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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT3

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	24.05	22.95	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.07	22.97	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.03	22.93	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.14	22.04	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.9	22.8	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.11	23.01	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.09	22.99	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23	21.9	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	24.15	23.05	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.12	23.02	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.16	23.06	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.2	22.1	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.91	21.81	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.2	22.1	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.92	21.82	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.08	20.98	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.12	22.02	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.91	21.81	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.16	22.06	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.06	20.96	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.93	21.83	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.91	21.81	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.96	21.86	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.24	21.14	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.16	21.06	30.00	PASS



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Band4	1.4MHz	64QAM	19957	1RB#2	22.22	21.12	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.19	21.09	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	21	19.9	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.18	21.08	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.19	21.09	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	22.24	21.14	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.03	19.93	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.98	20.88	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.04	20.94	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.97	20.87	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.9	19.8	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#0	19.2	18.1	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#2	19.16	18.06	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#5	19.05	17.95	30.00	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	19.02	17.92	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#0	19.11	18.01	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#2	19.2	18.1	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#5	19.15	18.05	30.00	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	19.05	17.95	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#0	18.95	17.85	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#2	19.09	17.99	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#5	19.17	18.07	30.00	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	19.1	18	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.01	22.91	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.05	22.95	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.1	23	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.07	21.97	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.06	22.96	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.06	22.96	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.06	22.96	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.05	21.95	30.00	PASS



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Band4	3MHz	QPSK	20385	1RB#8	24.16	23.06	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.15	23.05	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.9	21.8	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.13	22.03	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.2	22.1	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.17	22.07	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.08	20.98	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.91	21.81	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.93	21.83	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.9	21.8	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.99	20.89	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.21	22.11	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.98	21.88	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.94	21.84	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.2	21.1	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	22.2	21.1	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.99	20.89	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.93	20.83	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.1	20	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	22.18	21.08	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.99	20.89	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.17	21.07	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.09	19.99	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.95	20.85	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.06	20.96	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.9	20.8	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.91	19.81	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#0	19.13	18.03	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#8	19.17	18.07	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#14	19.17	18.07	30.00	PASS



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Band4	3MHz	256QAM	19965	15RB#0	19.11	18.01	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#0	19.15	18.05	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#8	19.22	18.12	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#14	19.14	18.04	30.00	PASS
Band4	3MHz	256QAM	20175	15RB#0	19.03	17.93	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#0	19.2	18.1	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#8	18.97	17.87	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#14	19.01	17.91	30.00	PASS
Band4	3MHz	256QAM	20385	15RB#0	19.1	18	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	24.03	22.93	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.16	23.06	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	24.14	23.04	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.2	22.1	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.94	22.84	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.13	23.03	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	24.17	23.07	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.08	21.98	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	24	22.9	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.94	22.84	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	24.1	23	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.18	22.08	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.97	21.87	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.02	21.92	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.22	22.12	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.16	21.06	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.2	22.1	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.95	21.85	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.94	21.84	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.12	21.02	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.93	21.83	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.91	21.81	30.00	PASS



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Band4	5MHz	16QAM	20375	25RB#0	22.23	21.13	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.01	20.91	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.93	20.83	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.96	20.86	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.07	19.97	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.96	20.86	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.96	20.86	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.98	20.88	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	21.12	20.02	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	22.02	20.92	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.02	20.92	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	22.15	21.05	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.9	19.8	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#0	19.21	18.11	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#12	18.94	17.84	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#24	19.16	18.06	30.00	PASS
Band4	5MHz	256QAM	19975	25RB#0	19.15	18.05	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#0	19.17	18.07	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#12	19.19	18.09	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#24	19.14	18.04	30.00	PASS
Band4	5MHz	256QAM	20175	25RB#0	19.1	18	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#0	18.95	17.85	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#12	19.16	18.06	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#24	19.16	18.06	30.00	PASS
Band4	5MHz	256QAM	20375	25RB#0	19.2	18.1	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	24	22.9	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.12	23.02	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.12	23.02	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.14	22.04	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	24.21	23.11	30.00	PASS



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Band4	10MHz	QPSK	20175	1RB#49	24.09	22.99	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.07	21.97	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	24.13	23.03	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.1	23	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	24.22	23.12	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.21	22.11	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.95	21.85	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.93	21.83	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.95	21.85	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.23	21.13	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.16	22.06	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.21	22.11	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.92	21.82	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.06	20.96	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.15	22.05	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.96	21.86	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	23	21.9	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.13	21.03	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.91	20.81	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.98	20.88	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.19	21.09	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.17	20.07	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.91	20.81	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.21	21.11	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.91	20.81	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.08	19.98	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	22.13	21.03	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.94	20.84	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.06	20.96	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.14	20.04	30.00	PASS



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Band4	10MHz	256QAM	20000	1RB#0	19.22	18.12	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#24	19.19	18.09	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#49	19.19	18.09	30.00	PASS
Band4	10MHz	256QAM	20000	50RB#0	19.12	18.02	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#0	19.13	18.03	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#24	18.91	17.81	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#49	19.16	18.06	30.00	PASS
Band4	10MHz	256QAM	20175	50RB#0	19.08	17.98	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#0	19.06	17.96	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#24	18.93	17.83	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#49	18.94	17.84	30.00	PASS
Band4	10MHz	256QAM	20350	50RB#0	19.19	18.09	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.92	22.82	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.96	22.86	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.95	22.85	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.1	22	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	24.02	22.92	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	24	22.9	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.09	22.99	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.03	21.93	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	24.11	23.01	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.1	23	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.17	23.07	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.21	22.11	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.12	22.02	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.15	22.05	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.13	22.03	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.94	20.84	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.94	21.84	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.9	21.8	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.23	22.13	30.00	PASS



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Band4	15MHz	16QAM	20175	75RB#0	21.93	20.83	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.1	22	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.17	22.07	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.97	21.87	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.2	21.1	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	22.2	21.1	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	22.17	21.07	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	22.23	21.13	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.08	19.98	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.9	20.8	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.99	20.89	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.92	20.82	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	21	19.9	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	22.09	20.99	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.02	20.92	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	22.02	20.92	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.06	19.96	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#0	19.12	18.02	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#38	19.25	18.15	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#74	19.15	18.05	30.00	PASS
Band4	15MHz	256QAM	20025	75RB#0	18.92	17.82	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#0	19.17	18.07	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#38	19.05	17.95	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#74	19.19	18.09	30.00	PASS
Band4	15MHz	256QAM	20175	75RB#0	19.03	17.93	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#0	19.08	17.98	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#38	18.96	17.86	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#74	18.97	17.87	30.00	PASS
Band4	15MHz	256QAM	20325	75RB#0	19.08	17.98	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	24.05	22.95	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.01	22.91	30.00	PASS



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Band4	20MHz	QPSK	20050	1RB#99	24.06	22.96	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.02	21.92	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.94	22.84	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.07	22.97	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	24.18	23.08	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.1	22	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.98	22.88	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.03	22.93	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.92	22.82	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.14	22.04	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.07	21.97	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.25	22.15	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	23	21.9	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.07	20.97	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.14	22.04	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.19	22.09	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.99	21.89	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	22	20.9	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.1	22	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.17	22.07	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.99	21.89	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.09	20.99	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	22.14	21.04	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	22.01	20.91	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.02	20.92	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.08	19.98	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	22.09	20.99	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.97	20.87	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.92	20.82	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	21.04	19.94	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	22.13	21.03	30.00	PASS



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Band4	20MHz	64QAM	20300	1RB#49	21.99	20.89	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.12	21.02	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.03	19.93	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#0	19.17	18.07	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#49	19.13	18.03	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#99	19.19	18.09	30.00	PASS
Band4	20MHz	256QAM	20050	100RB#0	18.98	17.88	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#0	19.07	17.97	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#49	19.2	18.1	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#99	19.11	18.01	30.00	PASS
Band4	20MHz	256QAM	20175	100RB#0	18.94	17.84	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#0	18.99	17.89	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#49	19.06	17.96	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#99	18.97	17.87	30.00	PASS
Band4	20MHz	256QAM	20300	100RB#0	19.03	17.93	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	5.42	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.36	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.34	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.18	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.92	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.94	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.36	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.38	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.36	13	PASS
Band4	20MHz	256QAM	20050	100RB#0	6.58	13	PASS
Band4	20MHz	256QAM	20175	100RB#0	6.56	13	PASS
Band4	20MHz	256QAM	20300	100RB#0	6.56	13	PASS



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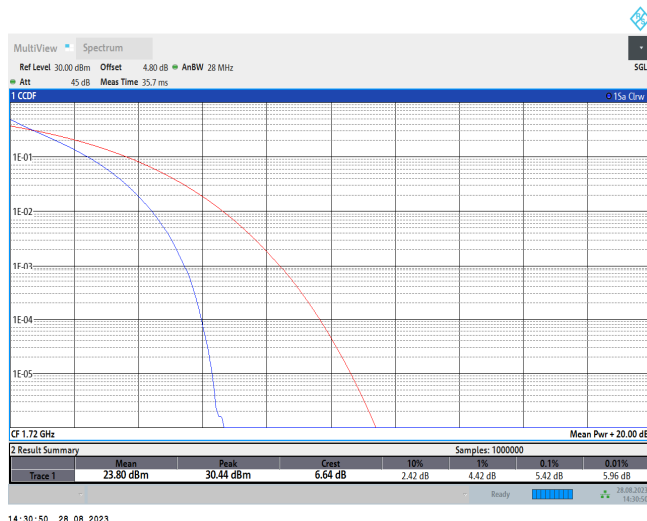
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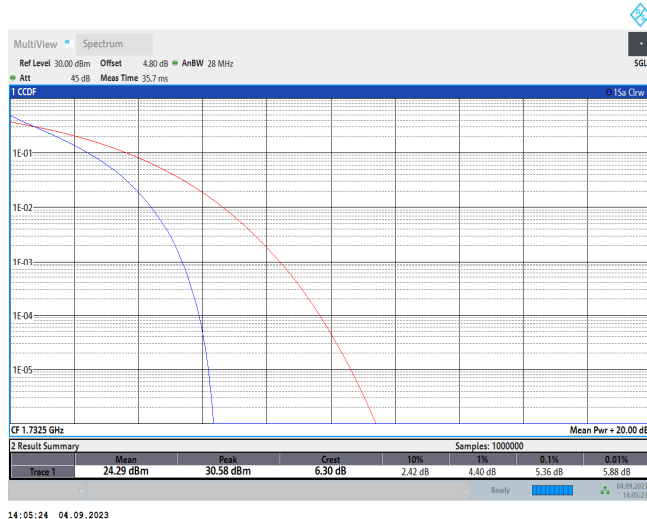
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Test Graphs

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



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



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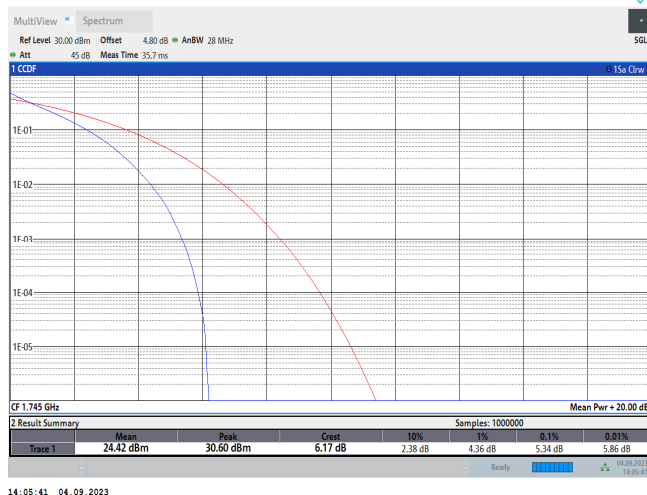
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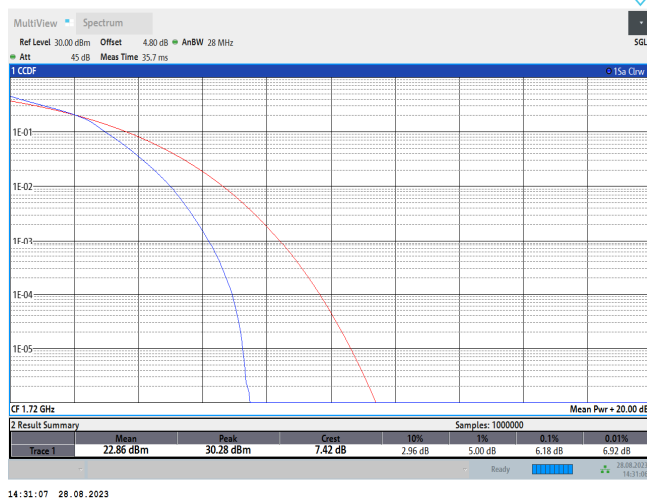
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Band4-20MHz-QPSK-20300-100RB#0



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



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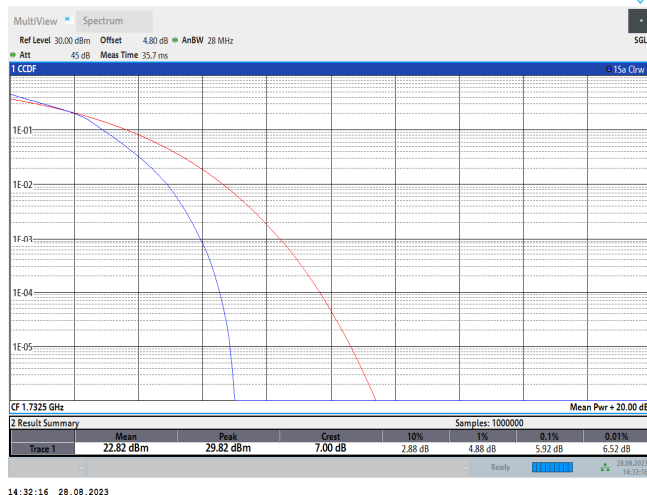
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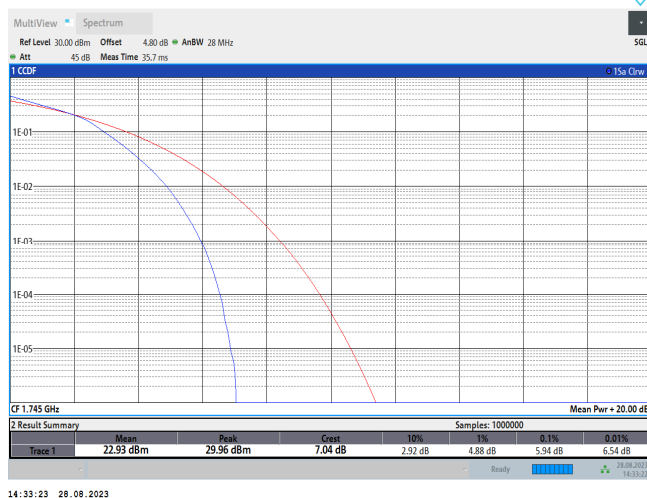
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Band4-20MHz-16QAM-20175-100RB#0



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



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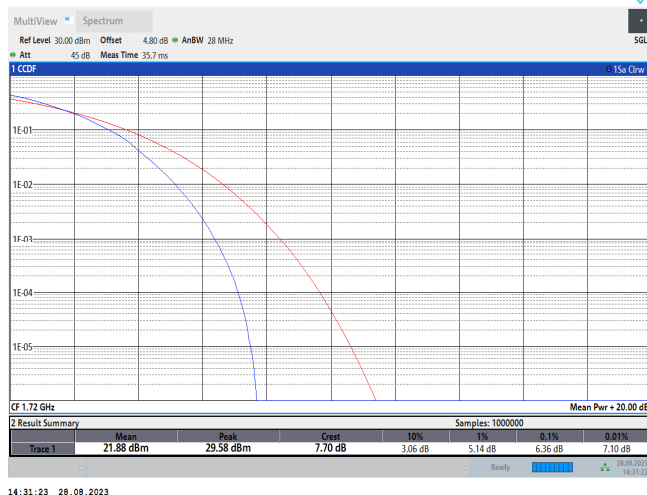
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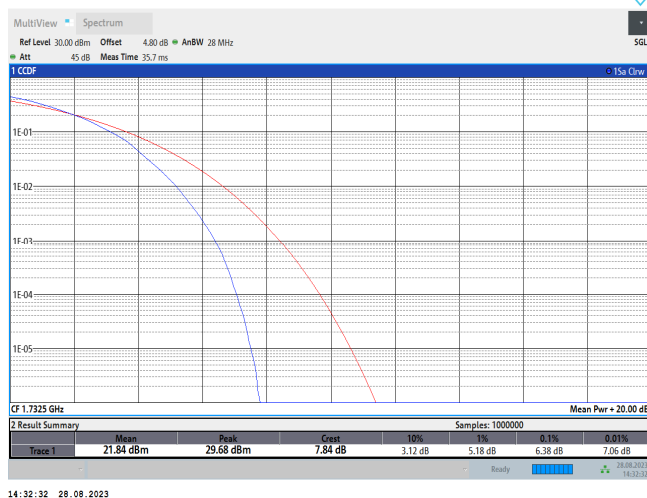
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Band4-20MHz-64QAM-20050-100RB#0



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



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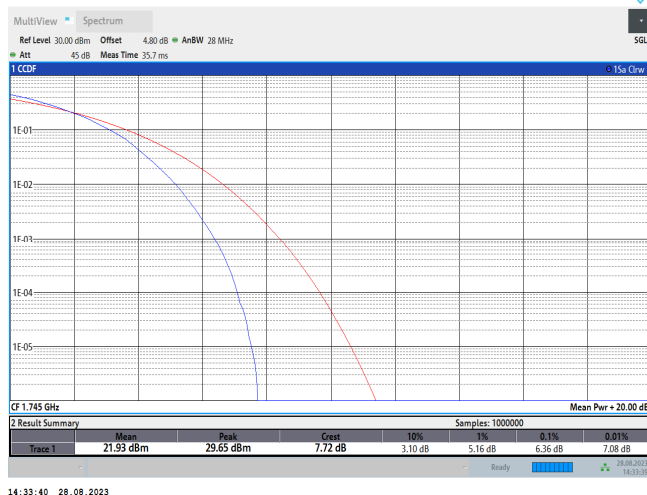
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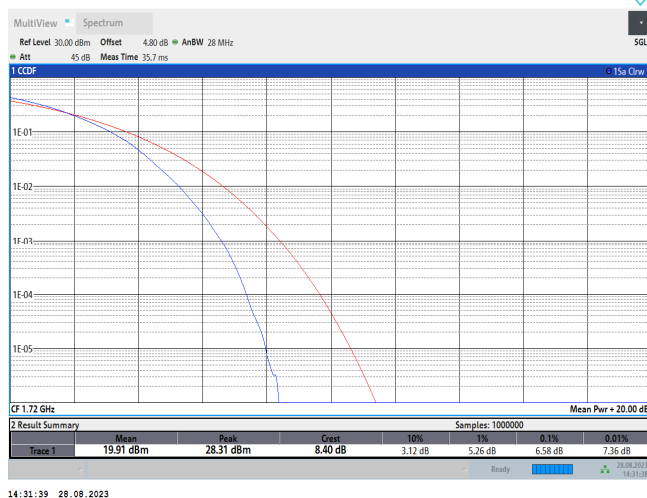
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Band4-20MHz-64QAM-20300-100RB#0



Band4-20MHz-256QAM-20050-100RB#0



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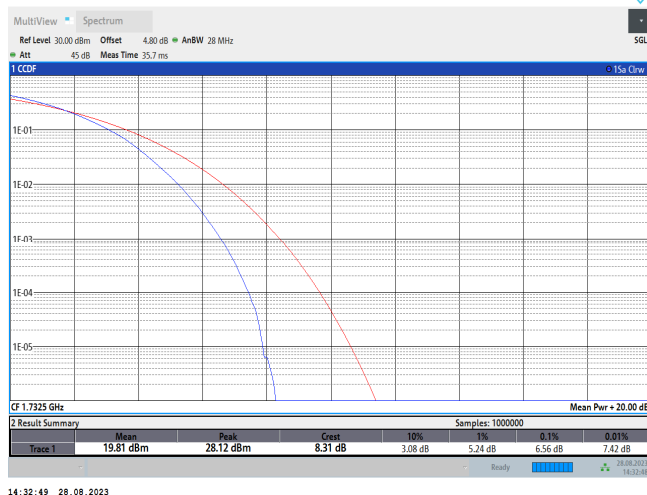
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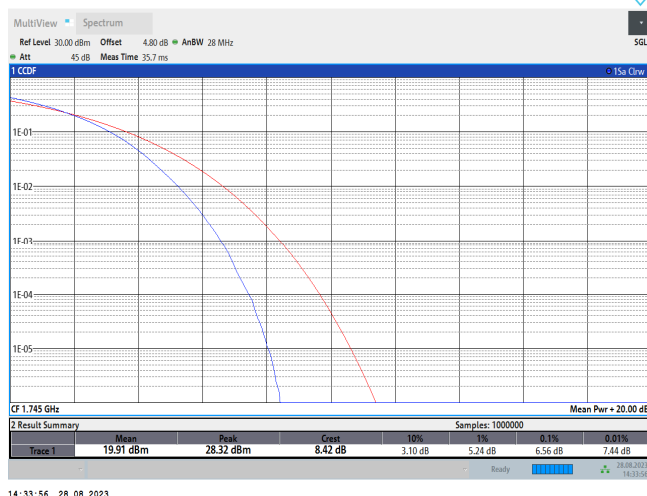
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Band4-20MHz-256QAM-20175-100RB#0



Band4-20MHz-256QAM-20300-100RB#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	20175	6RB#0	1.096	1.29	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.095	1.31	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	1.087	1.28	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.698	2.95	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.691	2.93	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.687	2.92	PASS
Band4	3MHz	256QAM	20175	15RB#0	2.692	2.93	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.468	4.85	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.467	4.88	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.47	4.87	PASS
Band4	5MHz	256QAM	20175	25RB#0	4.466	4.83	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.935	9.62	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.926	9.70	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.935	9.70	PASS
Band4	10MHz	256QAM	20175	50RB#0	8.924	9.62	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.444	14.70	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.453	14.85	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.45	14.73	PASS
Band4	15MHz	256QAM	20175	75RB#0	13.431	14.73	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.857	19.28	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.866	19.28	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.88	19.24	PASS
Band4	20MHz	256QAM	20175	100RB#0	17.87	19.32	PASS



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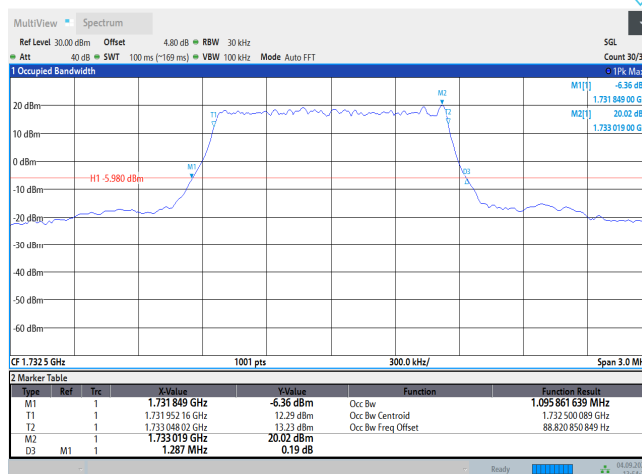
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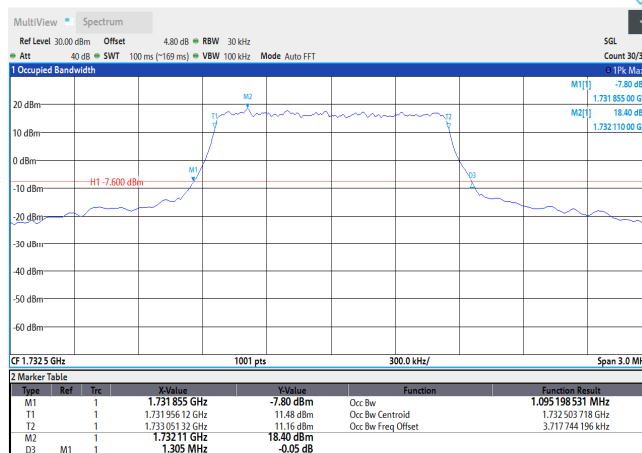
Test Graphs

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



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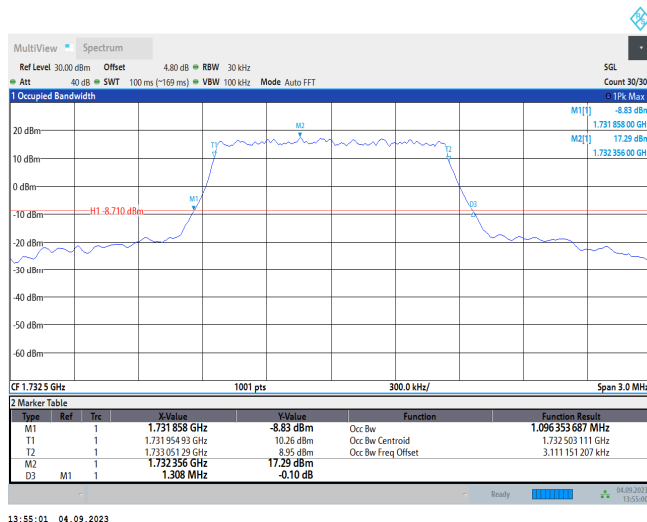
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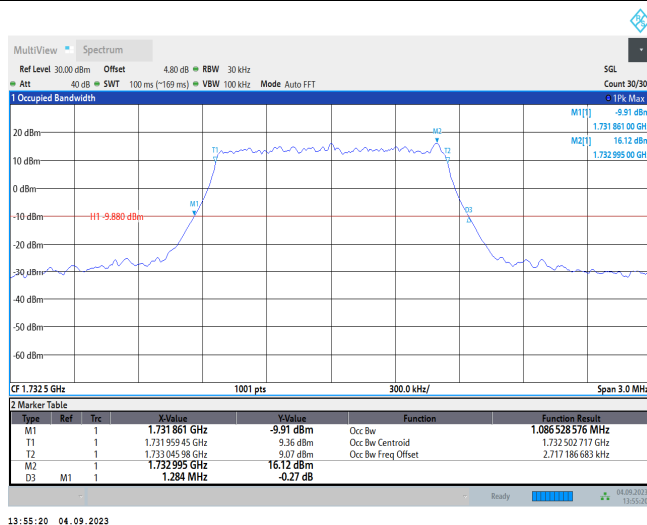
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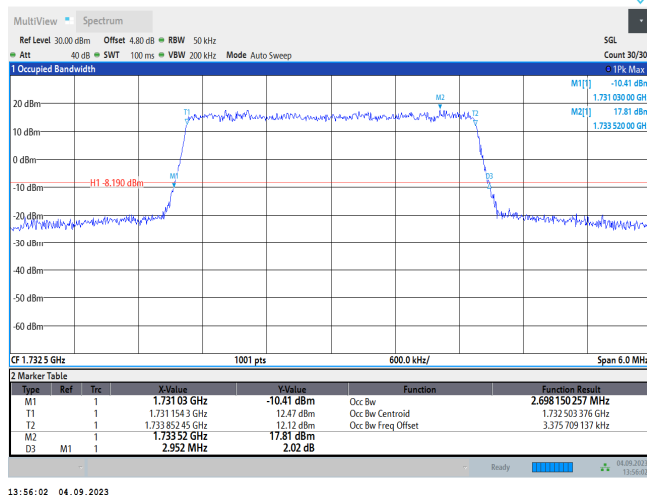
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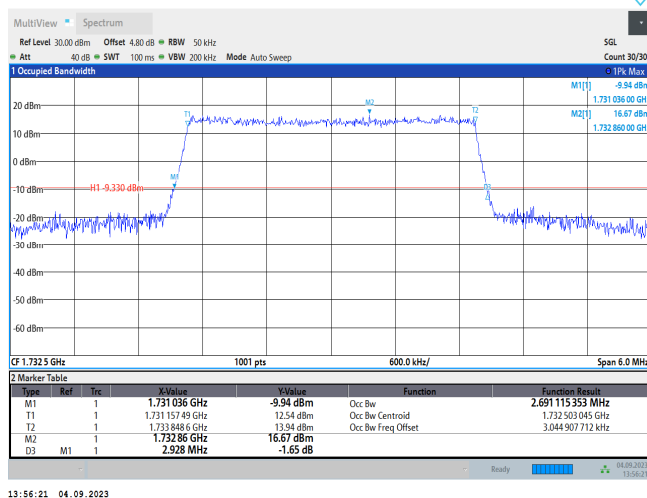
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Band4-3MHz-16QAM-20175-15RB#0



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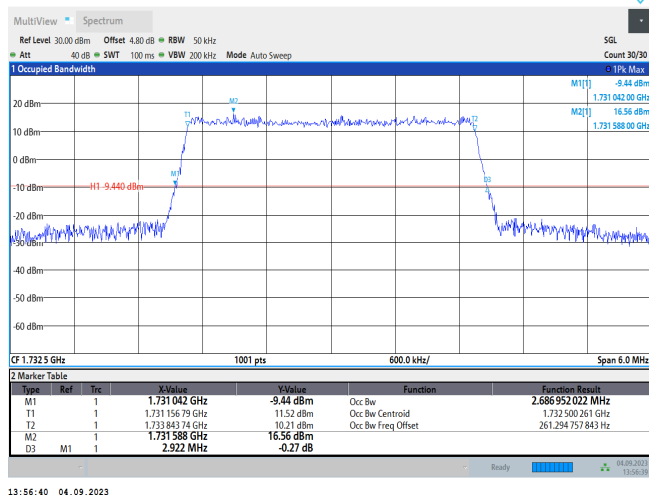
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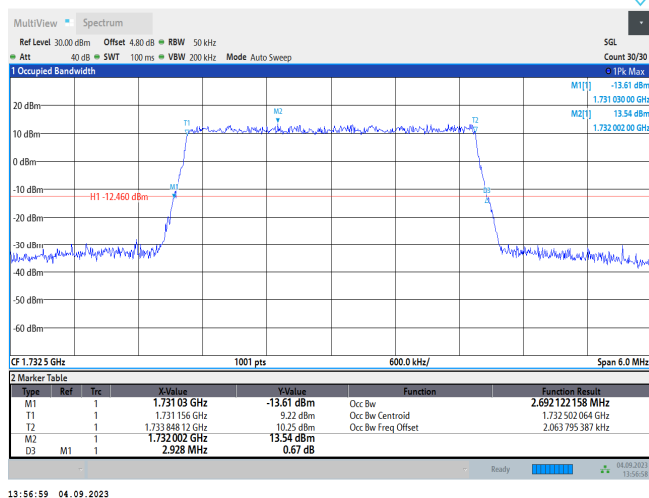
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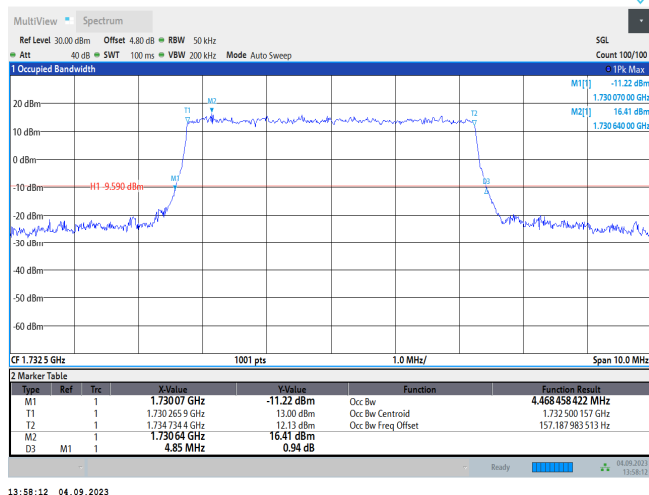


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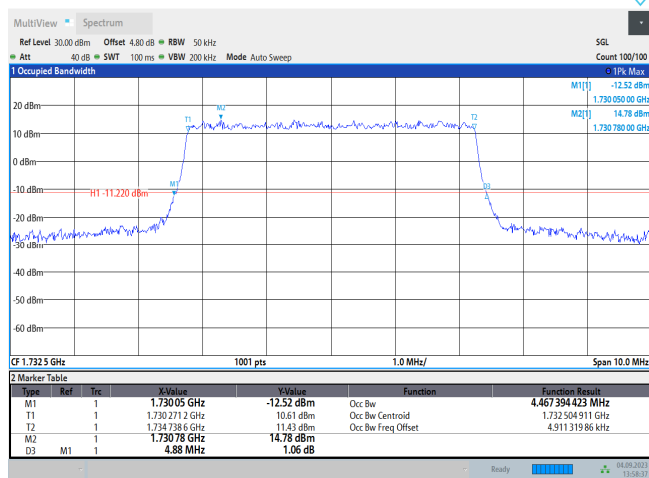
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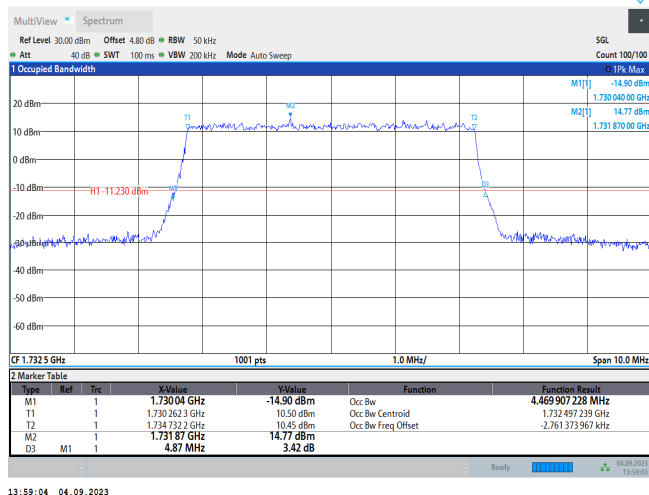
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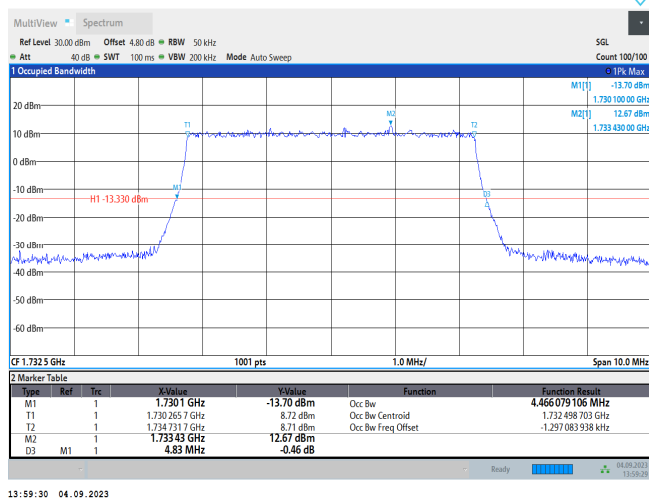
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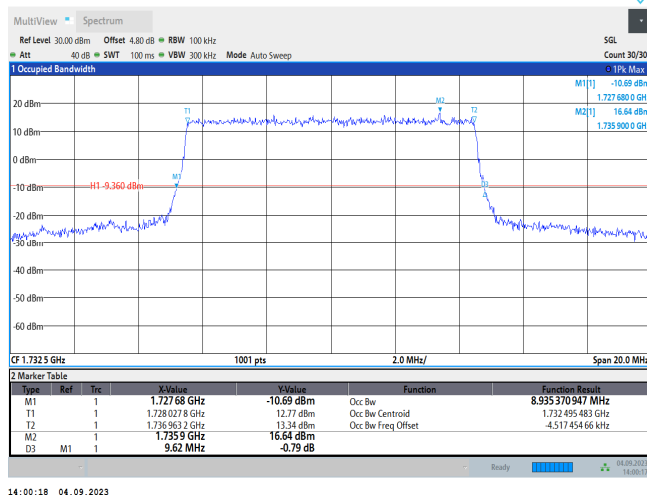


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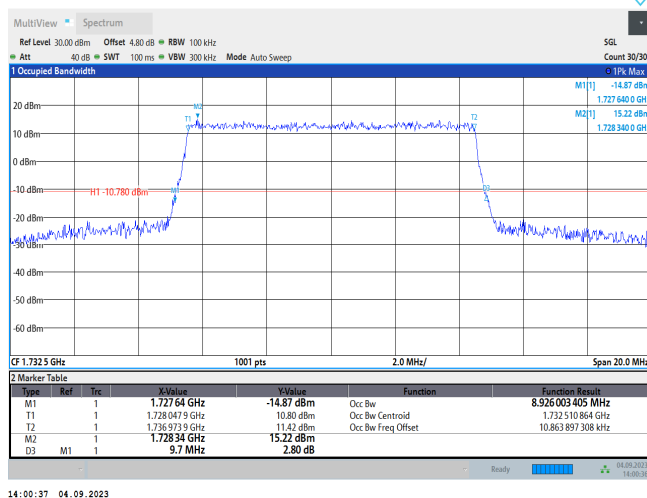
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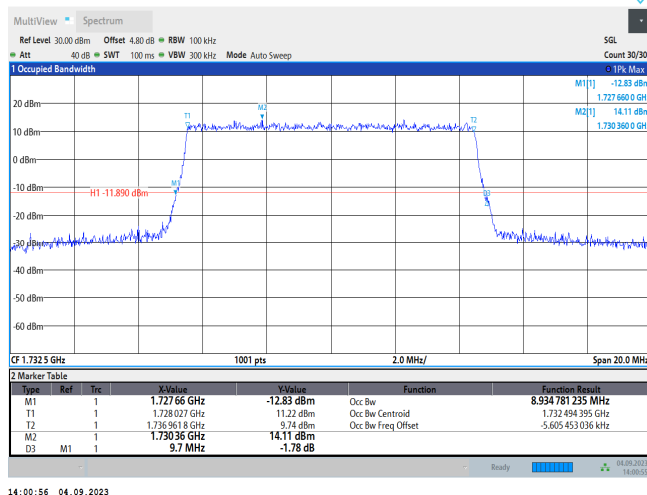


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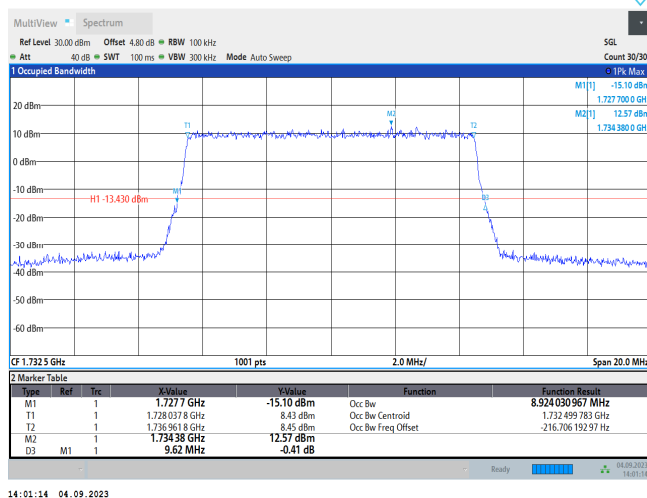
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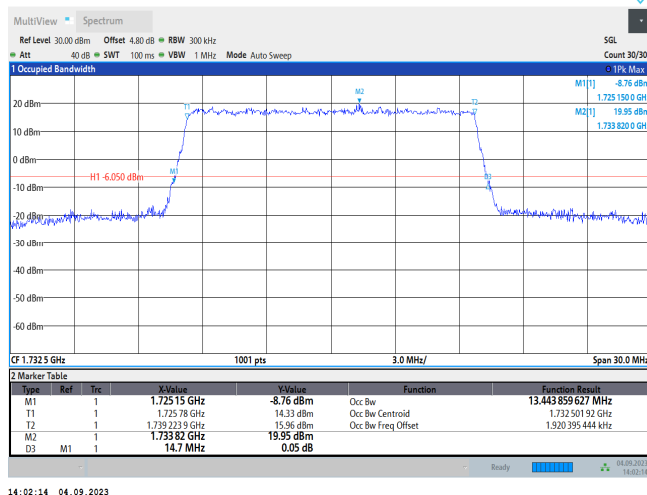


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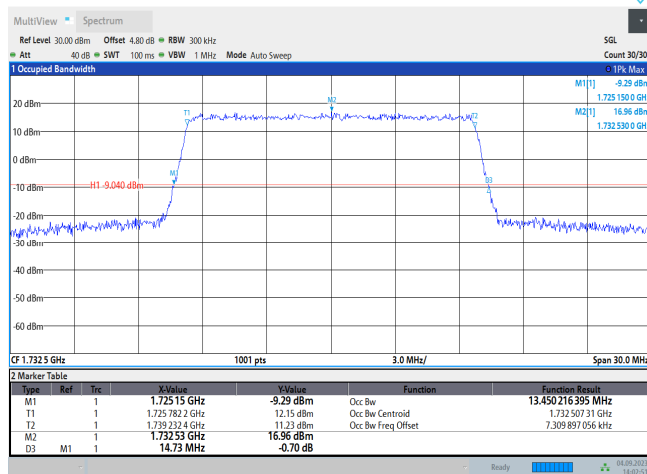


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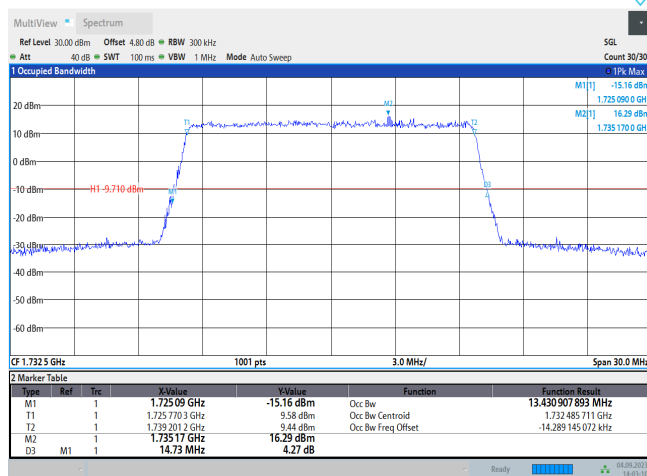
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Band4-15MHz-256QAM-20175-75RB#0



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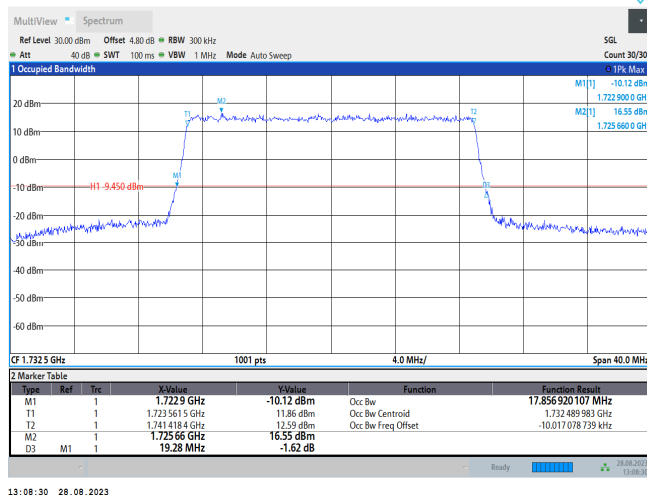
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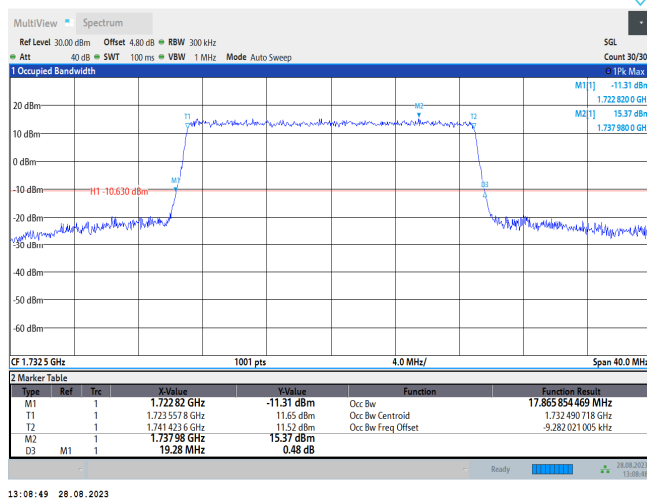
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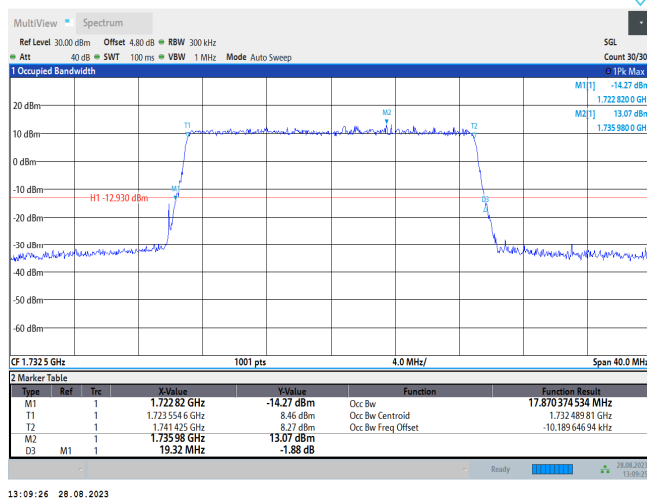
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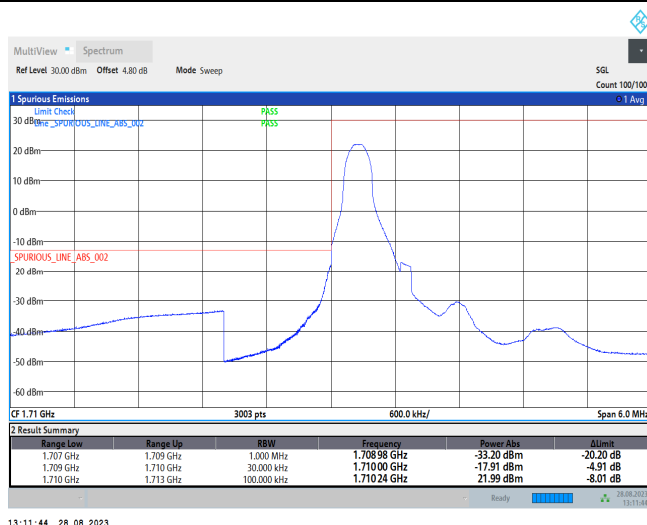
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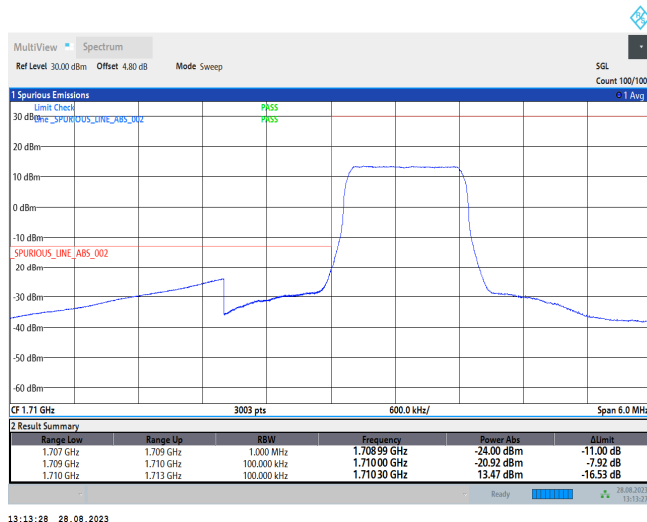
Band Edge

Test Graphs

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



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



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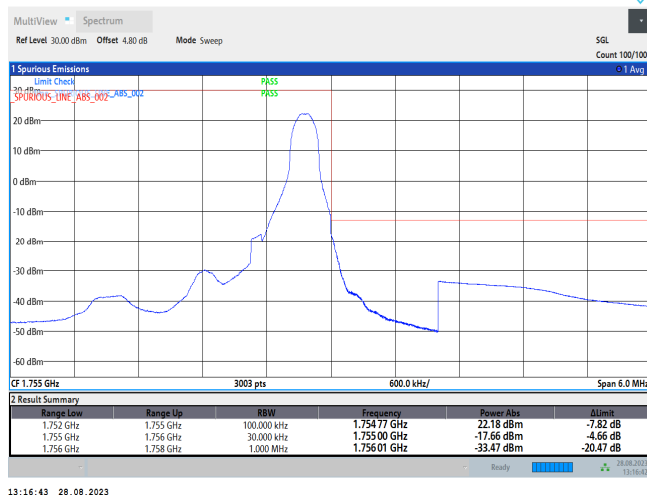
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Band4-1.4MHz-QPSK-20393-1RB#5



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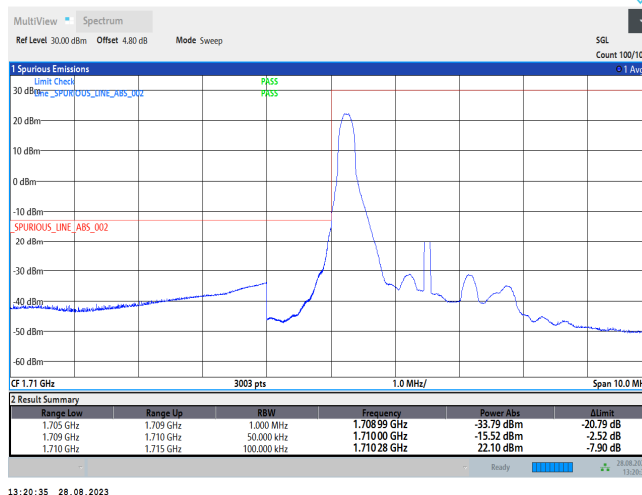
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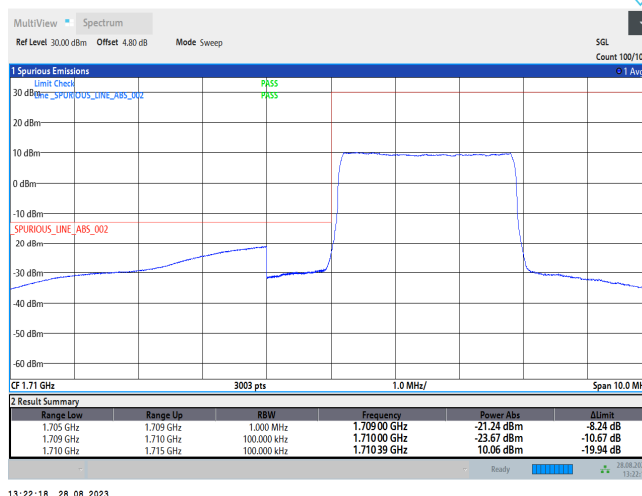
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Band4-3MHz-QPSK-19965-1RB#0



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



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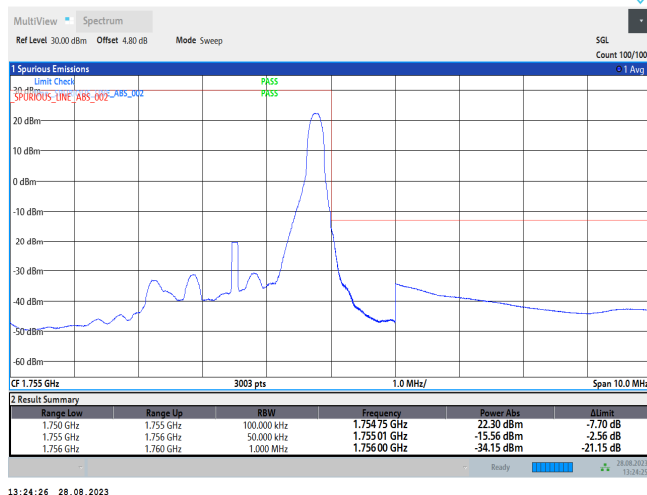
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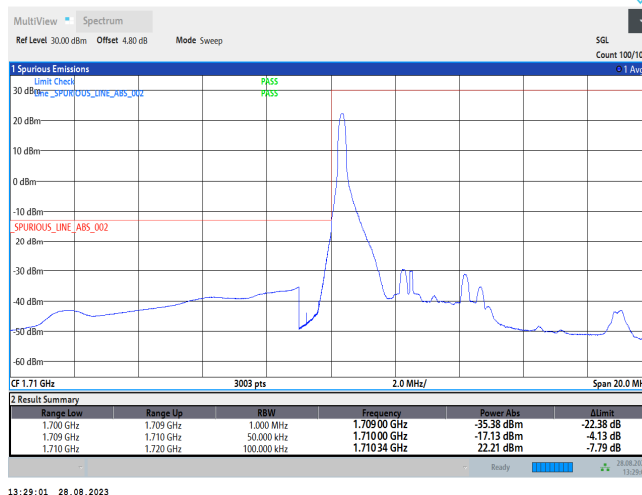
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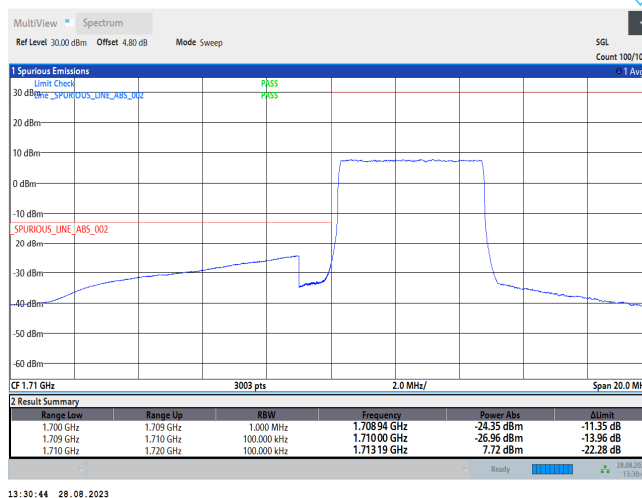
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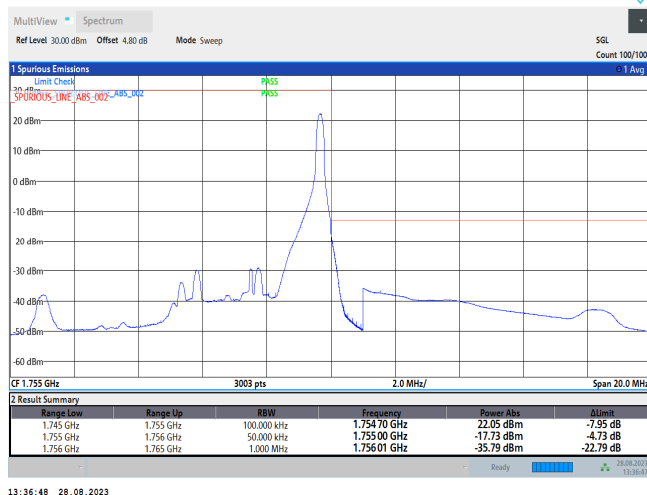
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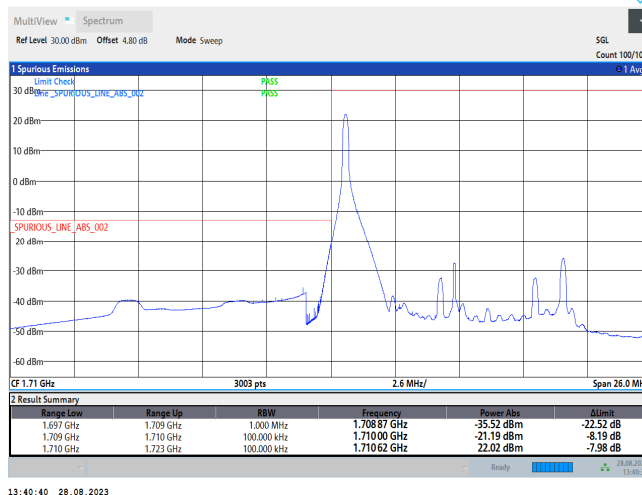
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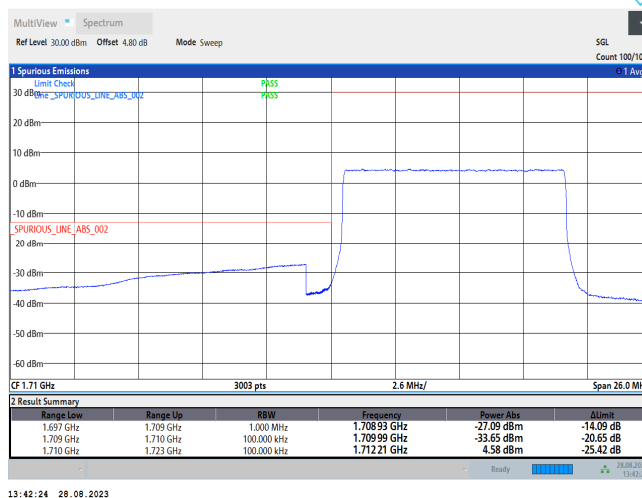
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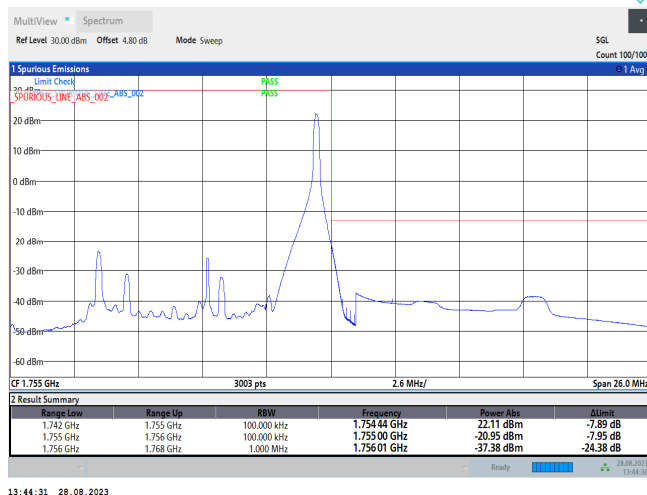
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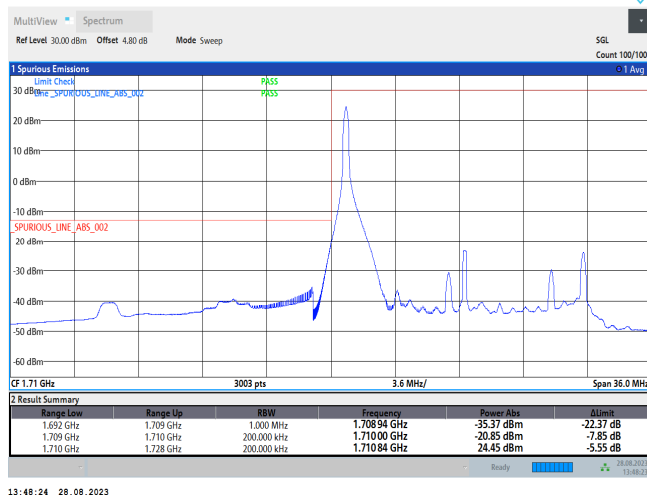
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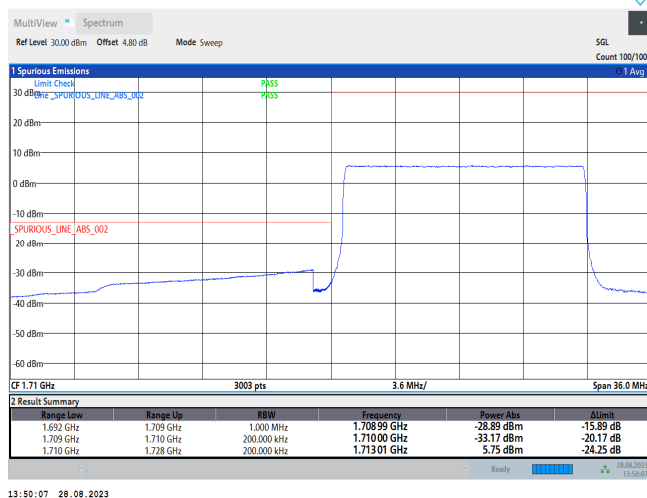
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Band4-15MHz-QPSK-20025-1RB#0



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



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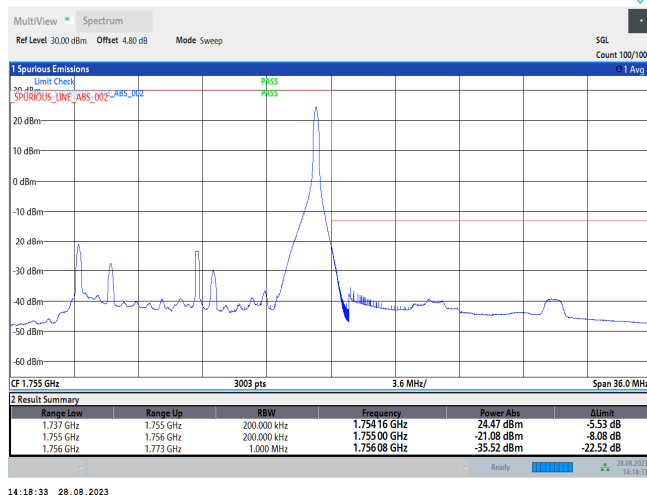
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Band4-15MHz-QPSK-20325-1RB#74



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



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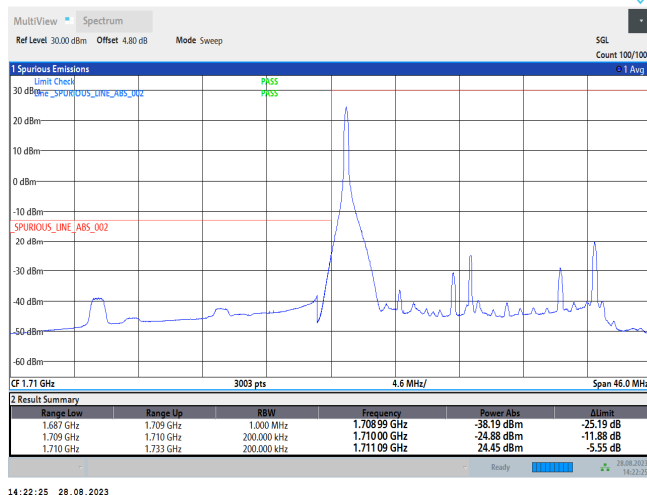
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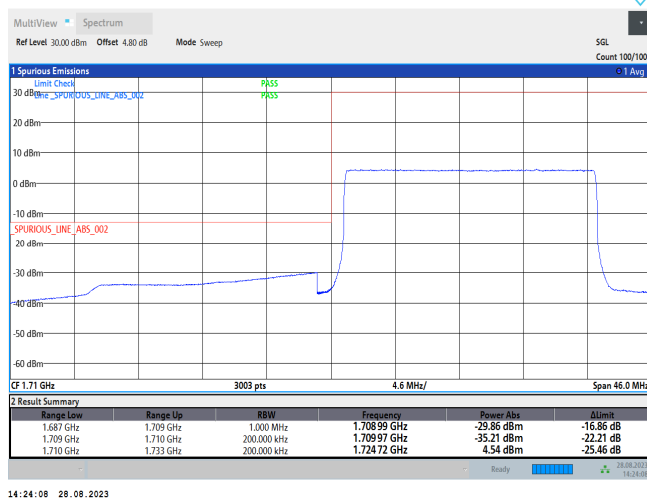
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Band4-20MHz-QPSK-20050-1RB#0



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



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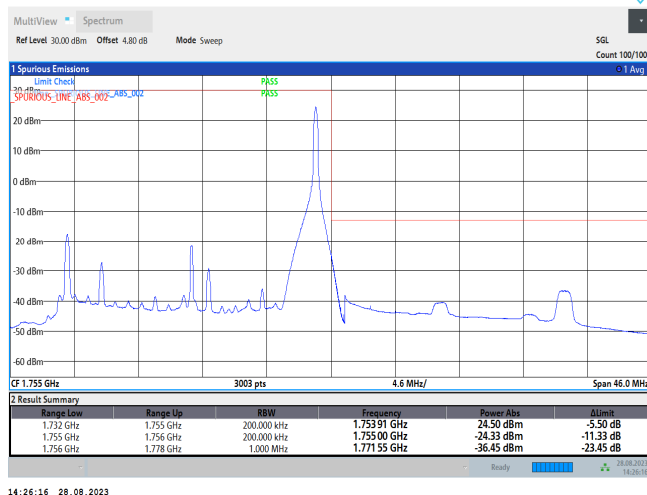
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Band4-20MHz-QPSK-20300-1RB#99



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



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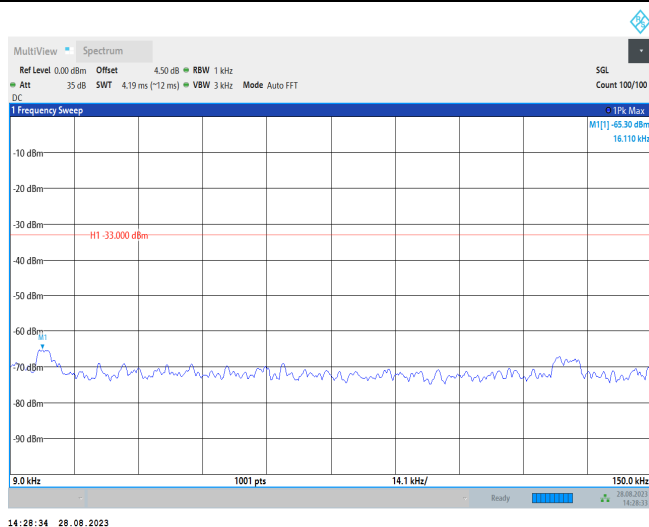
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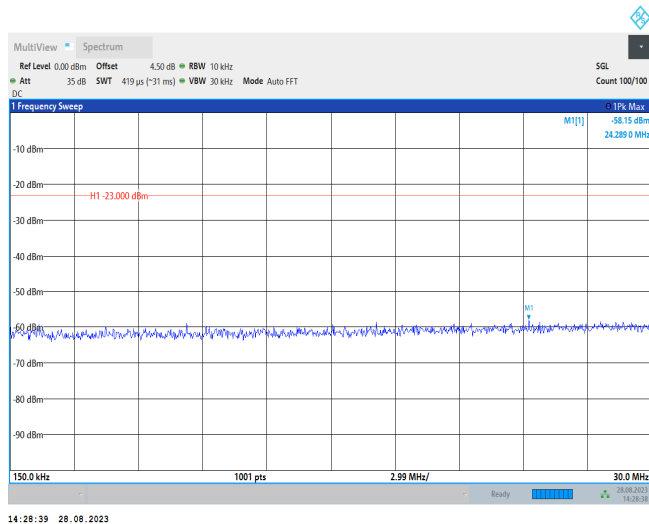
Conducted Spurious Emission

Test Graphs

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



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

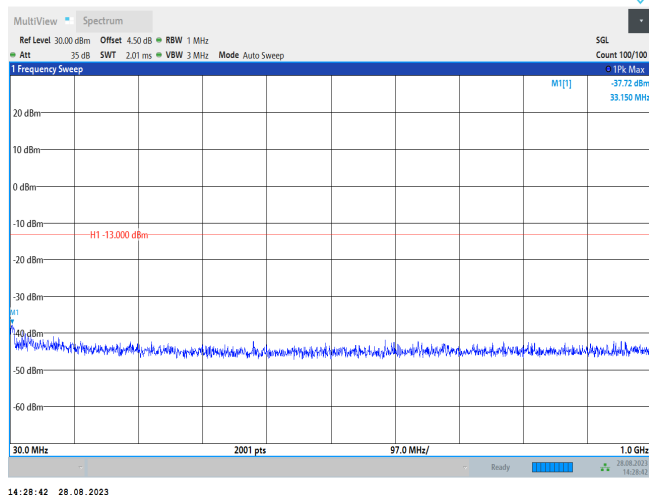


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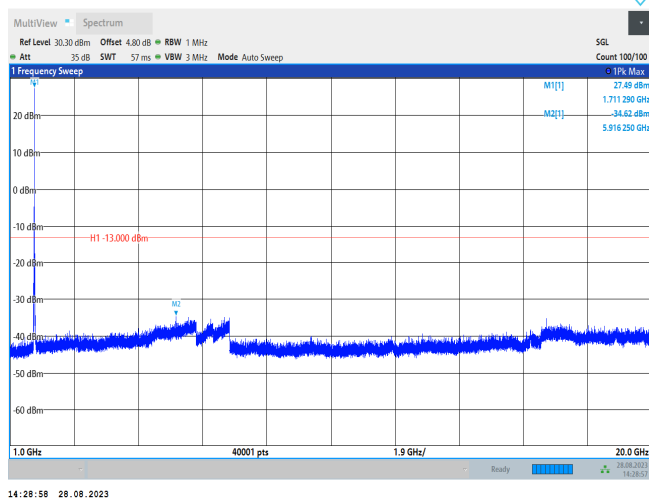
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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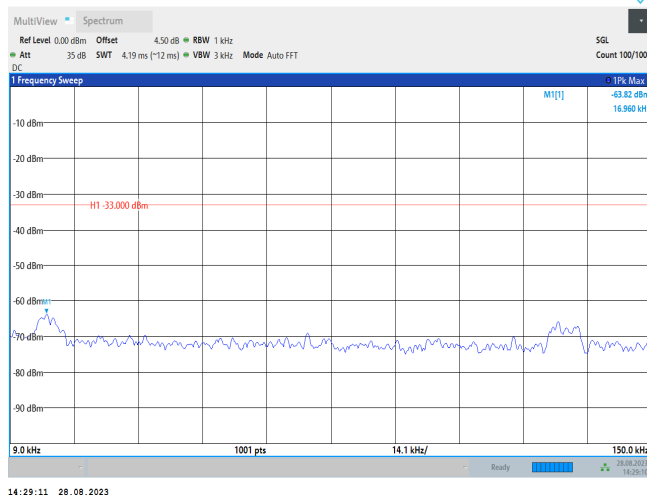
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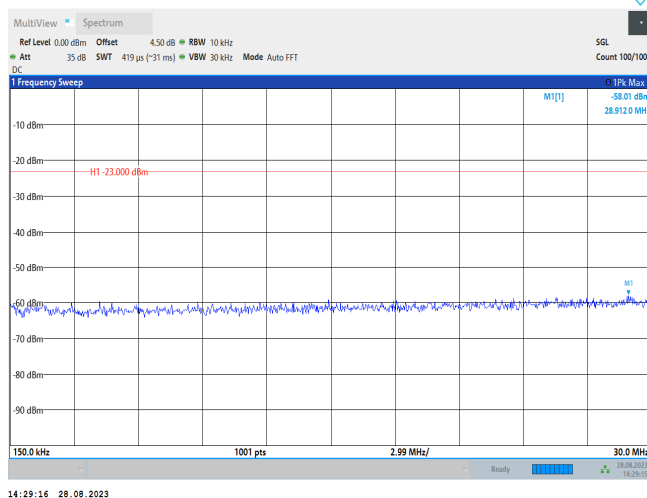
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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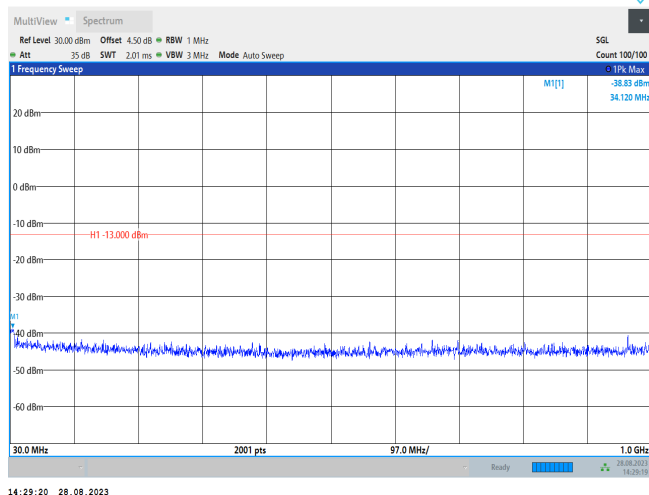
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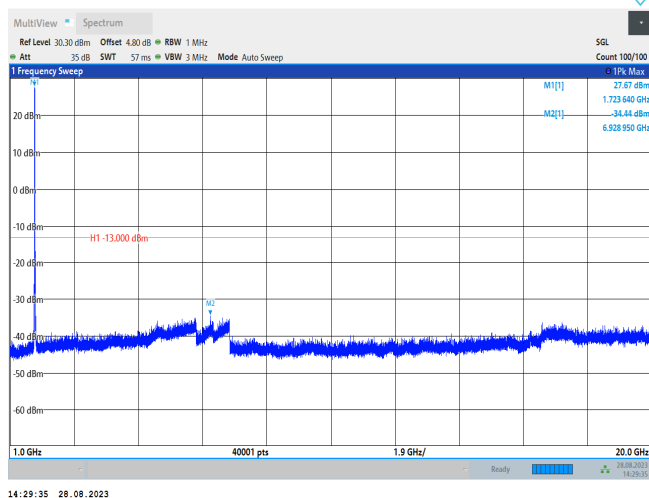
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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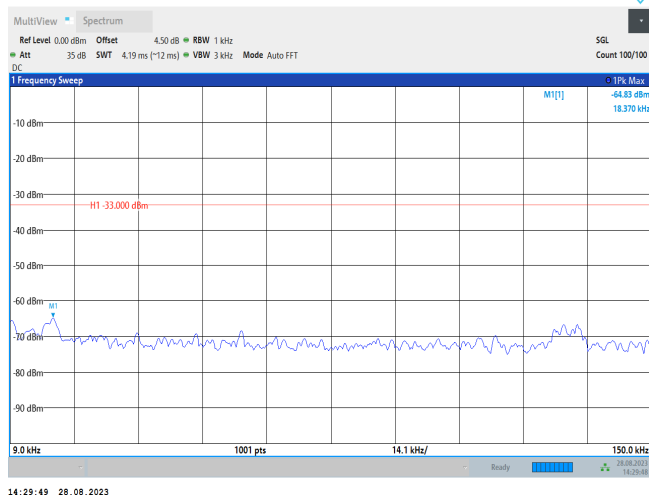


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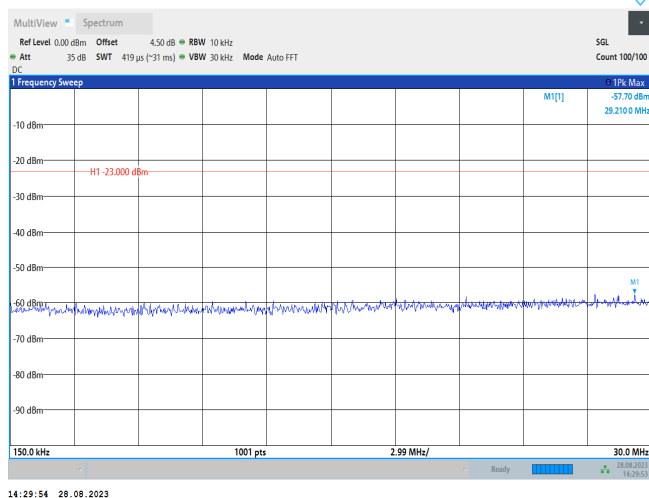
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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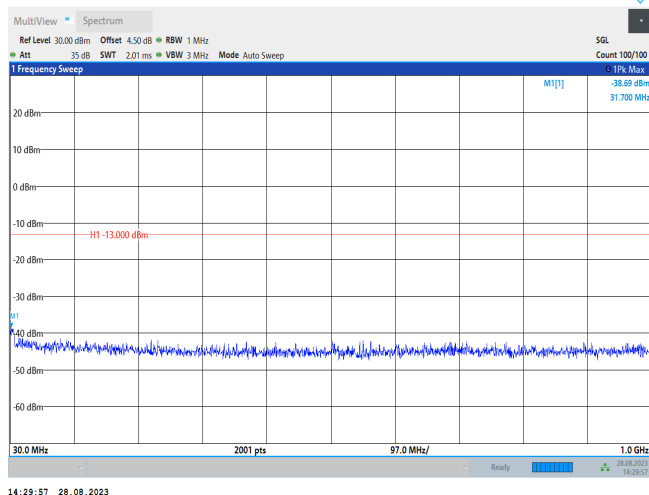
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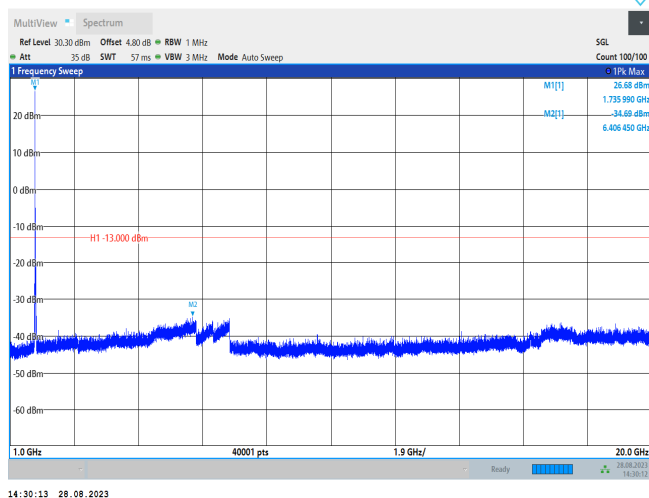
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band4_20MHz_TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	41.96	-46.28	28.55	-71.02	-13.00	58.02	Horizontal
2	5133.2700	40.22	-45.34	31.72	-68.66	-13.00	55.66	Horizontal
3	6844.3600	39.84	-44.14	34.92	-64.64	-13.00	51.64	Horizontal
4	8555.4500	37.21	-41.46	36.52	-62.99	-13.00	49.99	Horizontal
5	10266.5400	33.64	-39.23	38.33	-62.51	-13.00	49.51	Horizontal
6	11977.6300	30.76	-37.51	38.80	-63.22	-13.00	50.22	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	41.07	-46.28	28.55	-71.91	-13.00	58.91	Vertical
2	5133.2700	39.67	-45.34	31.72	-69.21	-13.00	56.21	Vertical
3	6844.3600	39.73	-44.14	34.92	-64.75	-13.00	51.75	Vertical
4	8555.4500	36.73	-41.46	36.52	-63.47	-13.00	50.47	Vertical
5	10266.5400	34.35	-39.23	38.33	-61.80	-13.00	48.80	Vertical
6	11977.6300	31.22	-37.51	38.80	-62.76	-13.00	49.76	Vertical



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Test Band = LTE Band4_20MHz_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	43.67	-46.27	28.57	-69.29	-13.00	56.29	Horizontal
2	5170.7700	40.26	-45.31	31.81	-68.49	-13.00	55.49	Horizontal
3	6894.3600	42.87	-44.10	35.01	-61.48	-13.00	48.48	Horizontal
4	8617.9500	36.99	-41.40	36.49	-63.17	-13.00	50.17	Horizontal
5	10341.5400	33.57	-39.06	38.37	-62.38	-13.00	49.38	Horizontal
6	12065.1300	31.53	-37.44	38.82	-62.35	-13.00	49.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	41.82	-46.27	28.57	-71.14	-13.00	58.14	Vertical
2	5170.7700	39.95	-45.31	31.81	-68.80	-13.00	55.80	Vertical
3	6894.3600	42.15	-44.10	35.01	-62.20	-13.00	49.20	Vertical
4	8617.9500	36.76	-41.40	36.49	-63.40	-13.00	50.40	Vertical
5	10341.5400	33.66	-39.06	38.37	-62.29	-13.00	49.29	Vertical
6	12065.1300	31.70	-37.44	38.82	-62.18	-13.00	49.18	Vertical



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Test Band = LTE Band4_20MHz_TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	42.01	-46.27	28.58	-70.93	-13.00	57.93	Horizontal
2	5208.2700	40.76	-45.26	31.90	-67.86	-13.00	54.86	Horizontal
3	6944.3600	39.17	-43.85	35.10	-64.84	-13.00	51.84	Horizontal
4	8680.4500	37.68	-41.62	36.46	-62.74	-13.00	49.74	Horizontal
5	10416.5400	32.90	-38.97	38.41	-62.93	-13.00	49.93	Horizontal
6	12152.6300	32.16	-37.42	38.85	-61.67	-13.00	48.67	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	42.55	-46.27	28.58	-70.39	-13.00	57.39	Vertical
2	5208.2700	39.95	-45.26	31.90	-68.67	-13.00	55.67	Vertical
3	6944.3600	39.65	-43.85	35.10	-64.36	-13.00	51.36	Vertical
4	8680.4500	37.74	-41.62	36.46	-62.68	-13.00	49.68	Vertical
5	10416.5400	33.81	-38.97	38.41	-62.02	-13.00	49.02	Vertical
6	12152.6300	31.85	-37.42	38.85	-61.98	-13.00	48.98	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:

$$AF = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	11.40	0.006580	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	9.80	0.005657	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	9.50	0.005483	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-0.90	-0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	8.00	0.004618	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	10.10	0.005830	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	7.50	0.004329	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	6.00	0.003463	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	11.80	0.006811	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.10	0.000058	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	9.00	0.005195	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	3.80	0.002193	PASS

---End of Attachment---



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