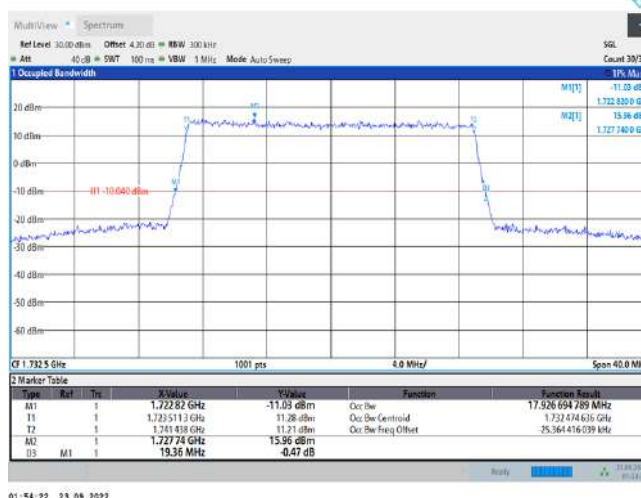
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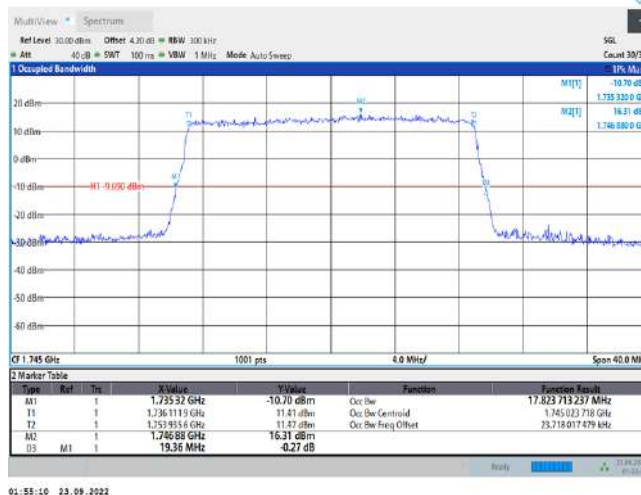
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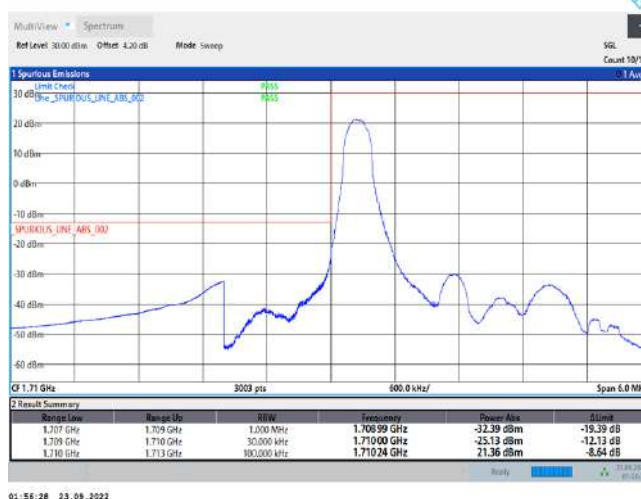
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Band Edge

Test Graphs

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



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



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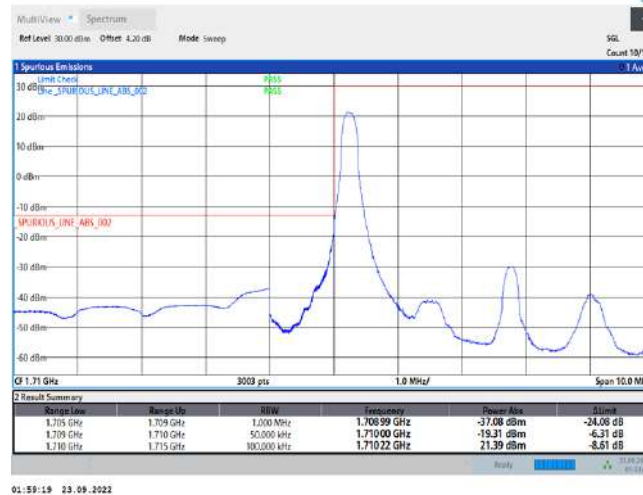
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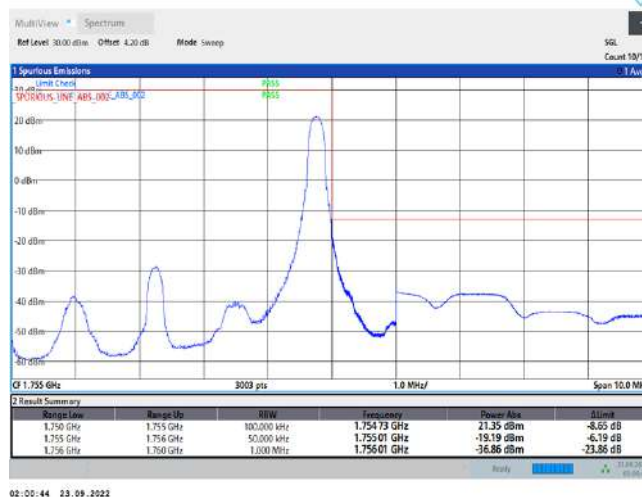
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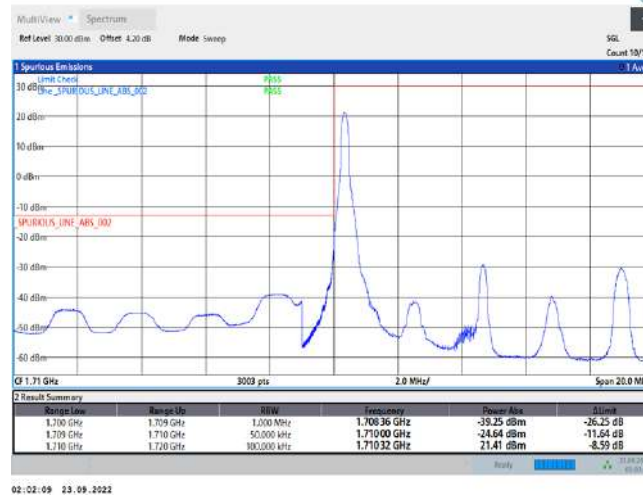
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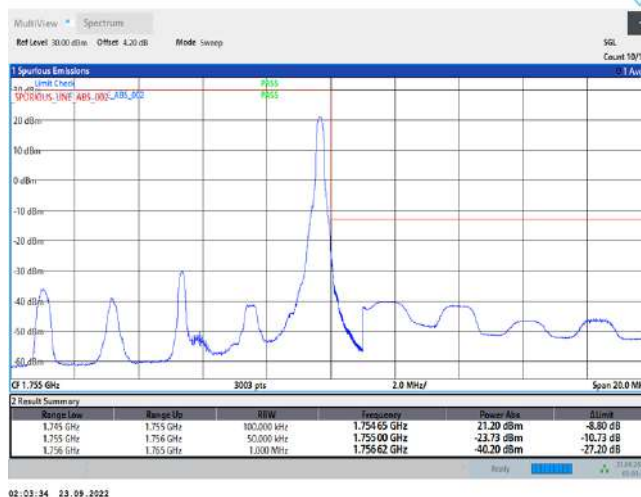
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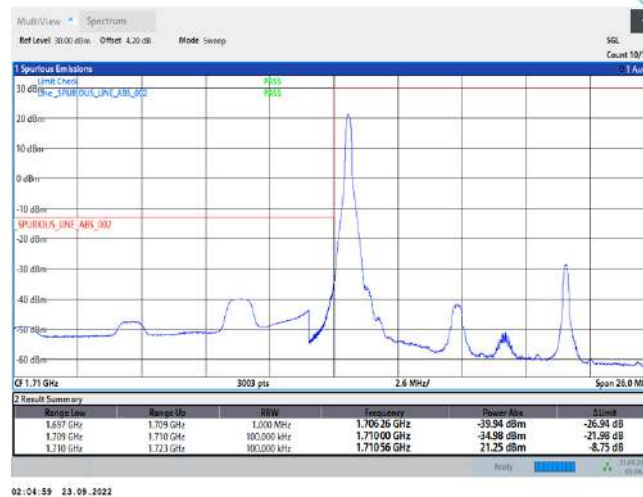
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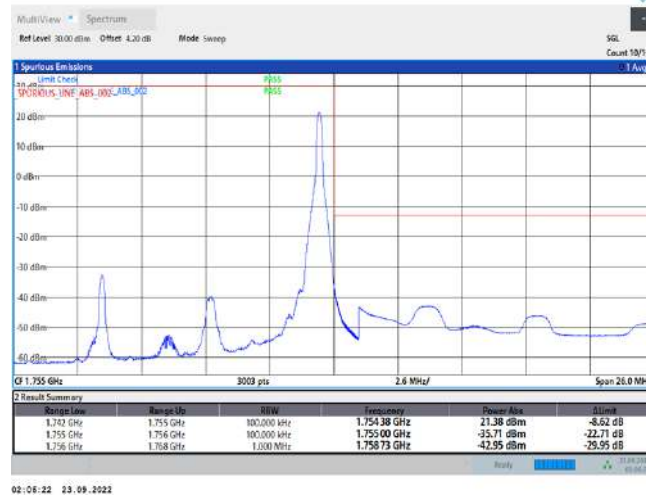
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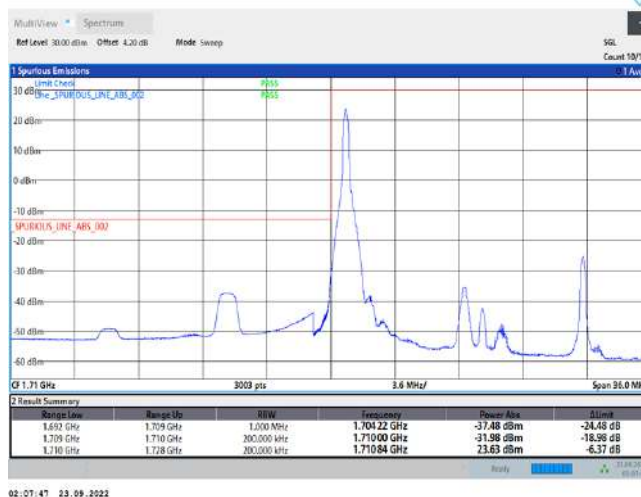
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Band4-15MHz-QPSK-20025-1RB#0



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



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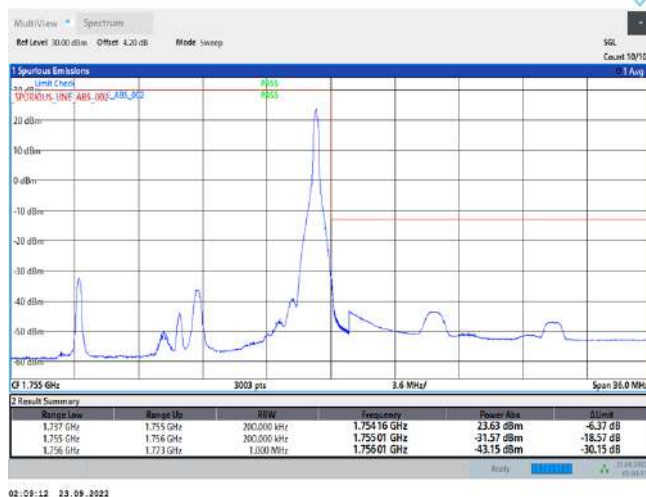
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Band4-15MHz-QPSK-20325-1RB#74



02:09:12 23.09.2022

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



02:09:35 23.09.2022



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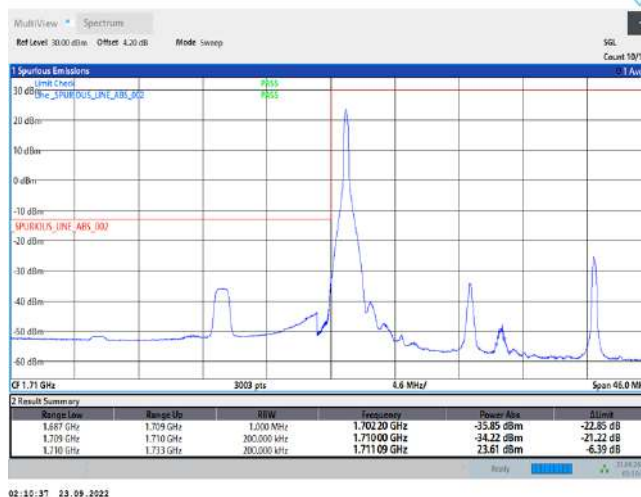
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Band4-20MHz-QPSK-20050-1RB#0



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



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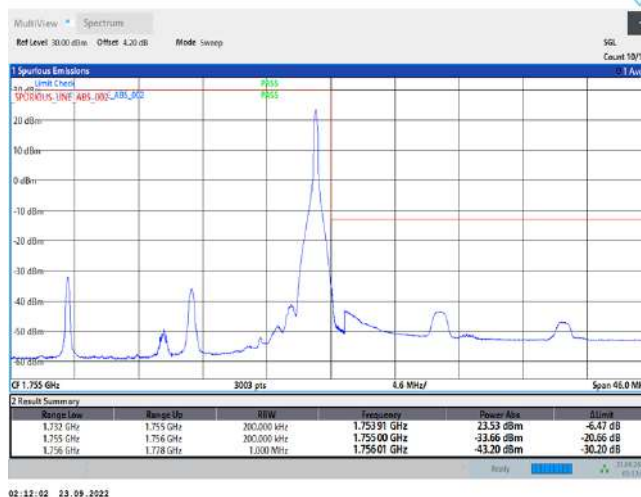
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Band4-20MHz-QPSK-20300-1RB#99



02:12:02 23.09.2022

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



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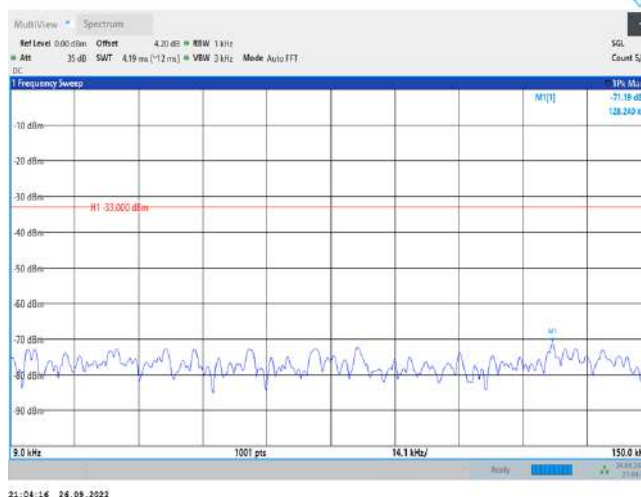
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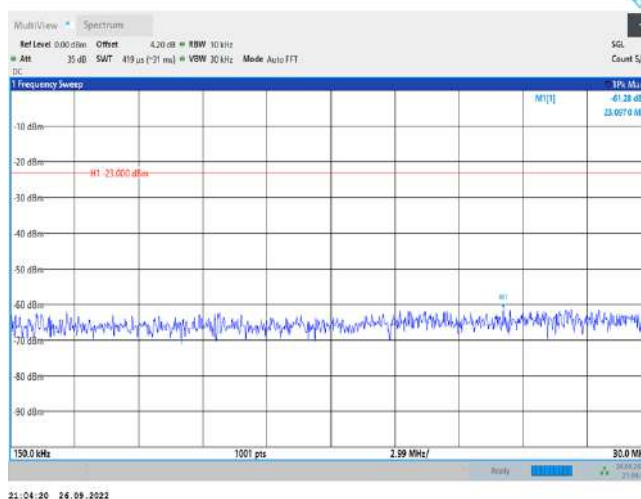
Conducted Spurious Emission

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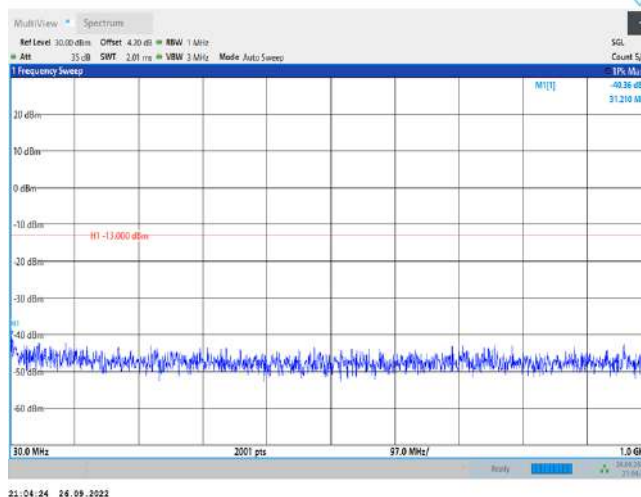
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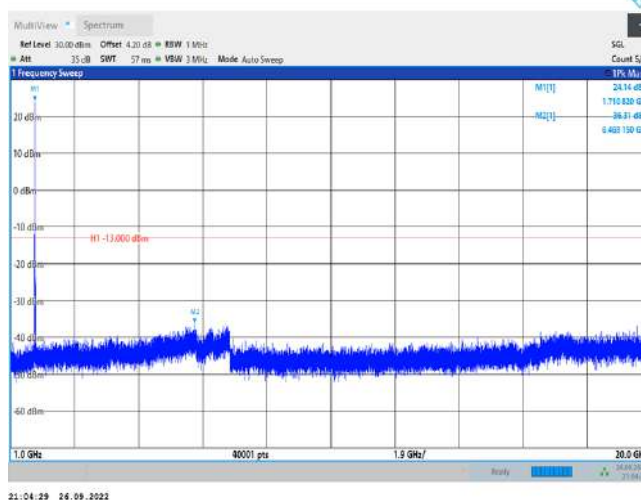
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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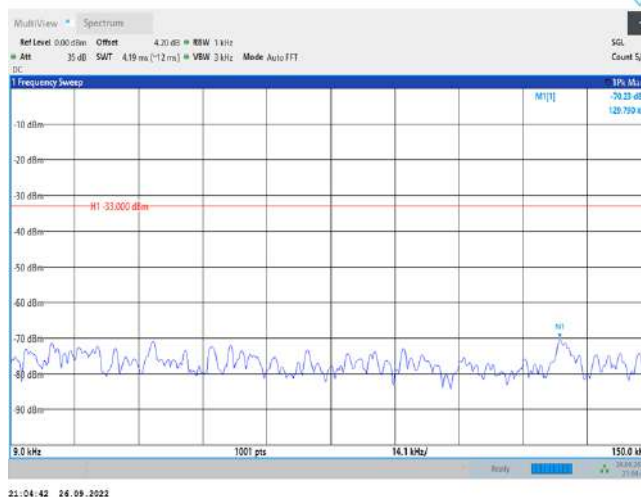
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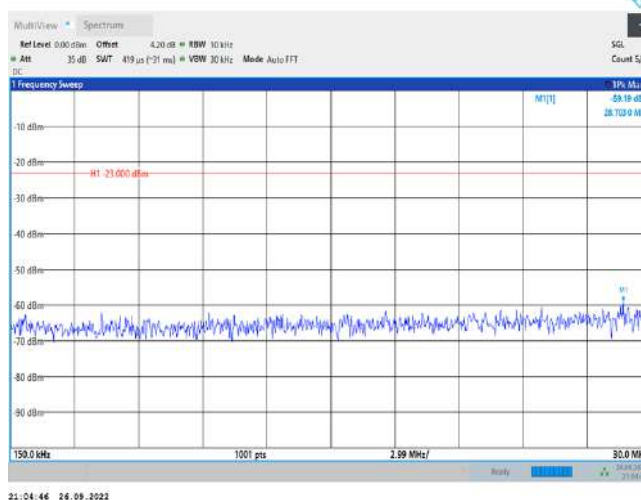
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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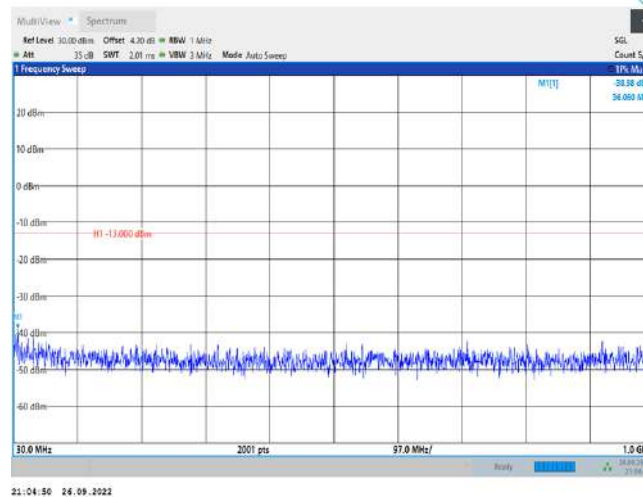
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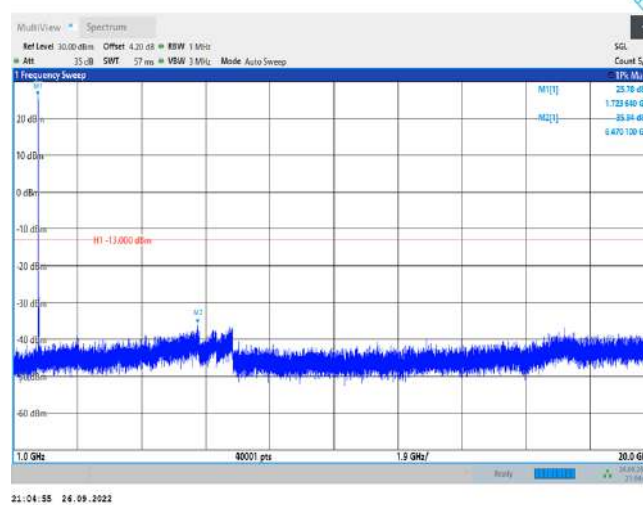
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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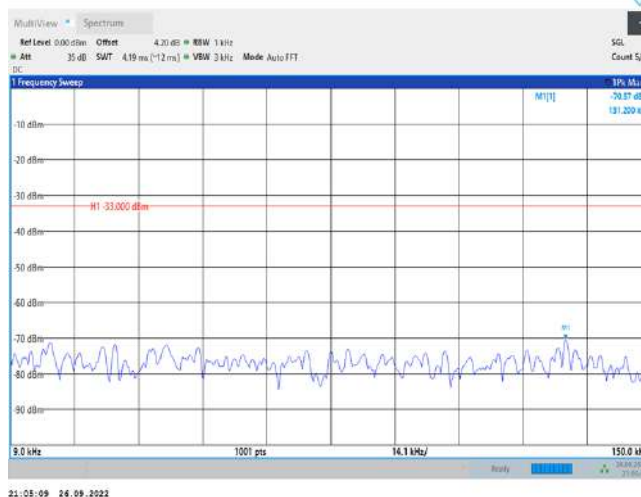
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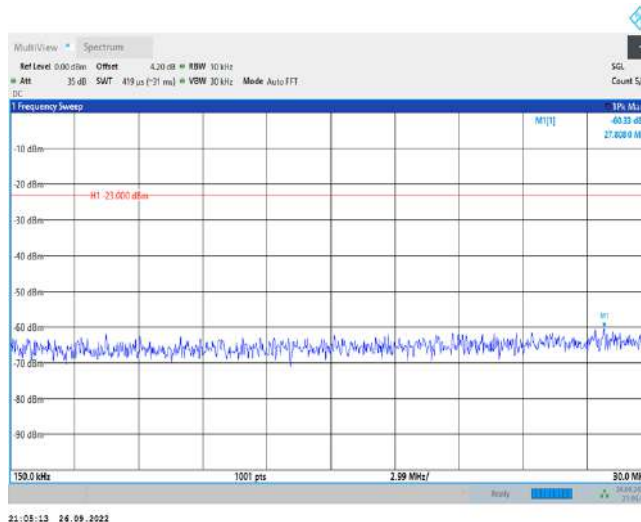
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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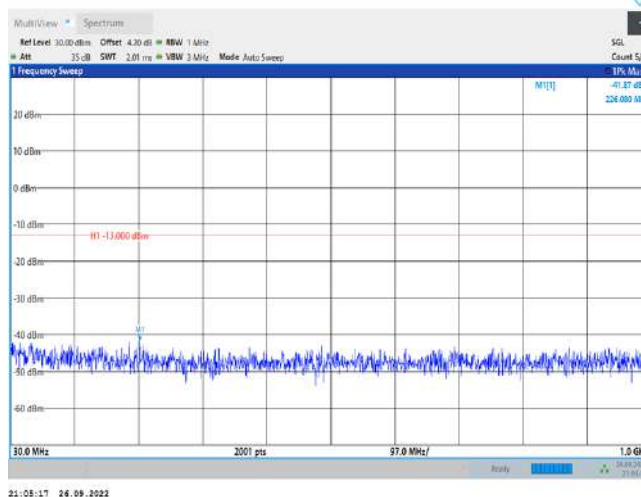
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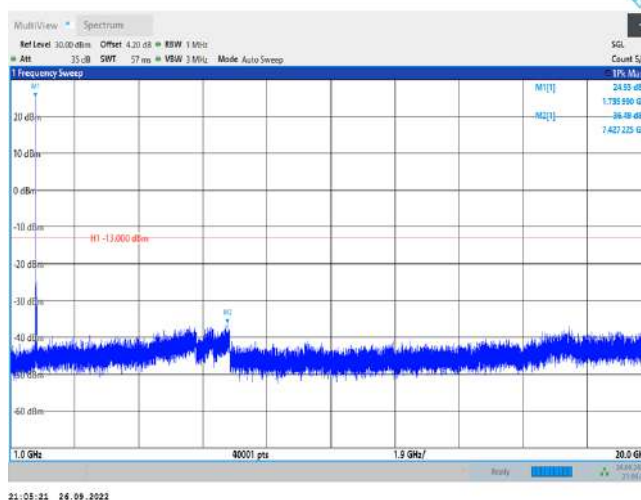
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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	63.49	-46.28	29.45	-48.60	-13.00	35.60	254	352	Horizontal
2	5133.2700	46.45	-45.34	32.95	-61.20	-13.00	48.20	184	225	Horizontal
3	6844.3600	47.59	-44.14	35.89	-55.92	-13.00	42.92	263	357	Horizontal
4	8555.4500	42.18	-41.46	37.66	-56.88	-13.00	43.88	266	14	Horizontal
5	10266.5400	35.64	-39.23	38.83	-60.02	-13.00	47.02	254	314	Horizontal
6	11977.6300	30.96	-37.51	38.95	-62.87	-13.00	49.87	198	194	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	59.06	-46.28	29.45	-53.03	-13.00	40.03	235	3	Vertical
2	5133.2700	47.31	-45.34	32.95	-60.34	-13.00	47.34	233	222	Vertical
3	6844.3600	52.26	-44.14	35.89	-51.25	-13.00	38.25	215	87	Vertical
4	8555.4500	43.16	-41.46	37.66	-55.90	-13.00	42.90	249	13	Vertical
5	10266.5400	35.64	-39.23	38.83	-60.02	-13.00	47.02	122	282	Vertical
6	11977.6300	30.74	-37.51	38.95	-63.09	-13.00	50.09	168	360	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	59.27	-46.27	29.47	-52.79	-13.00	39.79	222	351	Horizontal
2	5170.7700	47.29	-45.31	32.97	-60.30	-13.00	47.30	145	360	Horizontal
3	6894.3600	46.21	-44.10	35.95	-57.20	-13.00	44.20	198	343	Horizontal
4	8617.9500	41.65	-41.40	37.78	-57.23	-13.00	44.23	145	351	Horizontal
5	10341.5400	35.16	-39.06	38.85	-60.31	-13.00	47.31	125	351	Horizontal
6	12065.1300	33.13	-37.44	39.02	-60.55	-13.00	47.55	163	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	3447	55.24	-46.27	29.47	-56.82	-13.00	43.82	254	313	Vertical
2	5170.7700	48.23	-45.31	32.97	-59.36	-13.00	46.36	186	299	Vertical
3	6894.3600	48.37	-44.10	35.95	-55.04	-13.00	42.04	142	90	Vertical
4	8617.9500	42.81	-41.40	37.78	-56.07	-13.00	43.07	136	240	Vertical
5	10341.5400	35.50	-39.06	38.85	-59.97	-13.00	46.97	219	359	Vertical
6	12065.1300	31.94	-37.44	39.02	-61.74	-13.00	48.74	165	255	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	64.74	-46.27	29.50	-47.29	-13.00	34.29	184	352	Horizontal
2	5208.2700	47.92	-45.26	32.98	-59.62	-13.00	46.62	195	151	Horizontal
3	6944.3600	47.40	-43.85	36.01	-55.70	-13.00	42.70	145	4	Horizontal
4	8680.4500	41.69	-41.62	37.88	-57.31	-13.00	44.31	162	60	Horizontal
5	10416.5400	36.47	-38.97	38.88	-58.89	-13.00	45.89	175	46	Horizontal
6	12152.6300	32.11	-37.42	39.09	-61.48	-13.00	48.48	149	31	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	3471.75	57.25	-46.27	29.49	-54.78	-13.00	41.78	211	13	Vertical
2	5208.2700	48.25	-45.26	32.98	-59.29	-13.00	46.29	132	13	Vertical
3	6944.3600	51.39	-43.85	36.01	-51.71	-13.00	38.71	221	90	Vertical
4	8680.4500	42.38	-41.62	37.88	-56.62	-13.00	43.62	163	209	Vertical
5	10416.5400	34.75	-38.97	38.88	-60.61	-13.00	47.61	214	178	Vertical
6	12152.6300	33.05	-37.42	39.09	-60.54	-13.00	47.54	198	313	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	12.00	0.006926	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	2.40	0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	5.20	0.003001	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.30	0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	3.70	0.002136	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	10.00	0.005772	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-4.10	-0.002367	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.10	-0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	3.70	0.002136	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	4.80	0.002771	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	11.80	0.006811	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	10.80	0.006234	PASS

---End of Attachment---



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