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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	24.11	25.58	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.14	25.61	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.13	25.6	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.29	24.76	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	24.06	25.53	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.13	25.6	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.08	25.55	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.19	24.66	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.96	25.43	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.06	25.53	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.01	25.48	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.13	24.6	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.29	24.76	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.45	24.92	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.33	24.8	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.34	23.81	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.42	24.89	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.43	24.9	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.42	24.89	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.27	23.74	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.26	24.73	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.27	24.74	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.18	24.65	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.21	23.68	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.12	25.59	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.28	25.75	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.11	25.58	30.00	PASS



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Band4	3MHz	QPSK	19965	15RB#0	23.33	24.8	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.10	25.57	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.19	25.66	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.11	25.58	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.24	24.71	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.01	25.48	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.15	25.62	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.03	25.5	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.22	24.69	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.40	24.87	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.40	24.87	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.41	24.88	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.35	23.82	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.32	24.79	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.48	24.95	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.34	24.81	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.28	23.75	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.27	24.74	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.42	24.89	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.33	24.8	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.23	23.7	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.97	25.44	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.19	25.66	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.92	25.39	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.29	24.76	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.92	25.39	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.15	25.62	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.93	25.4	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.16	24.63	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.86	25.33	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.08	25.55	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.88	25.35	30.00	PASS



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Band4	5MHz	QPSK	20375	25RB#0	23.13	24.6	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.22	24.69	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.37	24.84	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.23	24.7	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.28	23.75	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.16	24.63	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.43	24.9	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.22	24.69	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.25	23.72	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.22	24.69	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.35	24.82	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.10	24.57	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.15	23.62	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.36	24.83	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.06	25.53	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.47	24.94	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.00	24.47	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.36	24.83	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.05	25.52	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.44	24.91	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.91	24.38	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.37	24.84	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.91	25.38	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.39	24.86	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.93	24.4	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.75	24.22	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.48	24.95	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.66	24.13	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.98	23.45	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.86	24.33	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.21	24.68	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.65	24.12	30.00	PASS



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Band4	10MHz	16QAM	20175	50RB#0	21.96	23.43	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.79	24.26	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.32	24.79	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.62	24.09	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.93	23.4	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.89	25.36	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	24.17	25.64	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.97	25.44	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.18	24.65	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.91	25.38	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.19	25.66	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.90	25.37	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.23	24.7	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.82	25.29	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.20	25.67	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.79	25.26	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.18	24.65	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.16	24.63	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.49	24.96	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.33	24.8	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.23	23.7	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.13	24.6	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.61	25.08	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.33	24.8	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.29	23.76	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.18	24.65	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.50	24.97	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.13	24.6	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.20	23.67	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.51	24.98	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.19	25.66	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.52	24.99	30.00	PASS



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Band4	20MHz	QPSK	20175	1RB#0	23.53	25	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.22	25.69	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.53	25	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.13	24.6	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.45	24.92	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.15	25.62	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.52	24.99	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.05	24.52	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.79	24.26	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.55	25.02	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.02	24.49	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.11	23.58	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.93	24.4	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.51	24.98	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.85	24.32	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.12	23.59	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.88	24.35	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.36	24.83	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.84	24.31	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.11	23.58	30.00	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	4.92	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.24	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.10	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.82	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.04	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.00	13	PASS



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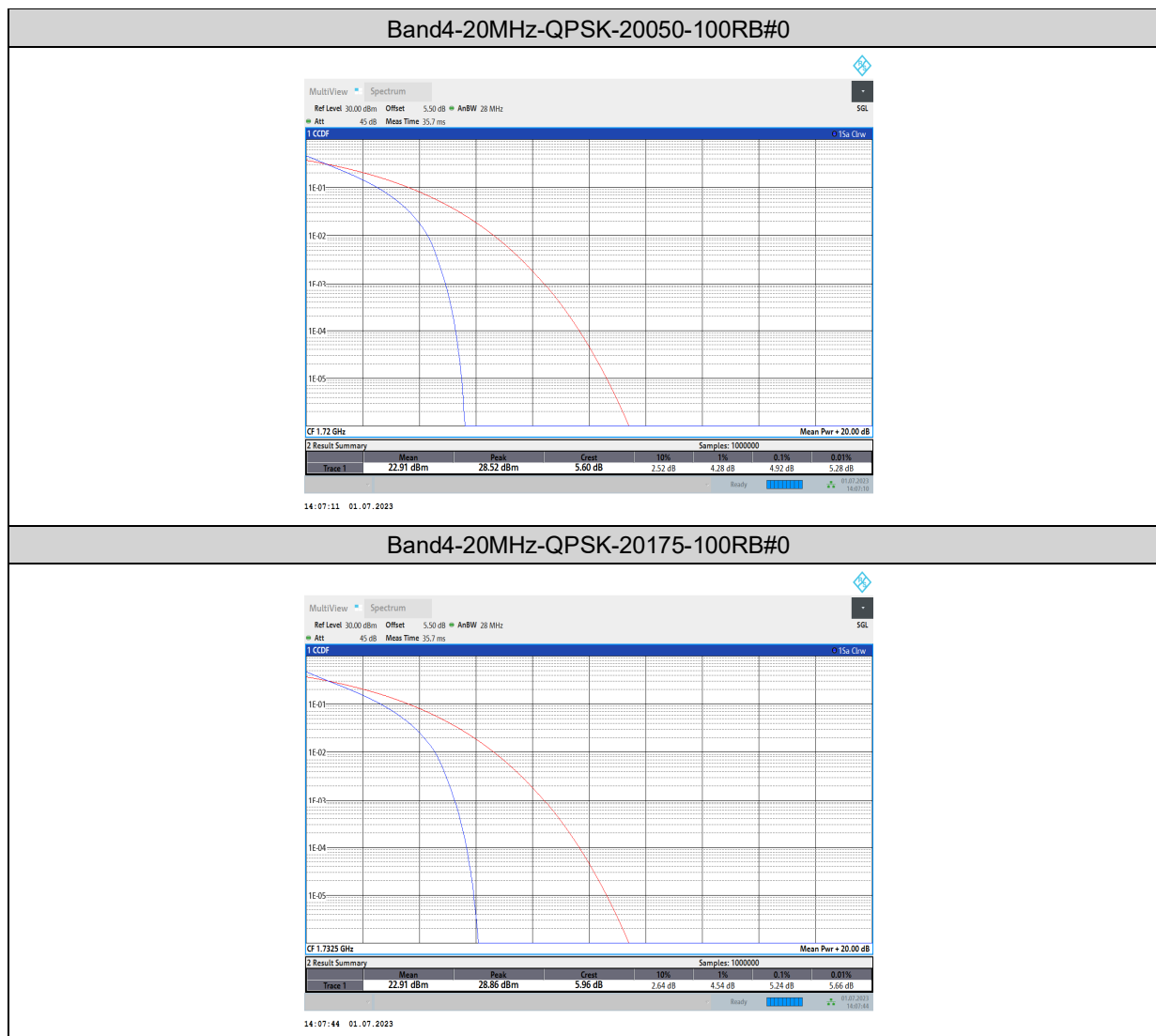
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Test Graphs



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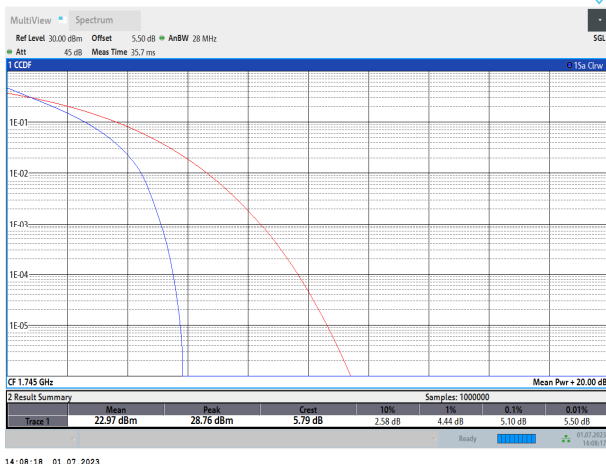
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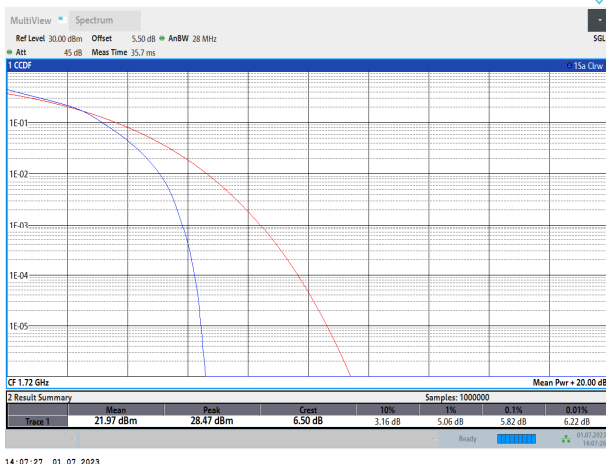
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Band4-20MHz-QPSK-20300-100RB#0



14:08:18 01.07.2023

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



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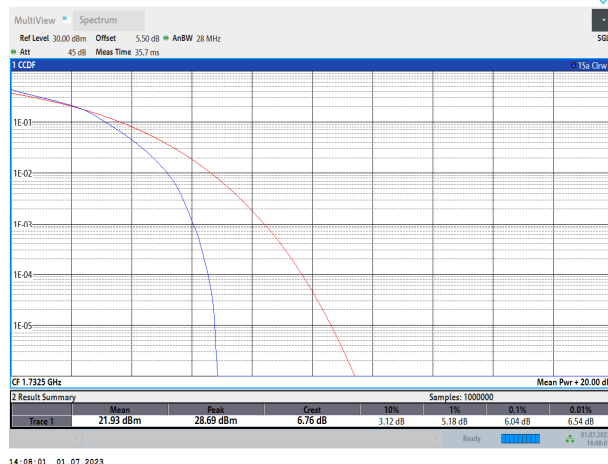
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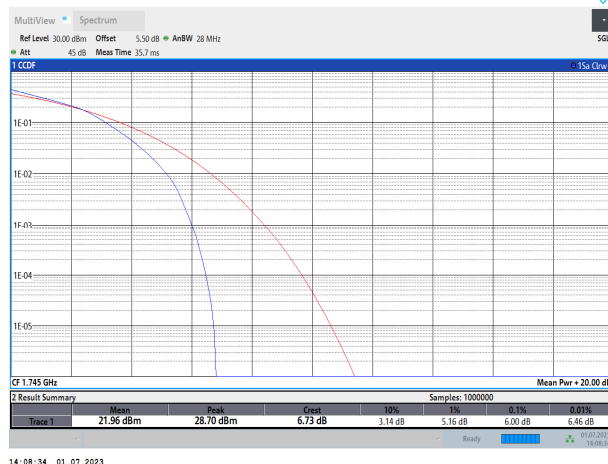
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Band4-20MHz-16QAM-20175-100RB#0



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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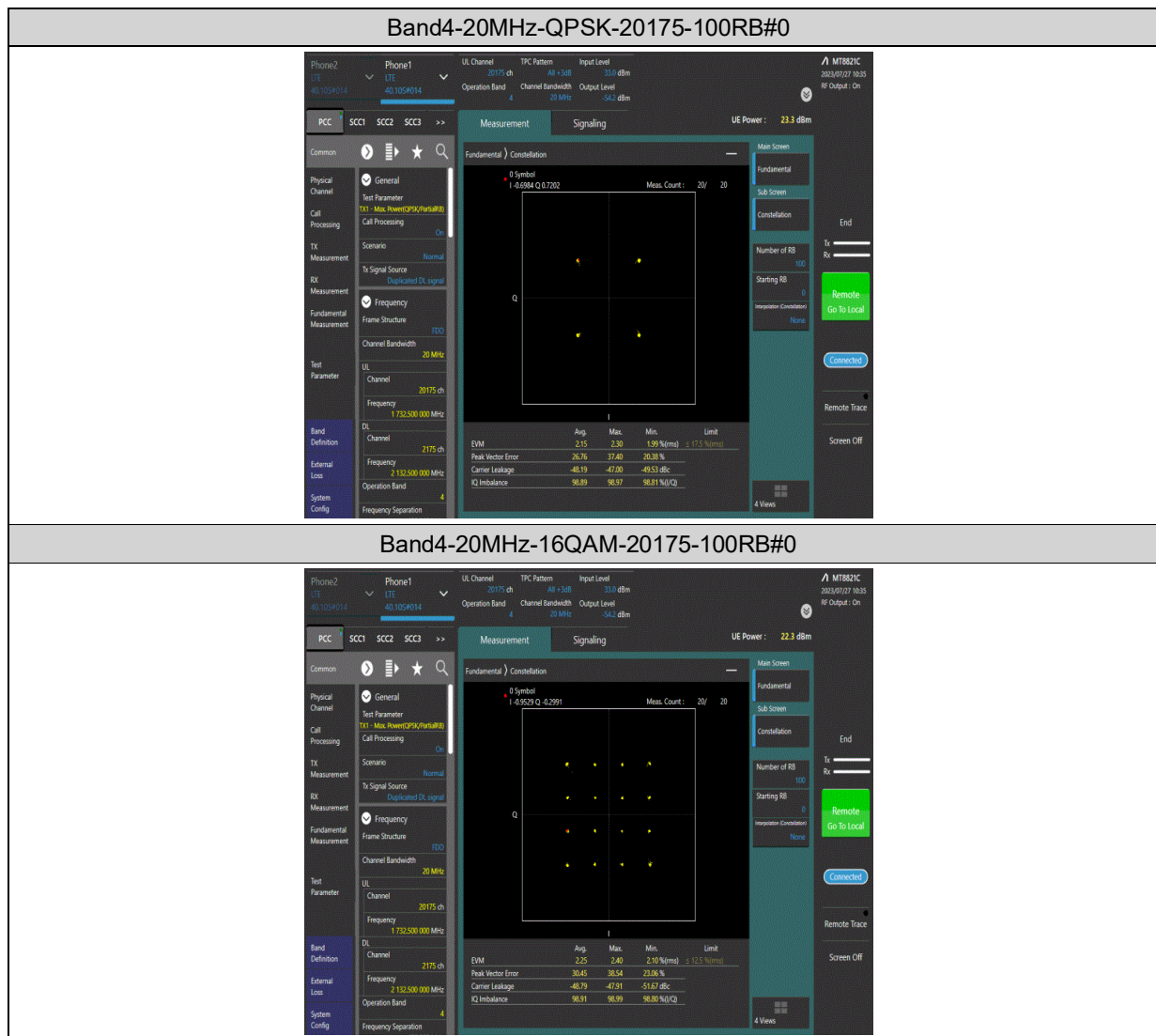
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Test Graphs



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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	1.24	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.087	1.24	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.086	1.24	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.093	1.25	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.093	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.97	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.693	2.98	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	2.98	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.688	2.99	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.687	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.689	3.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.47	4.87	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.472	4.87	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.47	4.88	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.472	4.91	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.471	4.91	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.468	4.91	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.929	9.66	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.924	9.66	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.929	9.70	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.919	9.60	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.926	9.62	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.914	9.64	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.467	14.79	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.484	14.79	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.475	14.76	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.447	14.70	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.471	14.82	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.449	14.82	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.913	19.36	PASS



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Band4	20MHz	QPSK	20175	100RB#0	17.949	19.60	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.931	19.56	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.876	19.44	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.915	19.48	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.891	19.40	PASS



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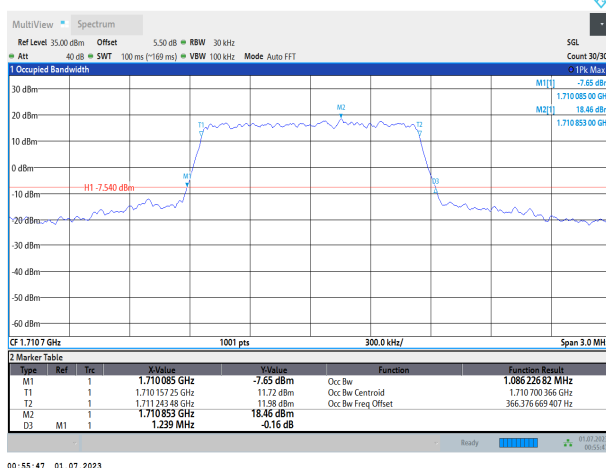
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Test Graphs

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



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



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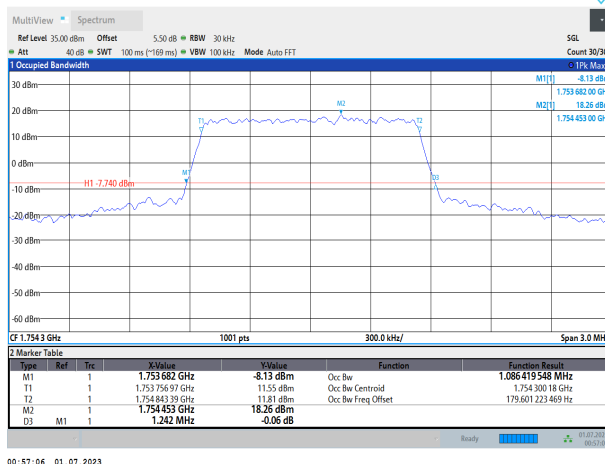


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Band4-1.4MHz-16QAM-19957-6RB#0



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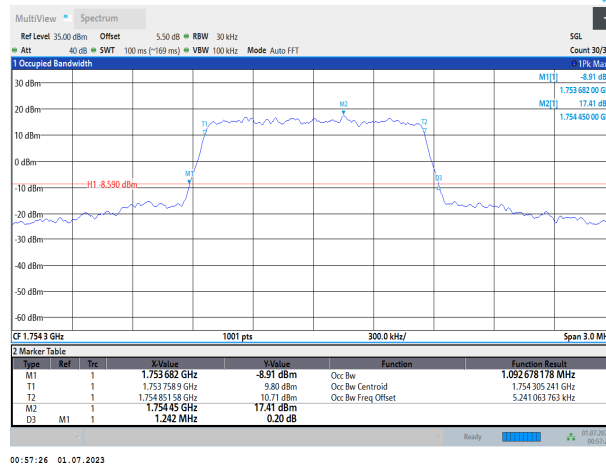
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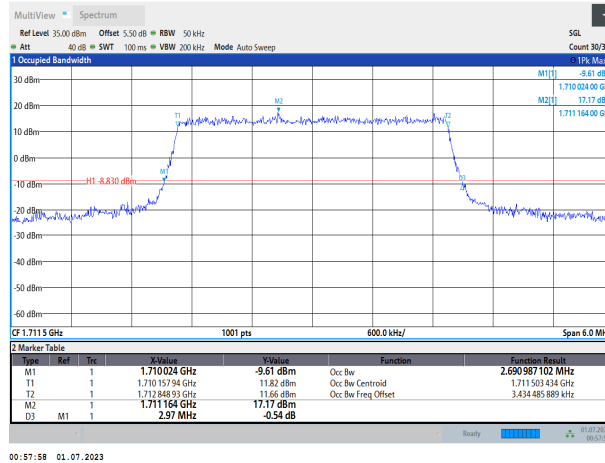
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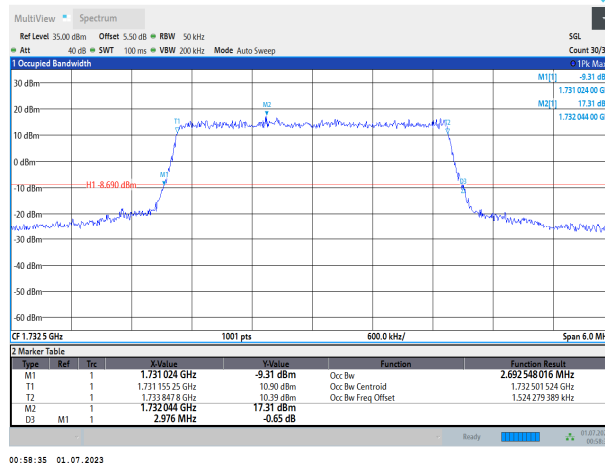
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Band4-3MHz-QPSK-19965-15RB#0



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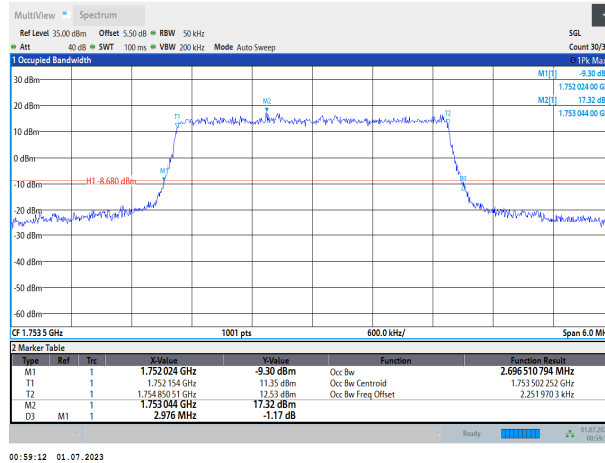
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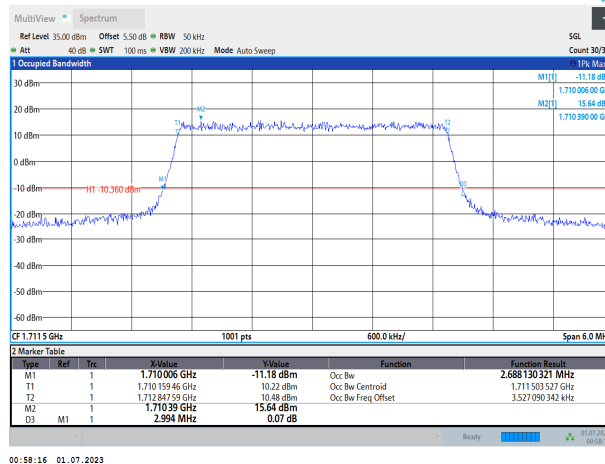
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Band4-3MHz-QPSK-20385-15RB#0



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



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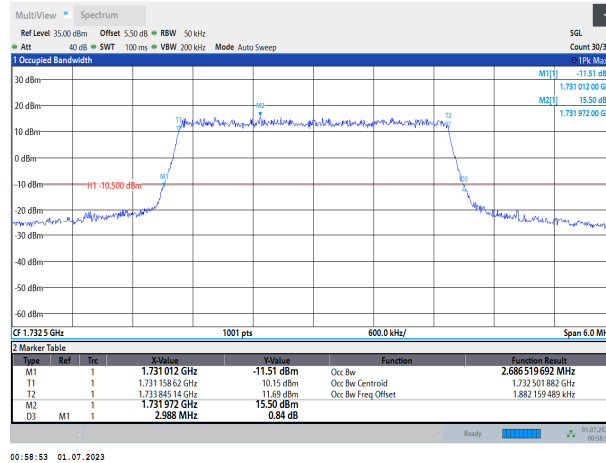


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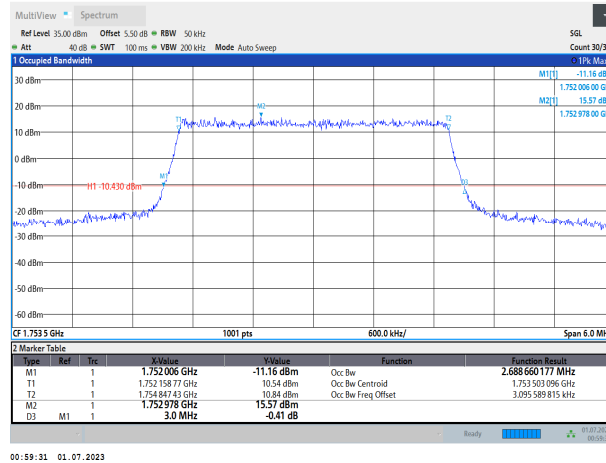
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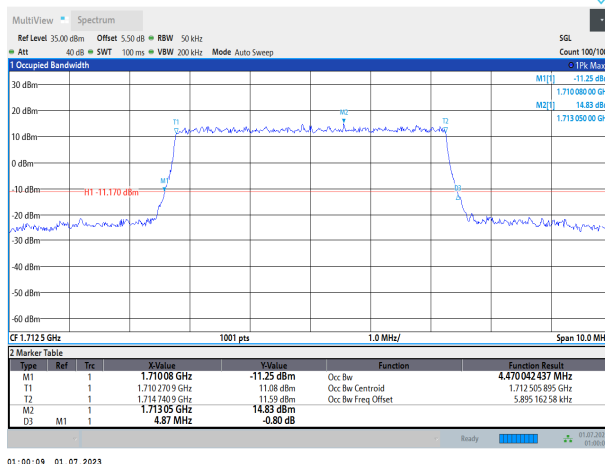
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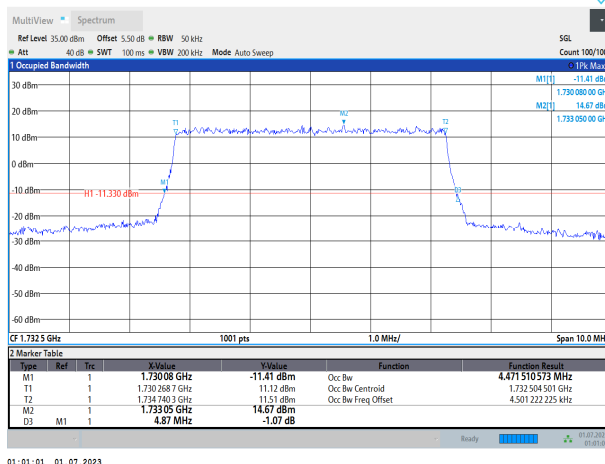
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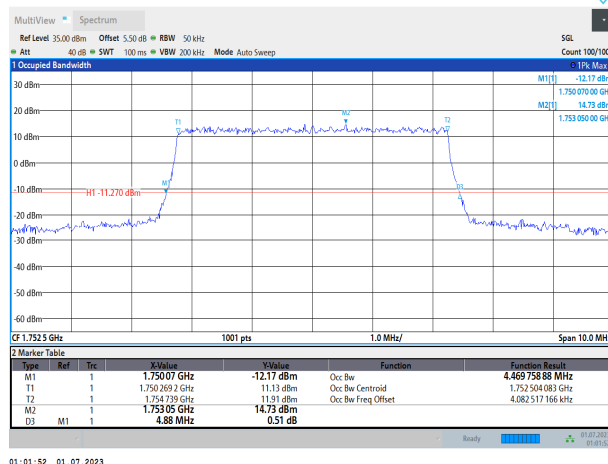
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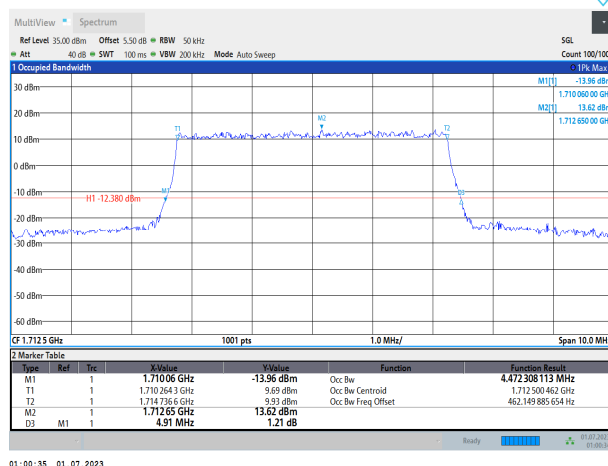
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Band4-5MHz-QPSK-20375-25RB#0



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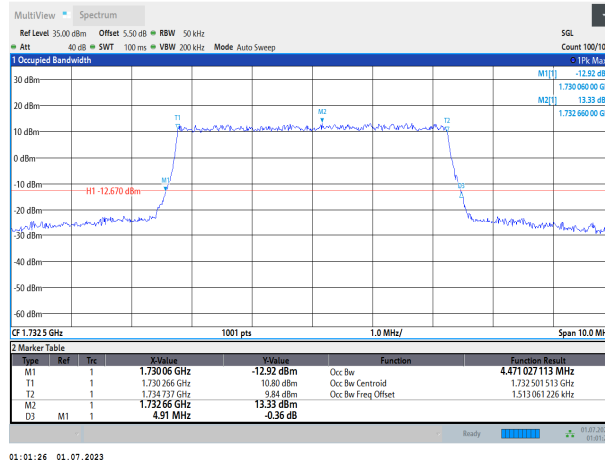
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Band4-5MHz-16QAM-20375-25RB#0



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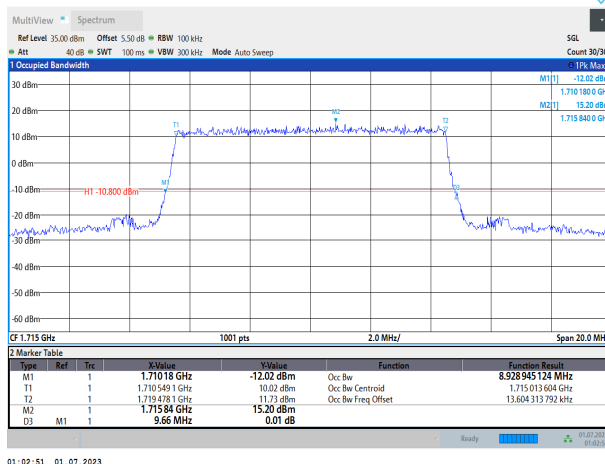


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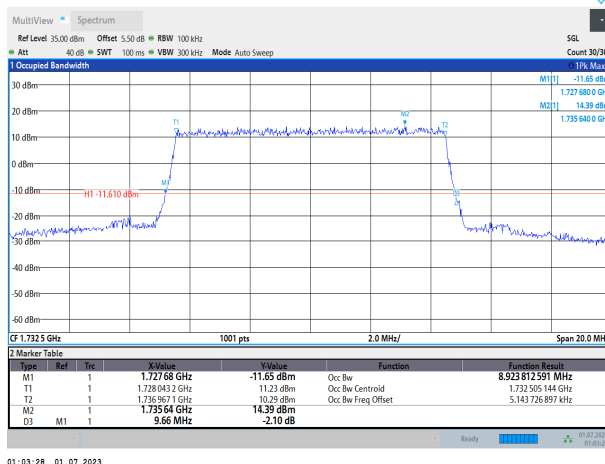
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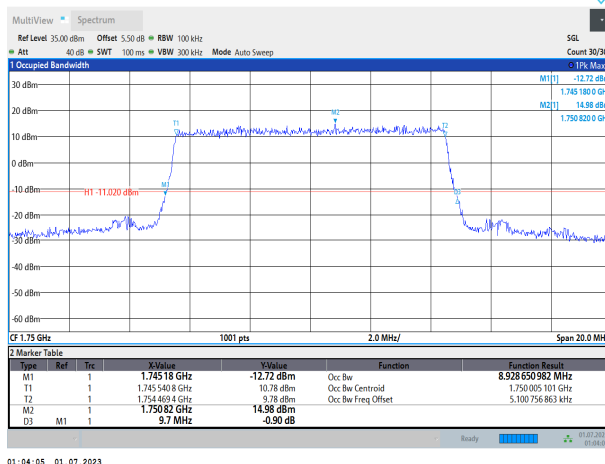


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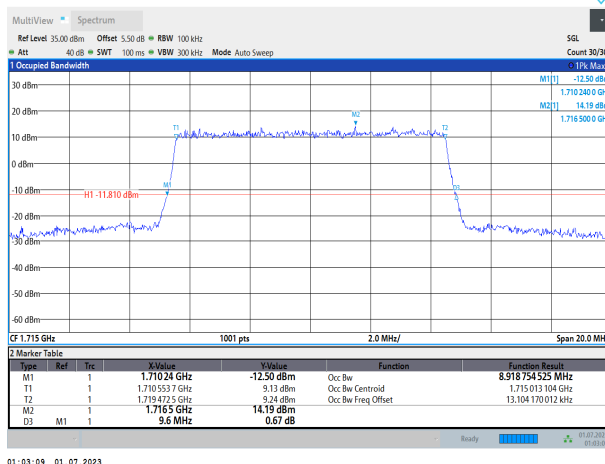
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Band4-10MHz-16QAM-20000-50RB#0



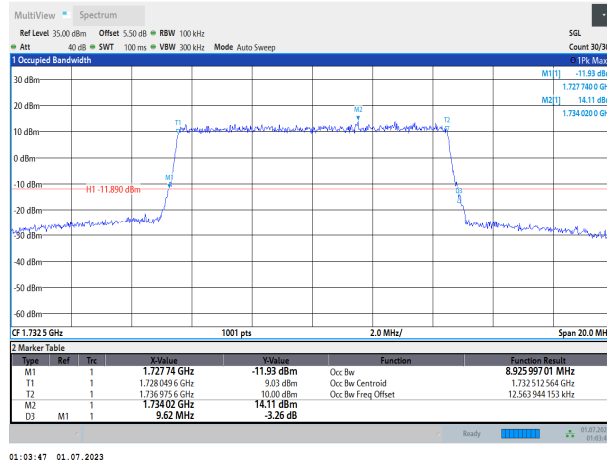
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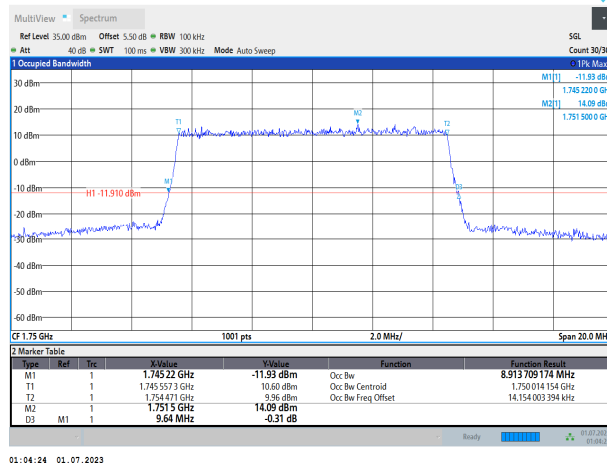
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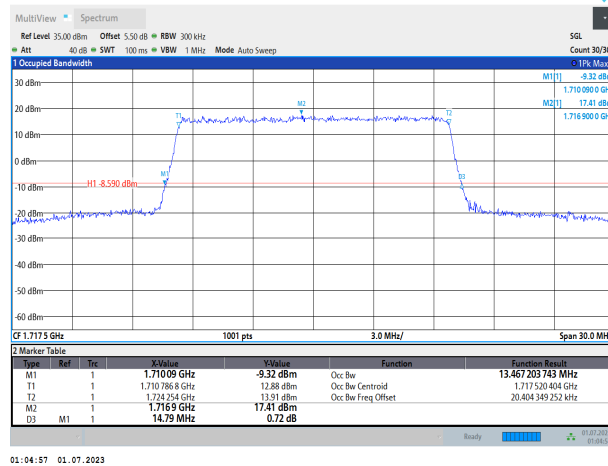


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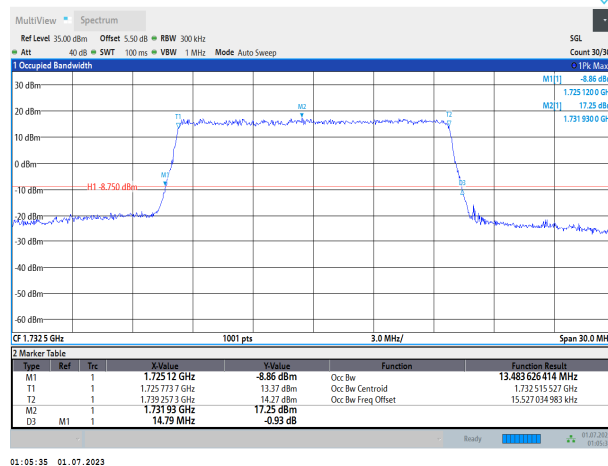
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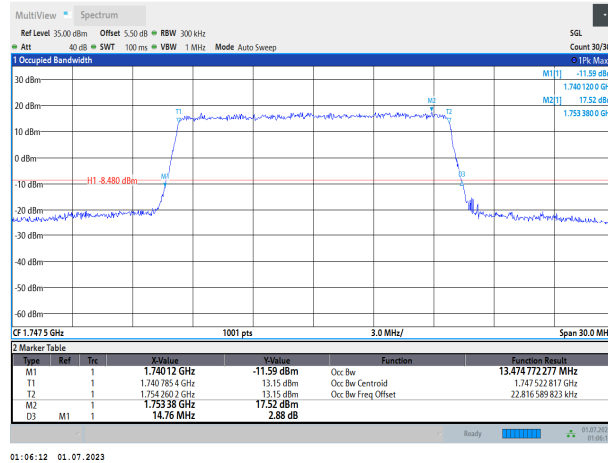


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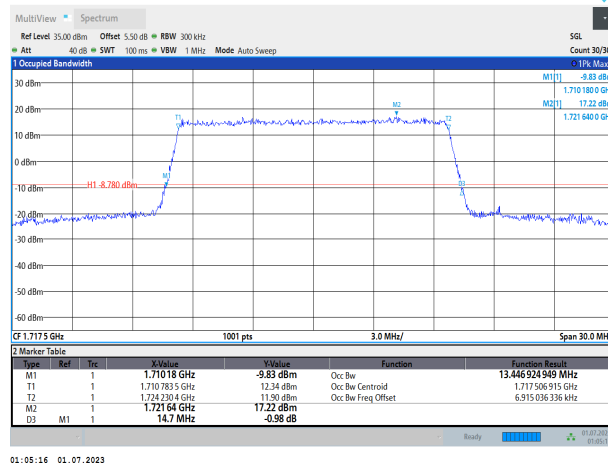
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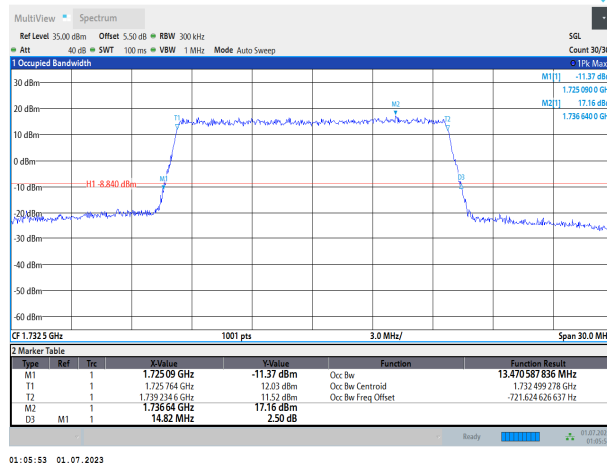


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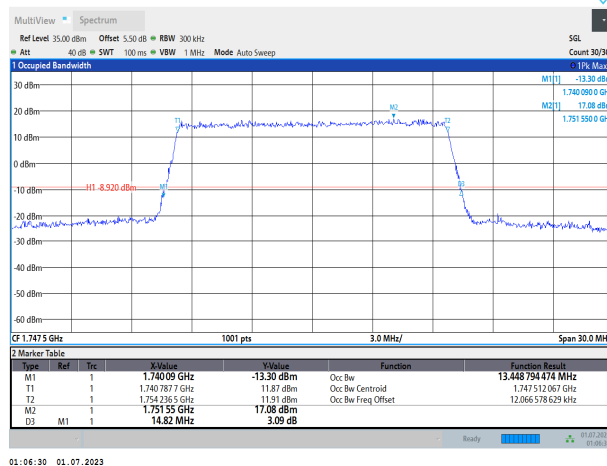
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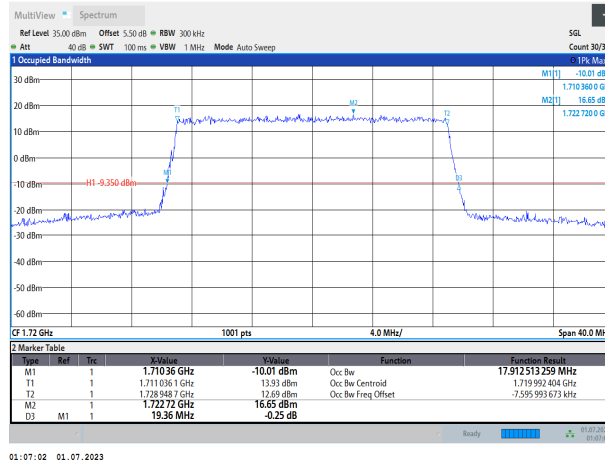
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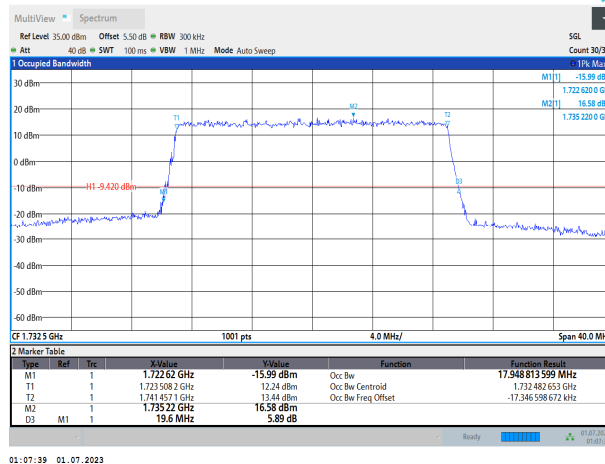
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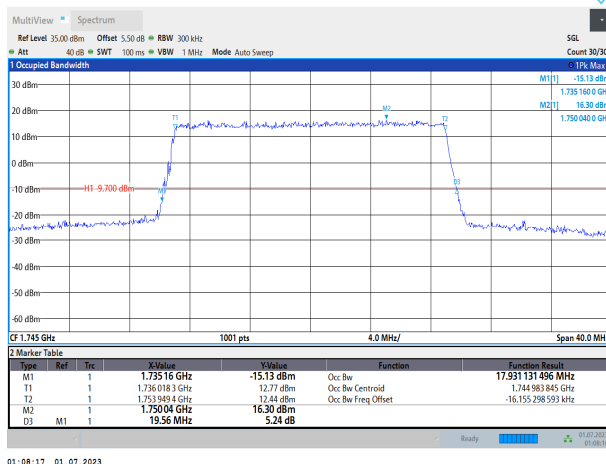


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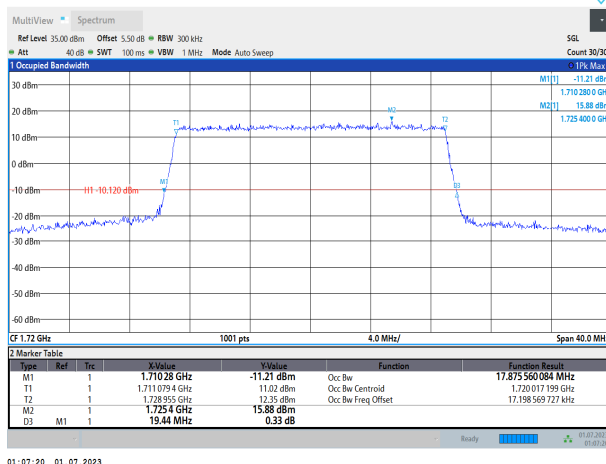
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Band4-20MHz-QPSK-20300-100RB#0



01:04:17 01.07.2023

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



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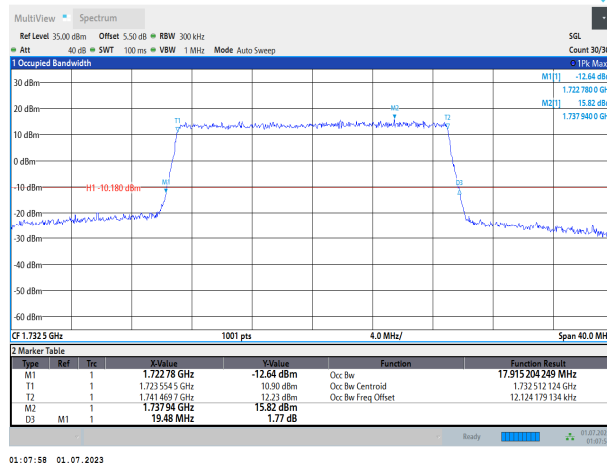


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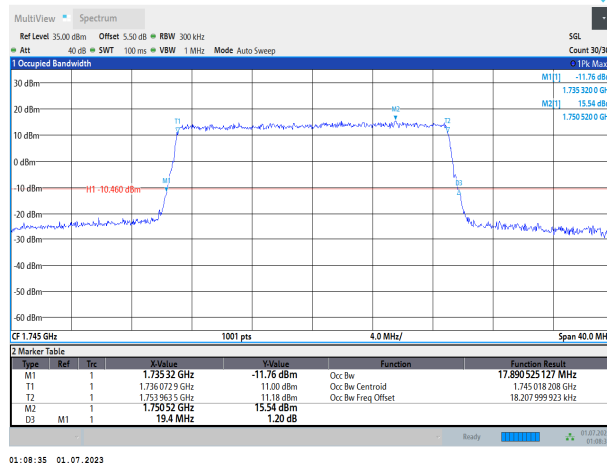
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Band4-20MHz-16QAM-20175-100RB#0



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



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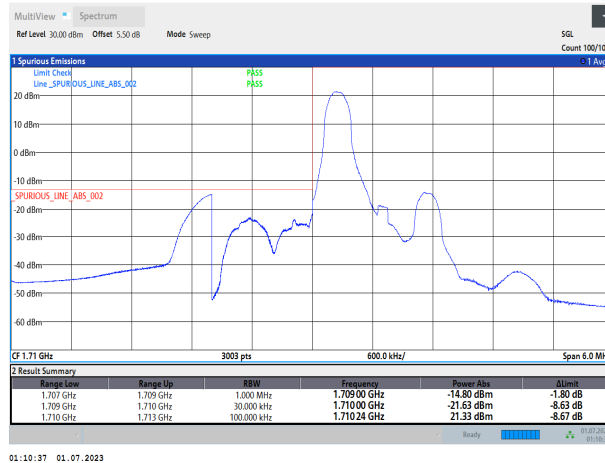
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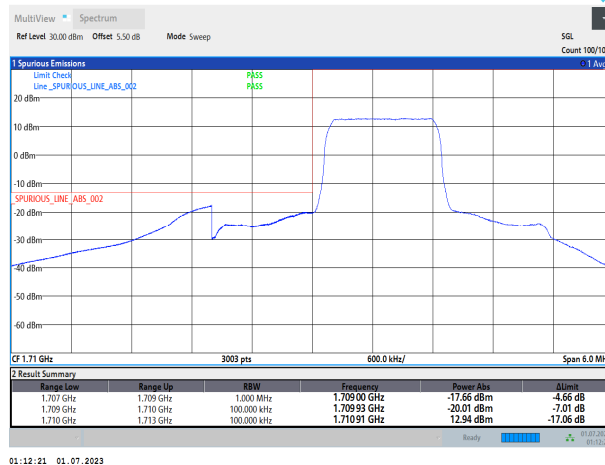
Band Edge

Test Graphs

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



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



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



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



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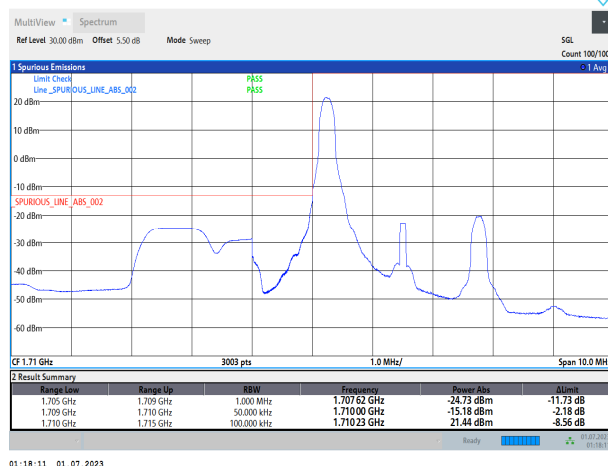


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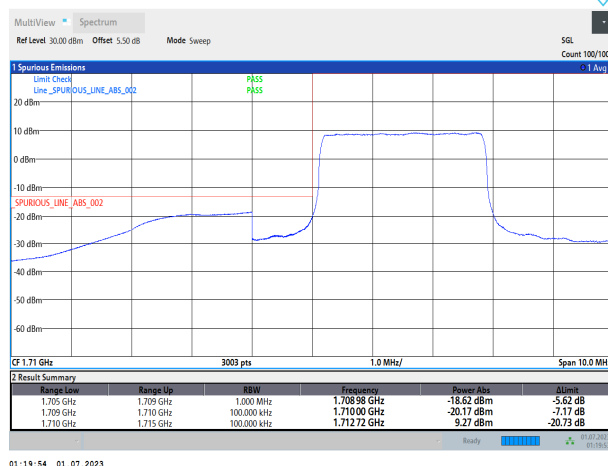
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Band4-3MHz-QPSK-19965-1RB#0



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



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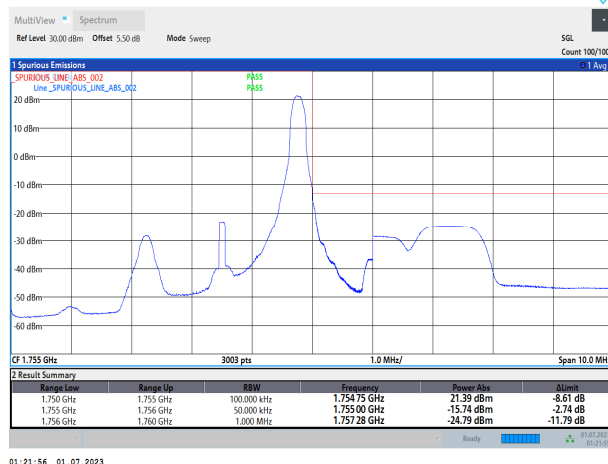


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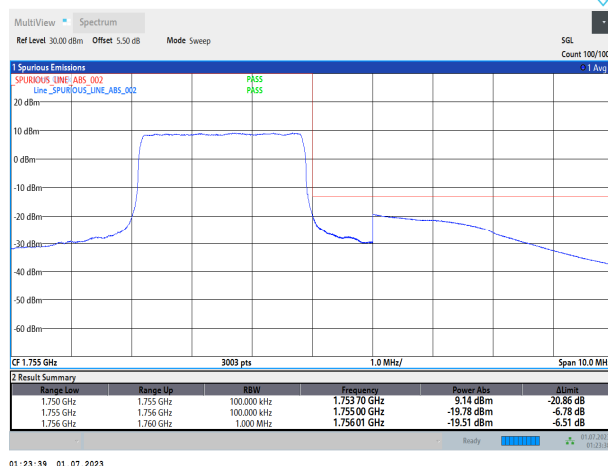
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Band4-3MHz-QPSK-20385-1RB#14



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



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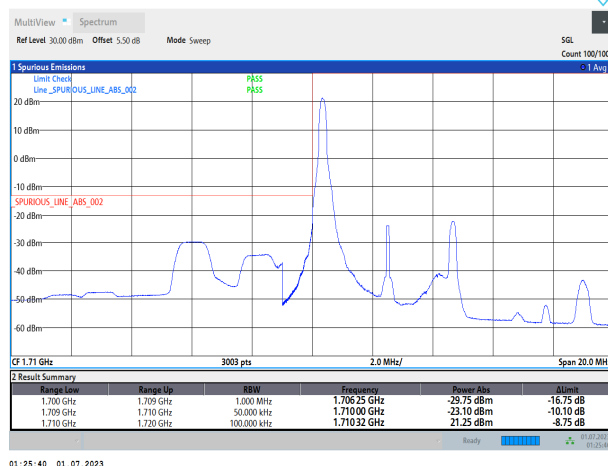


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Band4-5MHz-QPSK-19975-1RB#0



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



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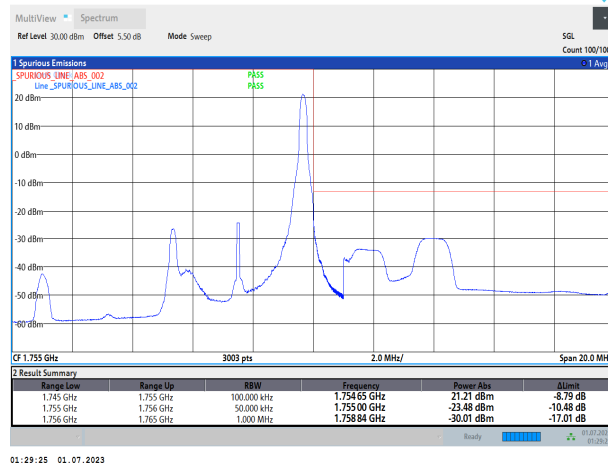


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Band4-5MHz-QPSK-20375-1RB#24



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



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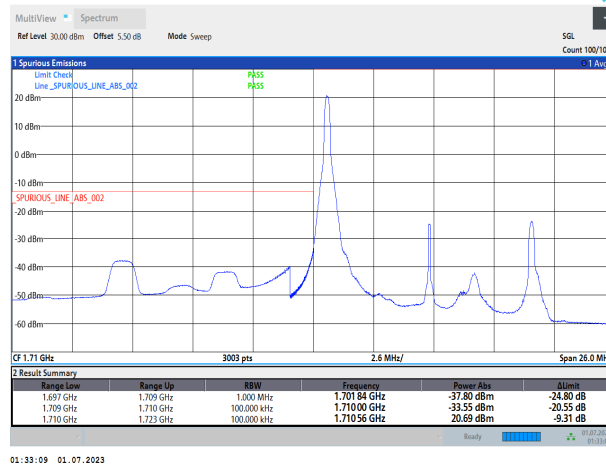


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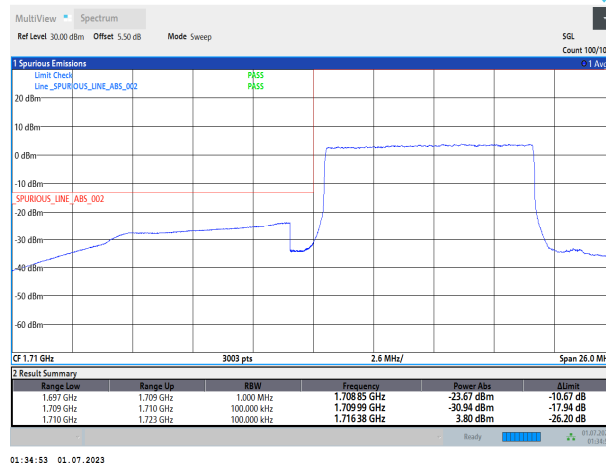
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Band4-10MHz-QPSK-20000-1RB#0



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



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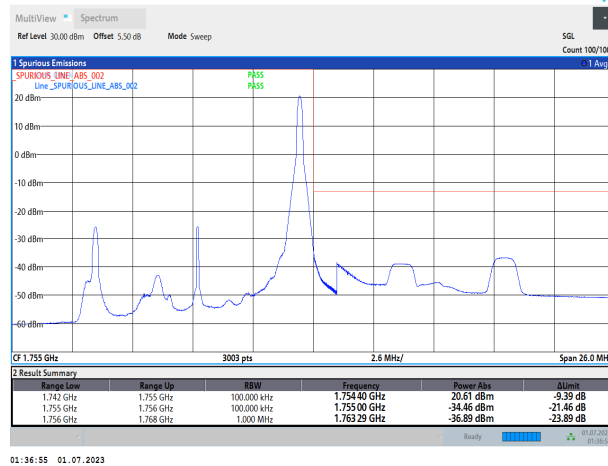


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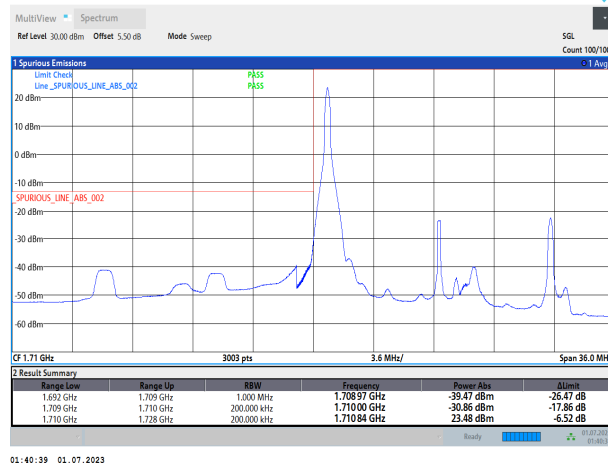


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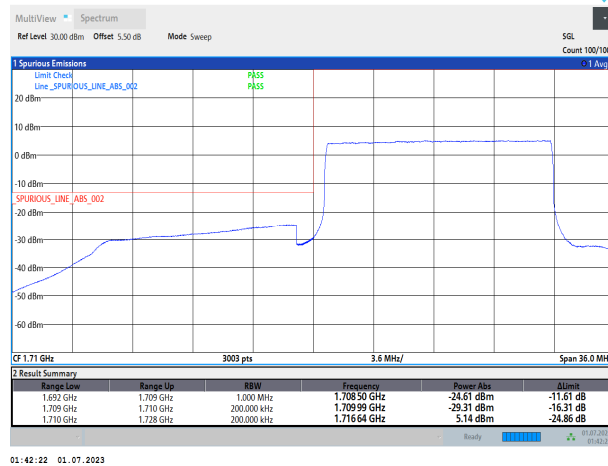
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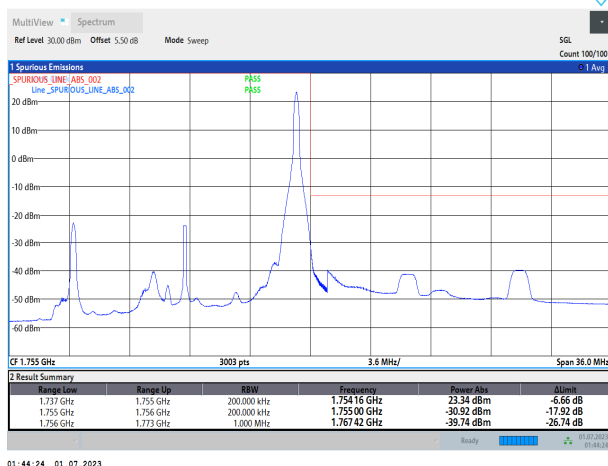


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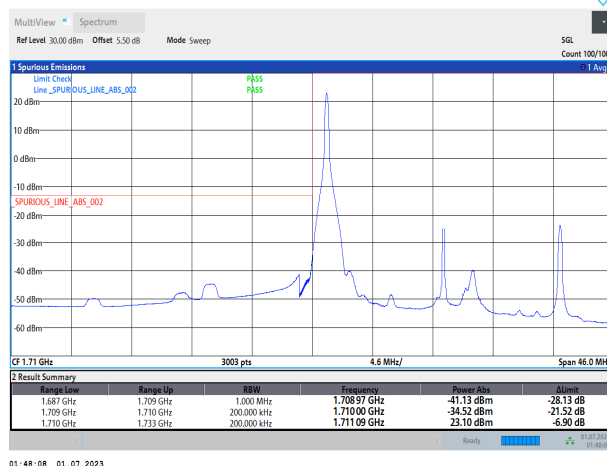
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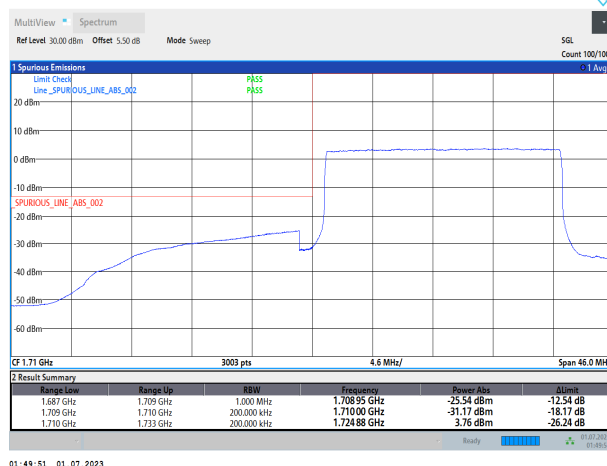


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Band4-20MHz-QPSK-20050-1RB#0



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



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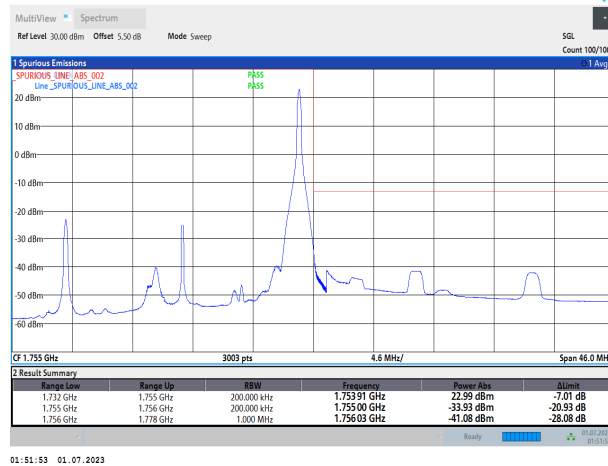


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Band4-20MHz-QPSK-20300-1RB#99



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



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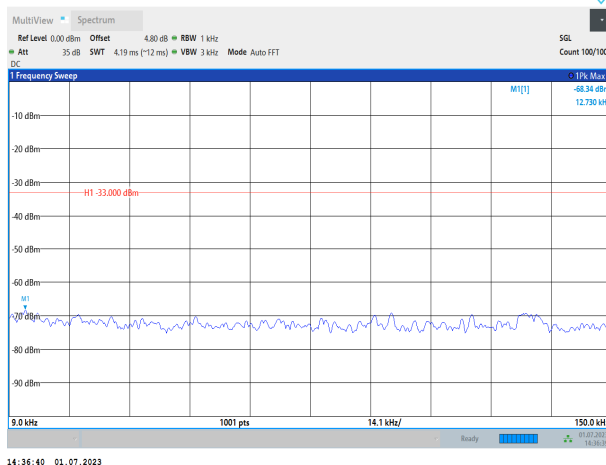
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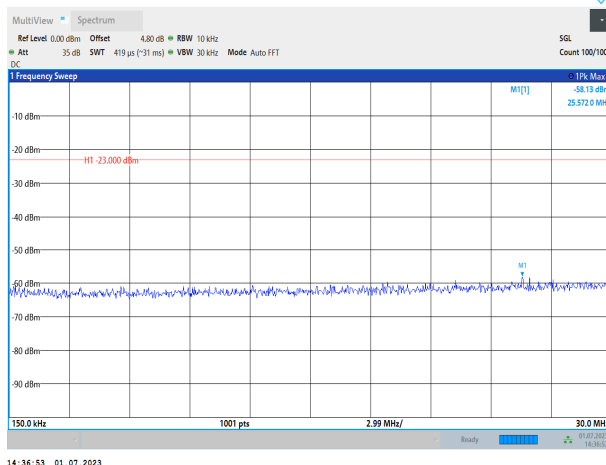
Conducted Spurious Emission

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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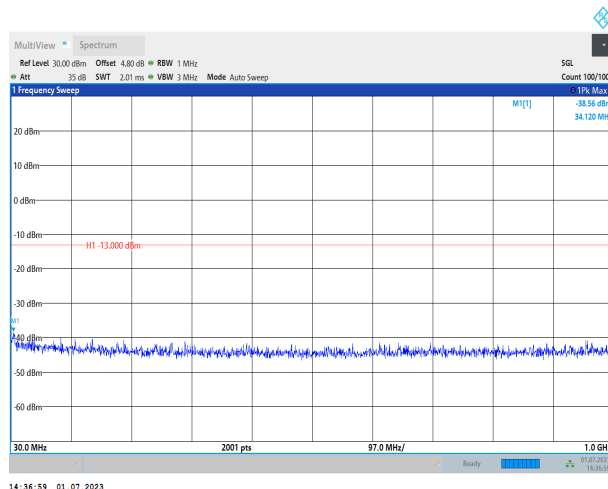


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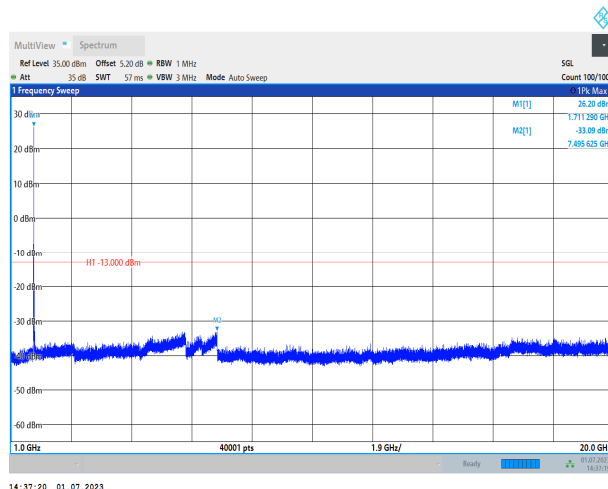
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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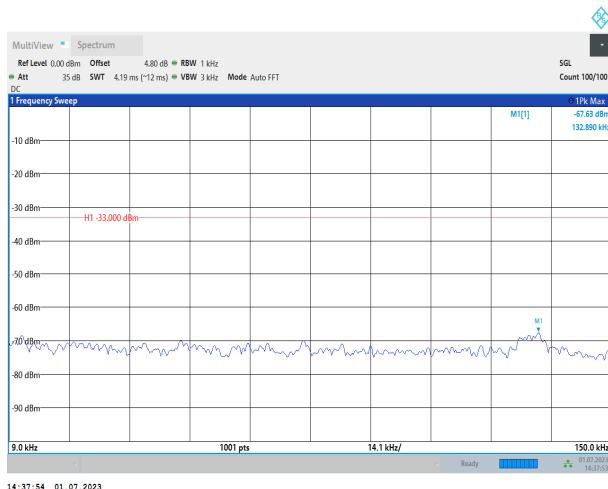


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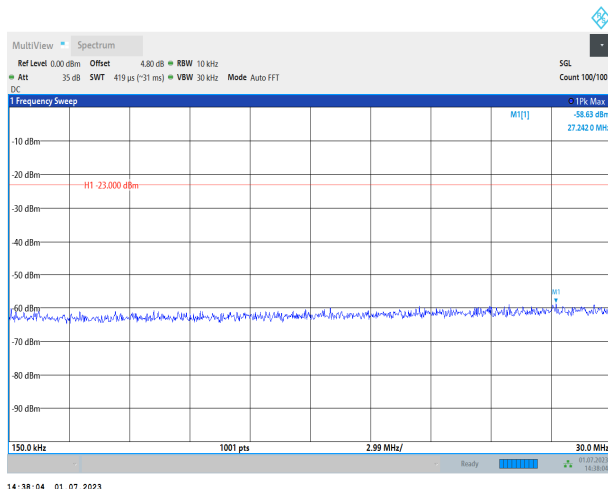
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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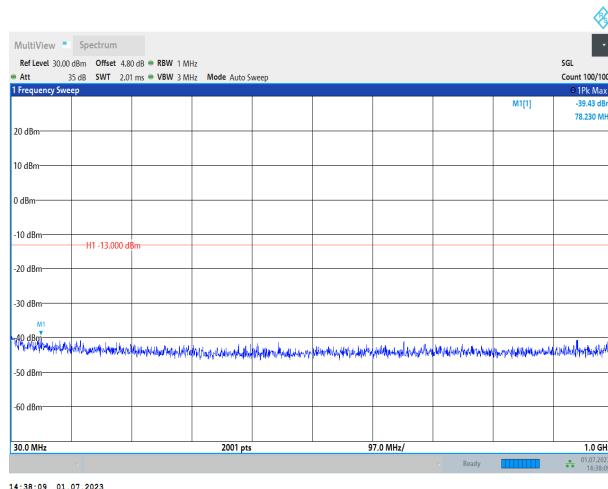
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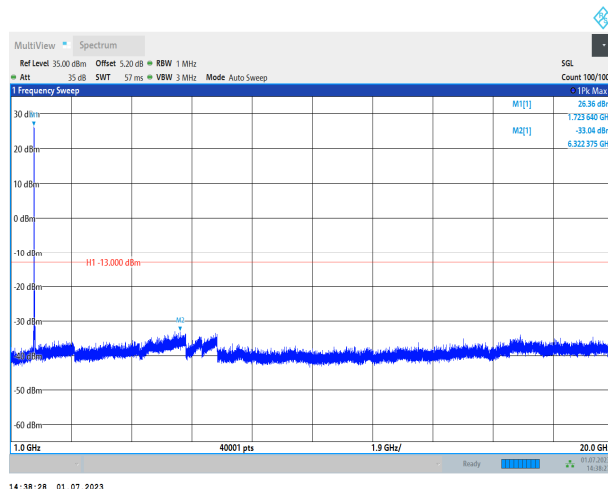


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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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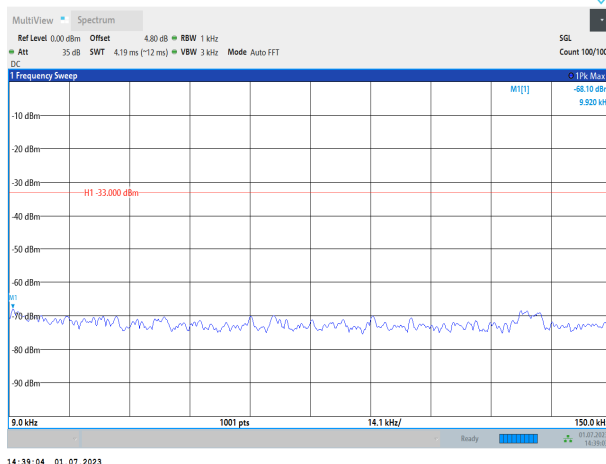


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Rev.: 01

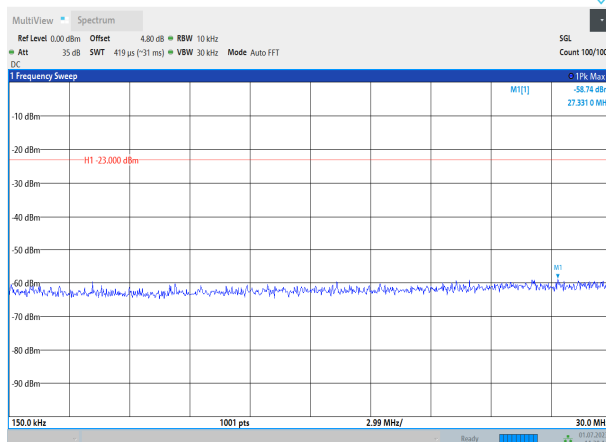
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



14:39:04 01.07.2023

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



14:39:15 01.07.2023



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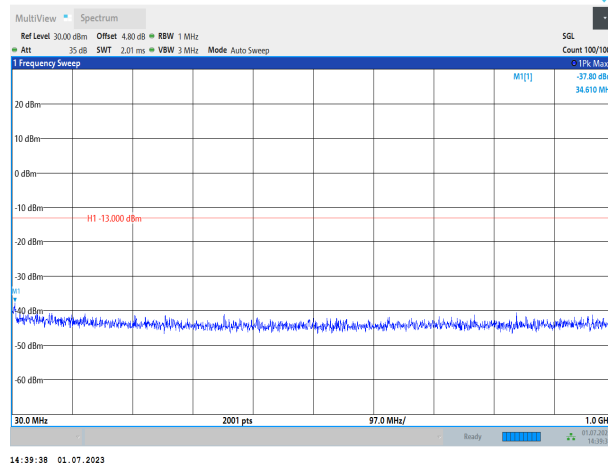


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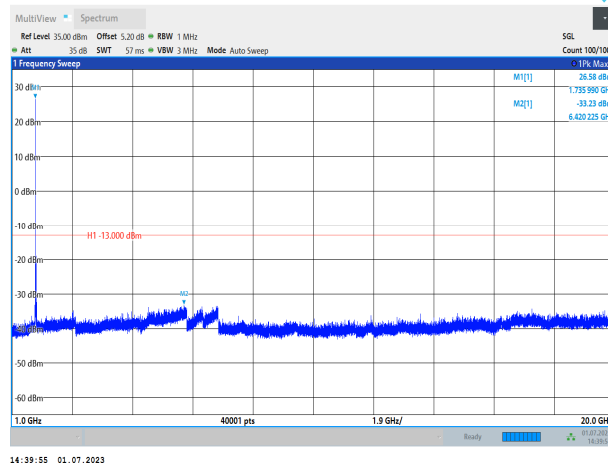
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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	3422.25	65.54	-46.28	28.55	-47.44	-13.00	34.44	258	154	Horizontal
2	5000.25	45.82	-45.64	31.40	-63.68	-13.00	50.68	147	75	Horizontal
3	6788.25	41.30	-44.13	34.82	-63.27	-13.00	50.27	185	0	Horizontal
4	8049.75	39.38	-41.86	36.78	-60.96	-13.00	47.96	196	4	Horizontal
5	10337.25	35.93	-39.06	38.37	-60.02	-13.00	47.02	159	278	Horizontal
6	12870	34.61	-37.03	39.06	-58.62	-13.00	45.62	126	75	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	3422.25	57.38	-46.28	28.55	-55.60	-13.00	42.60	122	149	Vertical
2	5000.25	48.78	-45.64	31.40	-60.72	-13.00	47.72	154	24	Vertical
3	6321	42.02	-44.51	33.73	-64.03	-13.00	51.03	178	126	Vertical
4	7825.5	40.17	-42.44	36.73	-60.80	-13.00	47.80	186	3	Vertical
5	10266.75	39.12	-39.23	38.33	-57.03	-13.00	44.03	136	194	Vertical
6	11977.5	37.19	-37.51	38.80	-56.78	-13.00	43.78	256	341	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	61.17	-46.27	28.57	-51.79	-13.00	38.79	244	188	Horizontal
2	5000.25	45.71	-45.64	31.40	-63.79	-13.00	50.79	156	76	Horizontal
3	6811.5	41.68	-44.16	34.86	-62.88	-13.00	49.88	166	131	Horizontal
4	7868.25	40.18	-42.66	36.75	-60.99	-13.00	47.99	192	324	Horizontal
5	8810.25	38.79	-41.25	36.39	-61.32	-13.00	48.32	152	324	Horizontal
6	11588.25	34.09	-36.95	38.76	-59.36	-13.00	46.36	144	256	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	52.62	-46.27	28.57	-60.34	-13.00	47.34	244	308	Vertical
2	5000.25	48.75	-45.64	31.40	-60.75	-13.00	47.75	175	58	Vertical
3	6660	41.61	-44.03	34.59	-63.09	-13.00	50.09	163	308	Vertical
4	8856.75	39.20	-41.24	36.37	-60.93	-13.00	47.93	259	206	Vertical
5	10341.75	38.04	-39.06	38.37	-57.91	-13.00	44.91	156	286	Vertical
6	12065.25	37.87	-37.44	38.82	-56.01	-13.00	43.01	133	286	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	3471.75	63.90	-46.27	28.58	-49.04	-13.00	36.04	247	188	Horizontal
2	5000.25	46.19	-45.64	31.40	-63.31	-13.00	50.31	175	74	Horizontal
3	6697.5	41.58	-43.82	34.66	-62.85	-13.00	49.85	162	97	Horizontal
4	8343	40.10	-41.77	36.63	-60.30	-13.00	47.30	155	1	Horizontal
5	10416.75	37.45	-38.97	38.41	-58.38	-13.00	45.38	182	324	Horizontal
6	12152.25	36.21	-37.42	38.85	-57.62	-13.00	44.62	133	357	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	3472.5	55.49	-46.27	28.58	-57.45	-13.00	44.45	248	104	Vertical
2	5000.25	48.35	-45.64	31.40	-61.15	-13.00	48.15	176	49	Vertical
3	6944.25	42.82	-43.86	35.10	-61.20	-13.00	48.20	169	342	Vertical
4	9367.5	38.05	-39.96	37.00	-60.17	-13.00	47.17	192	263	Vertical
5	10416.75	42.16	-38.97	38.41	-53.67	-13.00	40.67	154	286	Vertical
6	12152.25	39.32	-37.42	38.85	-54.51	-13.00	41.51	170	298	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) - Preamp (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	-9.20	-0.005310	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	6.90	0.003983	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.10	0.000058	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-6.30	-0.003636	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-4.70	-0.002713	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	3.10	0.001789	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-3.70	-0.002136	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-8.50	-0.004906	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-10.60	-0.006118	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	4.10	0.002367	PASS

---End of Attachment---



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