Appendix B.4

LTE Band 4

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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.33	21.13	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.45	21.25	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.45	21.25	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.36	20.16	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.39	21.19	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.42	21.22	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.43	21.23	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.34	20.14	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.35	21.15	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.37	21.17	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.37	21.17	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.28	20.08	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.57	20.37	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.54	20.34	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.58	20.38	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.44	19.24	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.63	20.43	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.59	20.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.62	20.42	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.42	19.22	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.43	20.23	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.55	20.35	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.56	20.36	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.28	19.08	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.44	19.24	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.46	19.26	30.00	PASS

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Band4	1.4MHz	64QAM	19957	1RB#5	21.44	19.24	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.47	18.27	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.47	19.27	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.51	19.31	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.48	19.28	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.47	18.27	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.38	19.18	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.48	19.28	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.43	19.23	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.42	18.22	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.32	21.12	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.48	21.28	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.45	21.25	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.36	20.16	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.43	21.23	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.46	21.26	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.44	21.24	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.32	20.12	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.40	21.20	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.39	21.19	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.36	21.16	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.28	20.08	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.59	20.39	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.55	20.35	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.56	20.36	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.36	19.16	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.54	20.34	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.57	20.37	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.59	20.39	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.32	19.12	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.60	20.40	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.57	20.37	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.44	20.24	30.00	PASS

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Band4	3MHz	16QAM	20385	15RB#0	21.28	19.08	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.44	19.24	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.53	19.33	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.50	19.30	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.51	18.31	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.47	19.27	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.52	19.32	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.56	19.36	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.46	18.26	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.40	19.20	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.42	19.22	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.44	19.24	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.44	18.24	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.44	21.24	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.56	21.36	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.49	21.29	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.36	20.16	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.49	21.29	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.56	21.36	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.48	21.28	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.37	20.17	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.45	21.25	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.51	21.31	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.41	21.21	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.34	20.14	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.55	20.35	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.67	20.47	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.54	20.34	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.35	19.15	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.67	20.47	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.65	20.45	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.69	20.49	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.38	19.18	30.00	PASS

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Band4	5MHz	16QAM	20375	1RB#0	22.70	20.50	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.59	20.39	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.49	20.29	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.34	19.14	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.47	19.27	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.54	19.34	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.47	19.27	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.53	18.33	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.58	19.38	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.59	19.39	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.52	19.32	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.55	18.35	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.48	19.28	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.53	19.33	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.45	19.25	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.48	18.28	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.36	21.16	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.47	21.27	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.47	21.27	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.37	20.17	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.45	21.25	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.47	21.27	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.47	21.27	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.42	20.22	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.40	21.20	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.43	21.23	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.39	21.19	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.36	20.16	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.45	20.25	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.60	20.40	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.68	20.48	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.35	19.15	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.52	20.32	30.00	PASS

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Band4	10MHz	16QAM	20175	1RB#24	22.68	20.48	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.56	20.36	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.37	19.17	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.66	20.46	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.60	20.40	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.50	20.30	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.36	19.16	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.46	19.26	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.50	19.30	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.56	19.36	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.49	18.29	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.47	19.27	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.51	19.31	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.57	19.37	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.52	18.32	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.45	19.25	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.46	19.26	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.47	19.27	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.50	18.30	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.24	21.04	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.43	21.23	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.38	21.18	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.34	20.14	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.29	21.09	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.43	21.23	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.41	21.21	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.37	20.17	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.33	21.13	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.40	21.20	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.33	21.13	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.37	20.17	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.42	20.22	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.59	20.39	30.00	PASS

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Band4	15MHz	16QAM	20025	1RB#74	22.52	20.32	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.33	19.13	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.50	20.30	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.57	20.37	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.61	20.41	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.30	19.10	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.53	20.33	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.60	20.40	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.44	20.24	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.34	19.14	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.29	19.09	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.51	19.31	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.41	19.21	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.52	18.32	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.36	19.16	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.51	19.31	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.45	19.25	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.52	18.32	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.44	19.24	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.56	19.36	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.41	19.21	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.47	18.27	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.17	20.97	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.46	21.26	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.41	21.21	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.31	20.11	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.22	21.02	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.48	21.28	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.43	21.23	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.34	20.14	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.25	21.05	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.46	21.26	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.36	21.16	30.00	PASS

检验检测专用章
Inspection & Testing Services
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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Band4	20MHz	QPSK	20300	100RB#0	22.40	20.20	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.36	20.16	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.63	20.43	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.62	20.42	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.30	19.10	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.42	20.22	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.68	20.48	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.66	20.46	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.30	19.10	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.42	20.22	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.68	20.48	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.43	20.23	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.32	19.12	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.31	19.11	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.46	19.26	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.41	19.21	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.45	18.25	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.23	19.03	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.48	19.28	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.44	19.24	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.44	18.24	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.36	19.16	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.56	19.36	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.42	19.22	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.53	18.33	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	5.18	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.14	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.18	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.96	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.00	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	6.38	13	PASS

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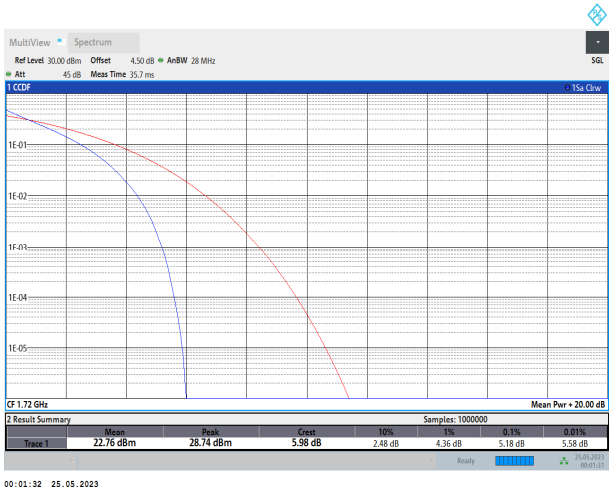
Test Graphs

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



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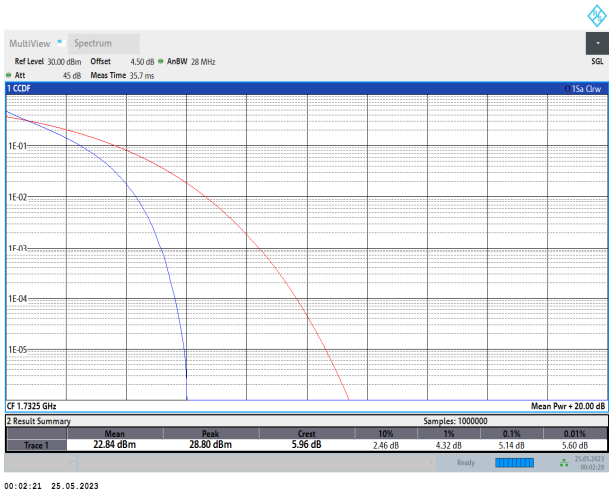

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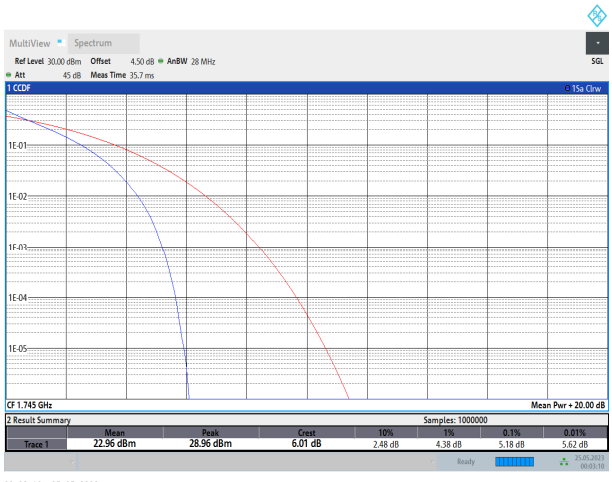
Band4-20MHz-QPSK-20300-100RB#0


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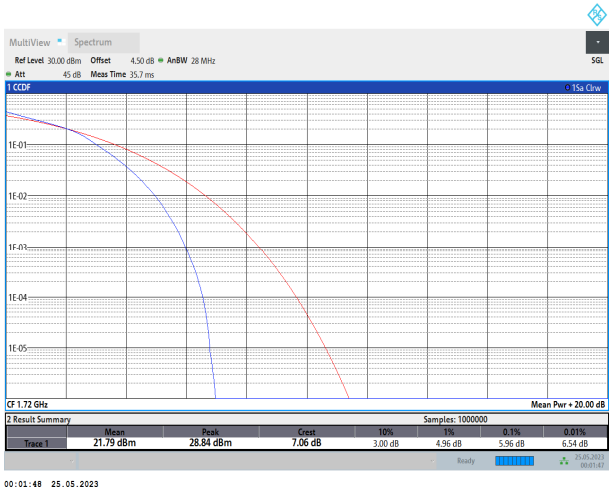

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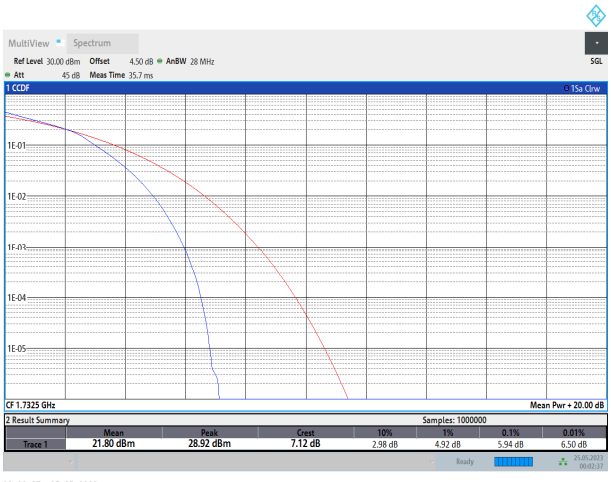
Band4-20MHz-16QAM-20175-100RB#0


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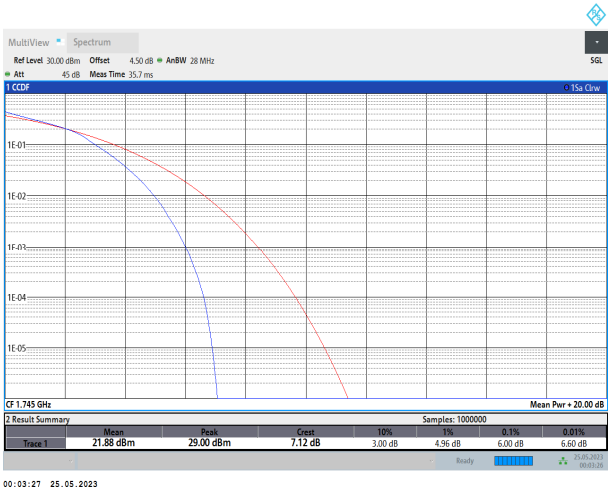

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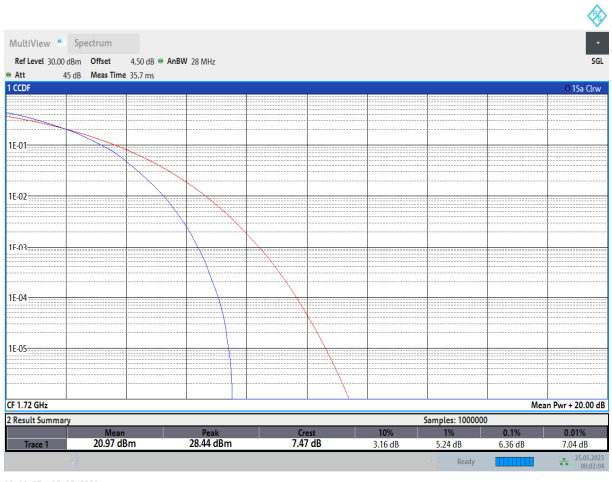
Band4-20MHz-64QAM-20050-100RB#0


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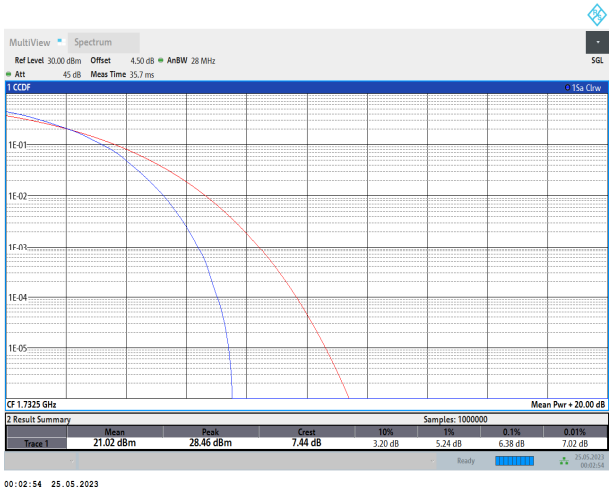

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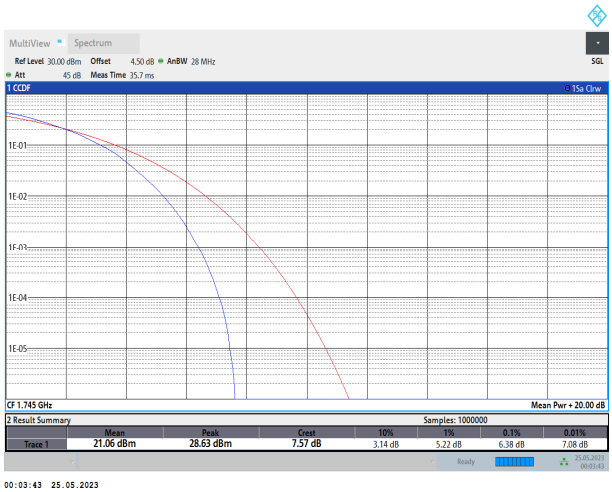

Modulation Characteristics

Test Result

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

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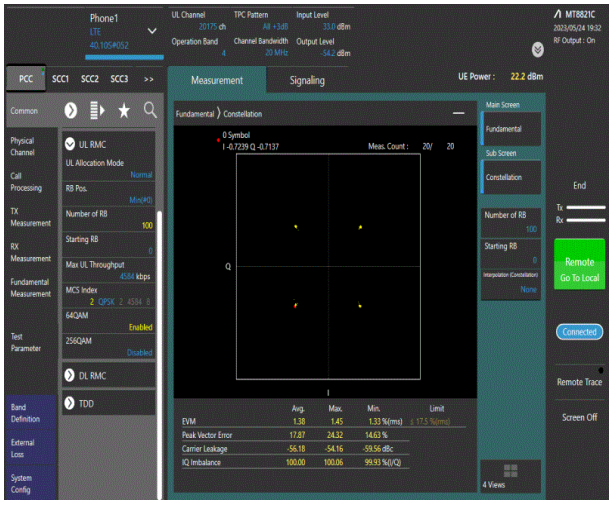

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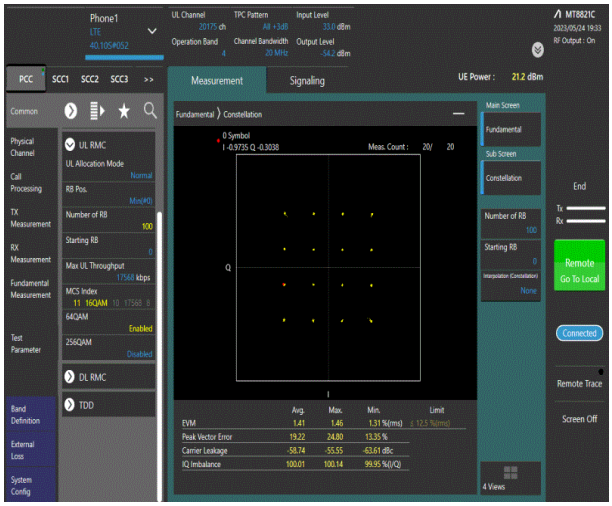

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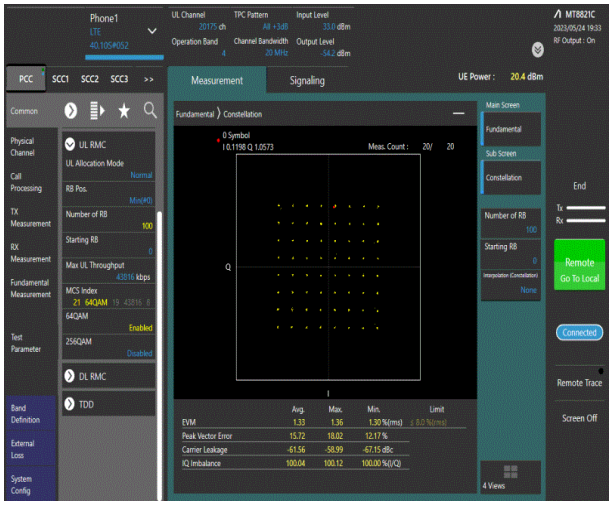

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.090	1.27	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.27	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.084	1.27	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.088	1.26	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.104	1.32	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.087	1.26	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.095	1.28	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.089	1.26	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.100	1.29	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.701	2.92	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.699	2.89	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.694	2.90	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.693	2.92	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.688	2.91	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.686	2.93	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.682	2.89	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.685	2.90	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.699	2.91	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.474	4.79	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.452	4.80	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.486	4.82	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.464	4.81	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.466	4.84	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.470	4.78	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.472	4.86	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.470	4.78	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.477	4.82	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.933	9.60	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.940	9.56	PASS

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Band4	10MHz	QPSK	20350	50RB#0	8.962	9.62	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.901	9.56	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.949	9.46	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.940	9.52	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.933	9.54	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.949	9.58	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.928	9.54	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.478	14.52	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.460	14.58	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.475	14.61	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.475	14.43	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.472	14.64	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.496	14.61	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.456	14.49	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.399	14.55	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.411	14.46	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.927	19.20	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.878	19.08	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.845	19.40	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.855	19.08	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.857	19.20	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.892	19.16	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.945	19.04	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.881	19.16	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.842	19.20	PASS

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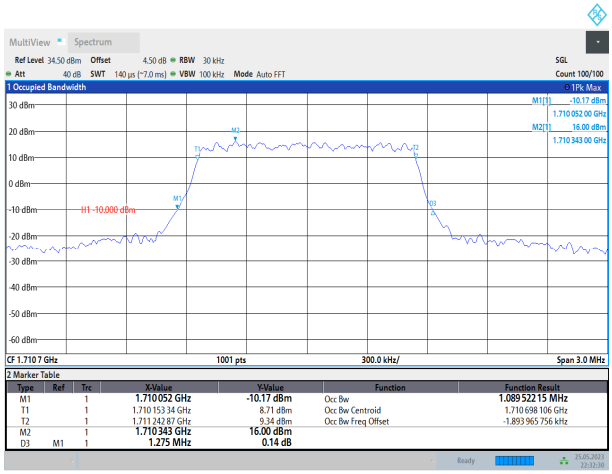
Test Graphs

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



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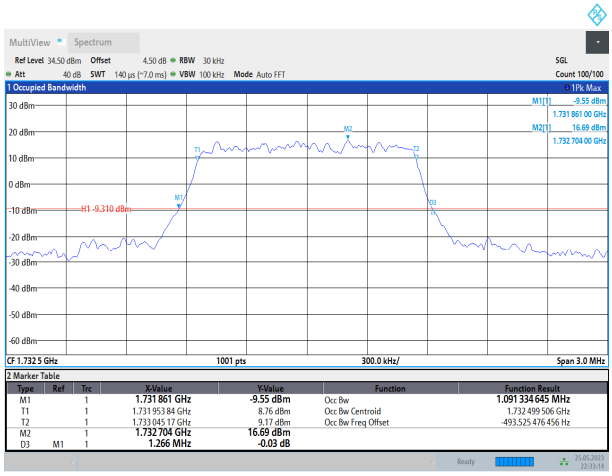

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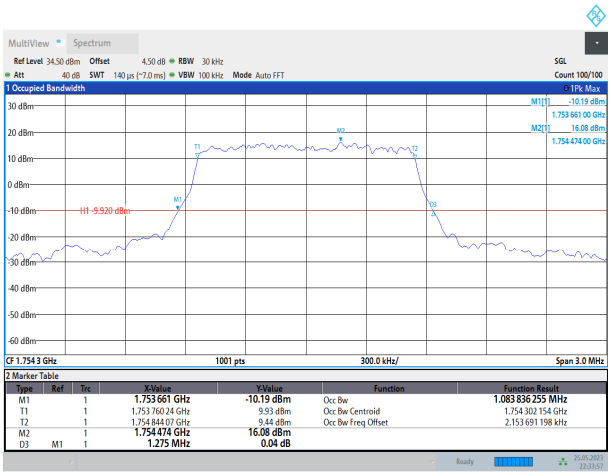
Band4-1.4MHz-QPSK-20393-6RB#0



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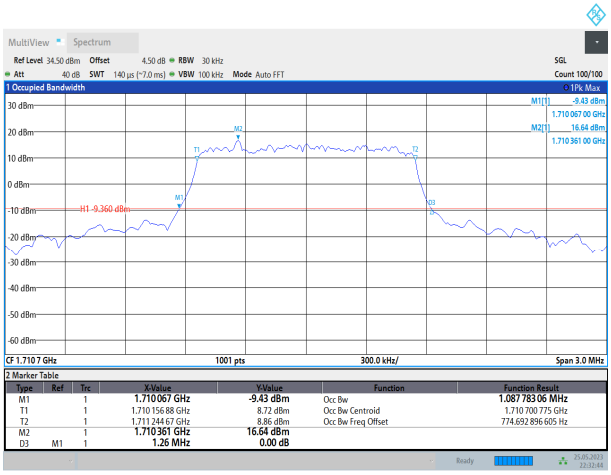

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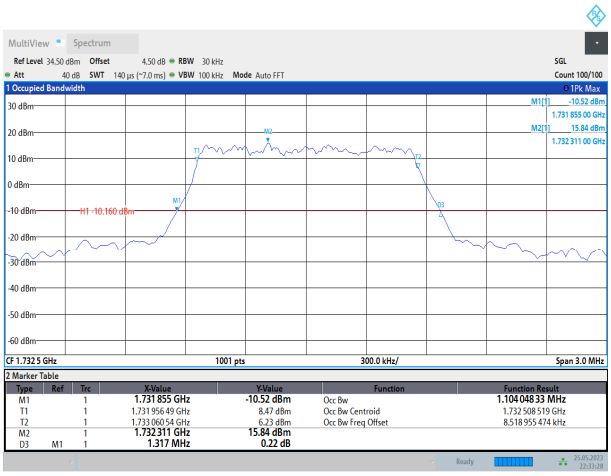

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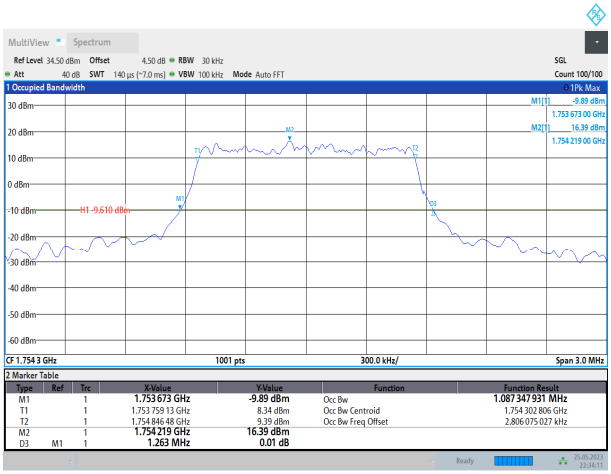

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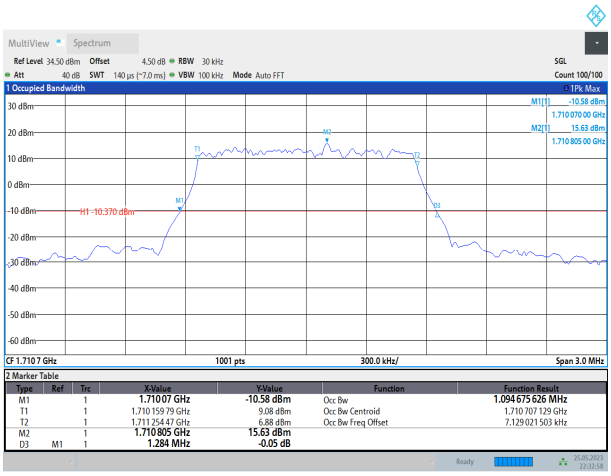
Band4-1.4MHz-64QAM-19957-6RB#0



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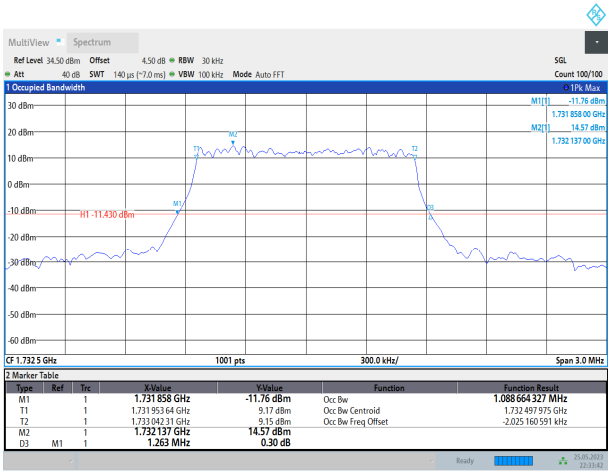

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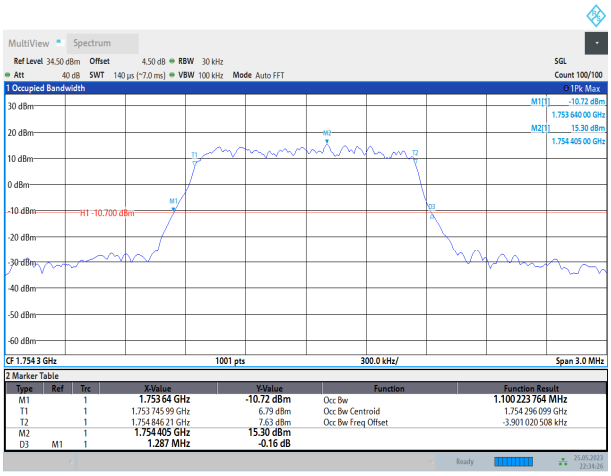

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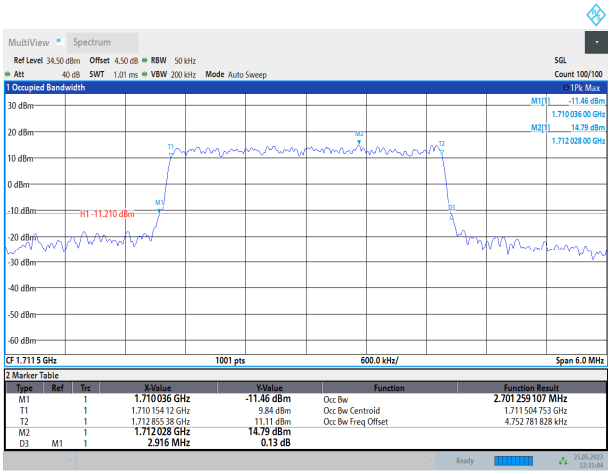

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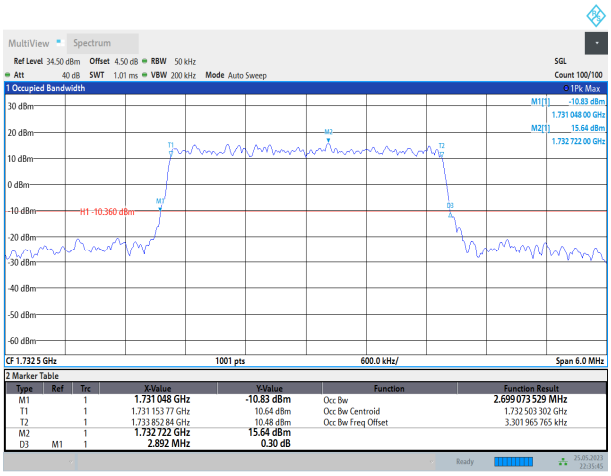

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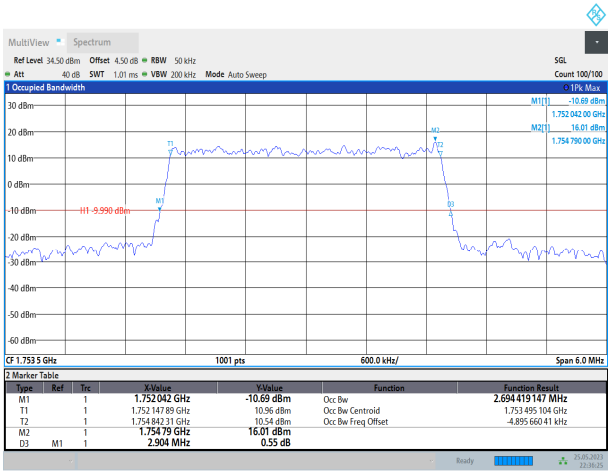

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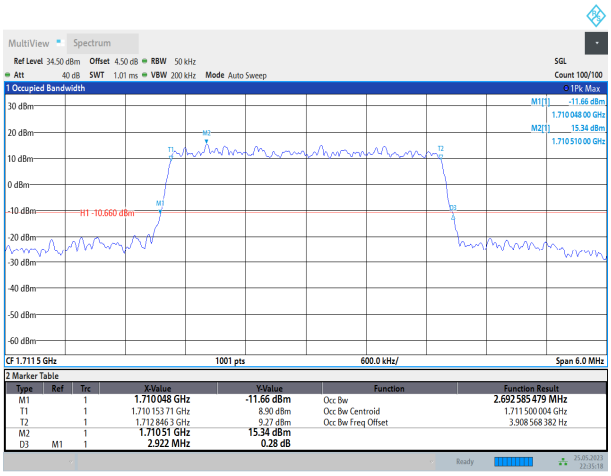
Band4-3MHz-16QAM-19965-15RB#0



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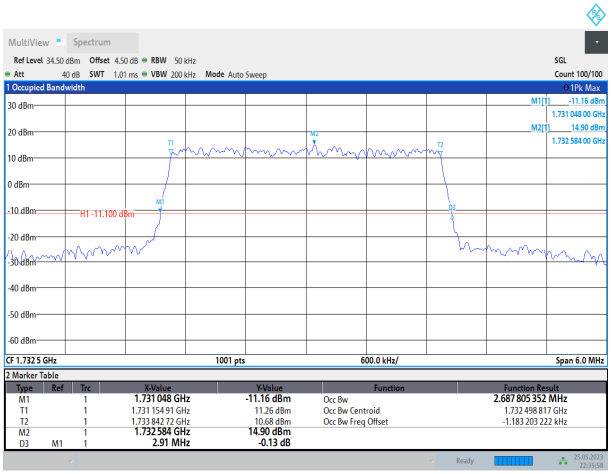
Band4-3MHz-16QAM-20175-15RB#0



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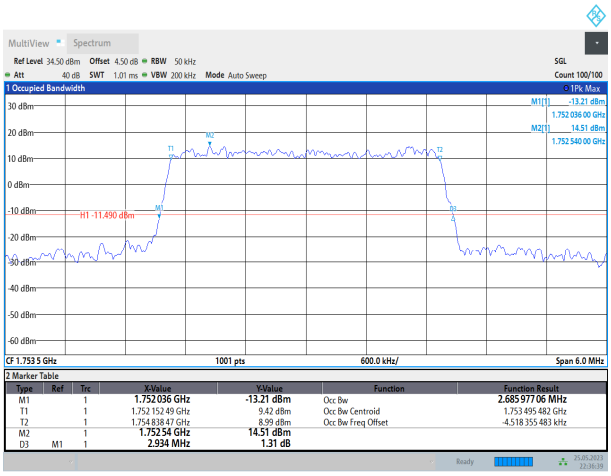
Band4-3MHz-16QAM-20385-15RB#0



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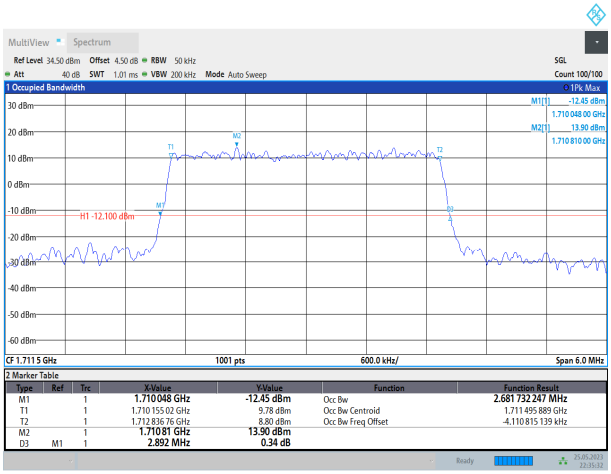
Band4-3MHz-64QAM-19965-15RB#0



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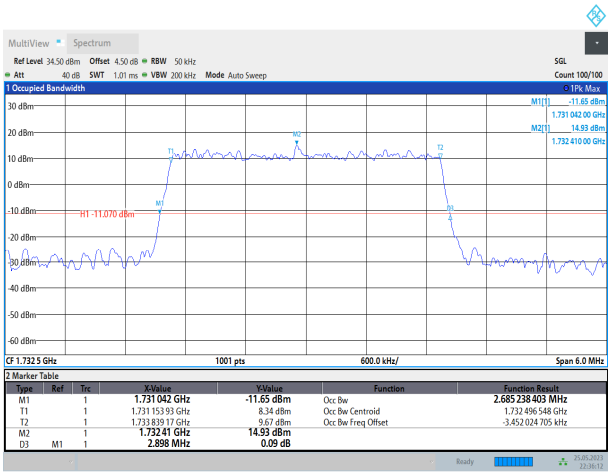
Band4-3MHz-64QAM-20175-15RB#0



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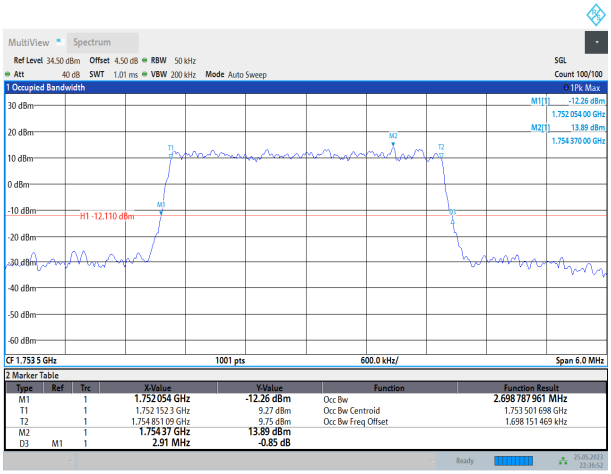
Band4-3MHz-64QAM-20385-15RB#0



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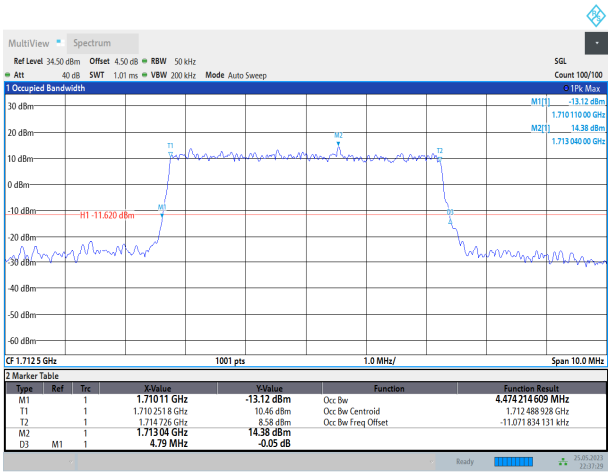
Band4-5MHz-QPSK-19975-25RB#0



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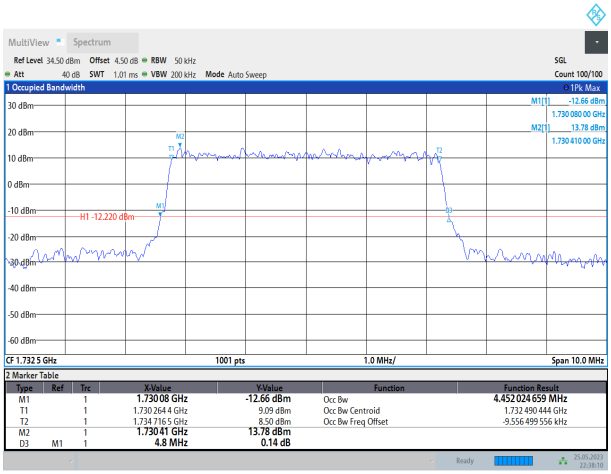

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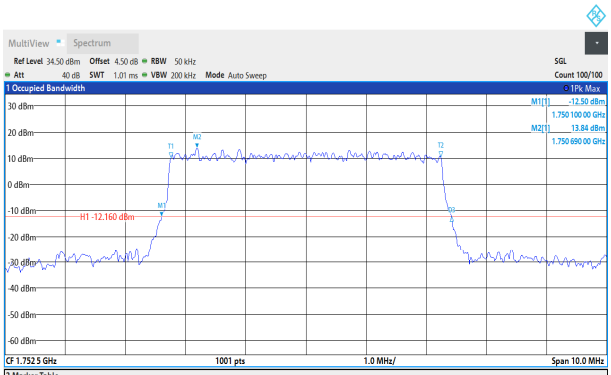
Band4-5MHz-QPSK-20375-25RB#0



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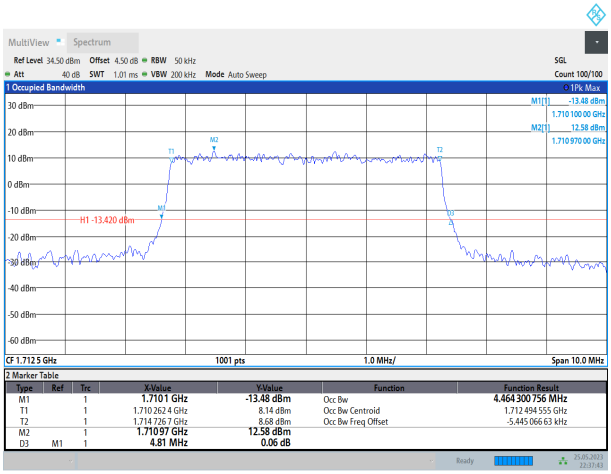
Band4-5MHz-16QAM-19975-25RB#0



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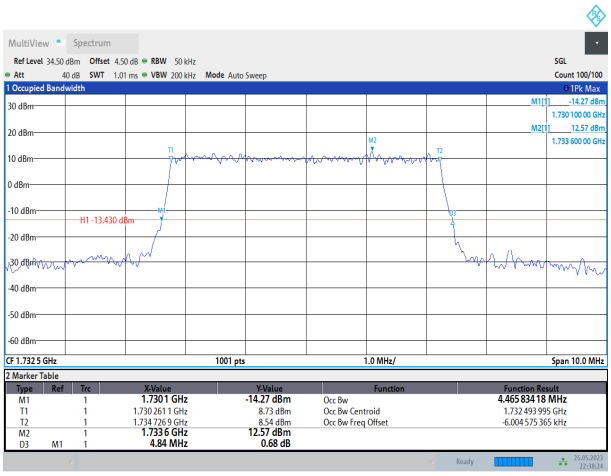
Band4-5MHz-16QAM-20175-25RB#0



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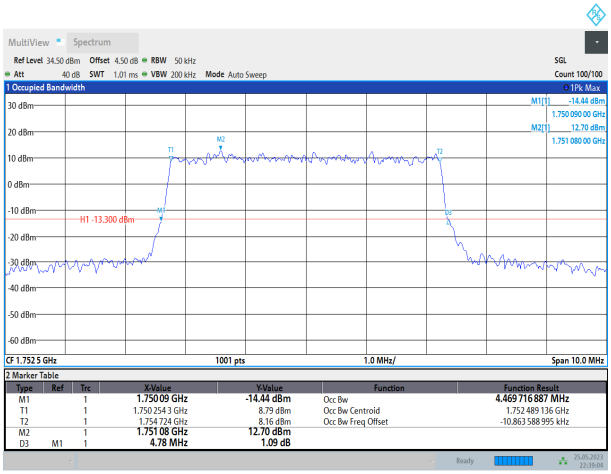
Band4-5MHz-16QAM-20375-25RB#0



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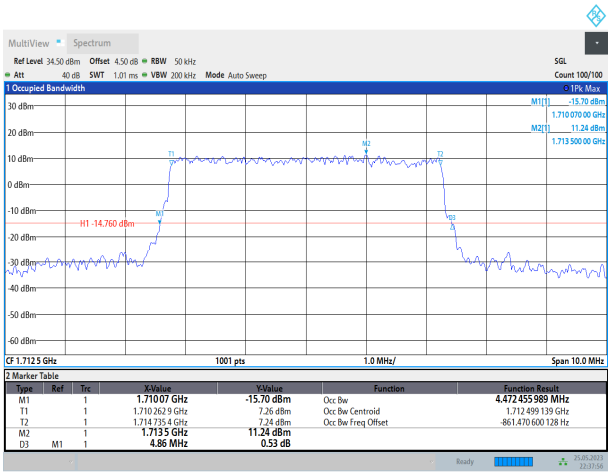
Band4-5MHz-64QAM-19975-25RB#0



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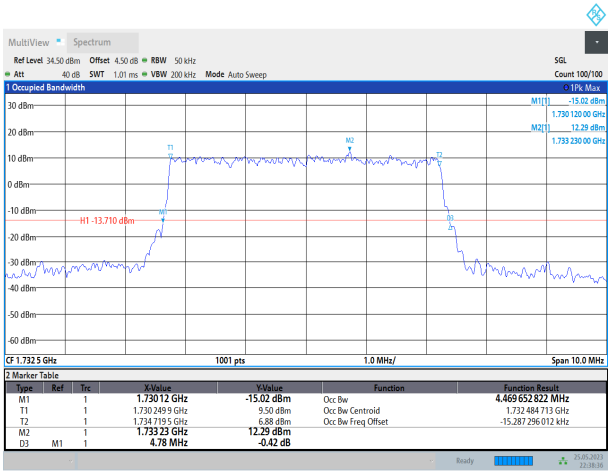

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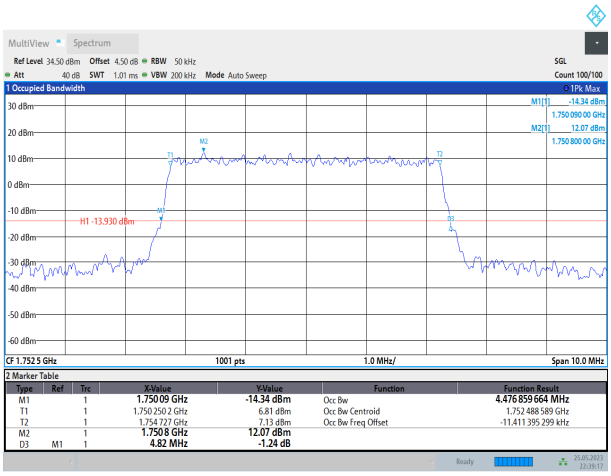
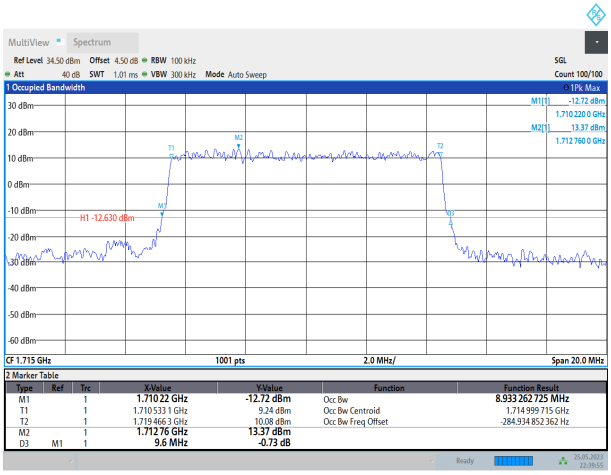
Band4-5MHz-64QAM-20375-25RB#0



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



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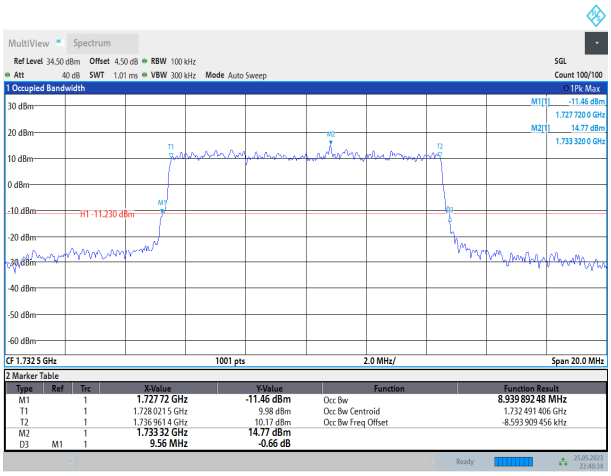
Band4-10MHz-QPSK-20175-50RB#0



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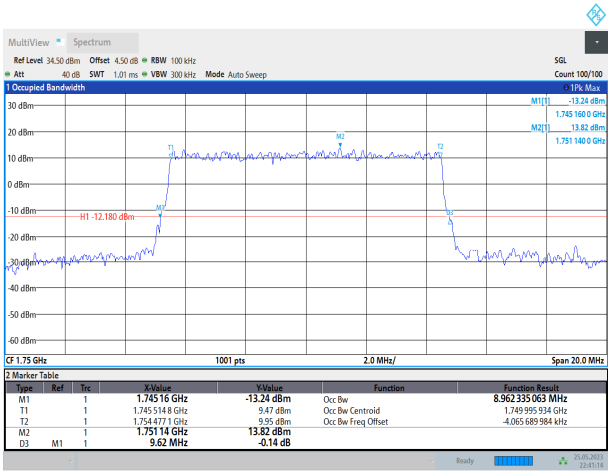
Band4-10MHz-QPSK-20350-50RB#0



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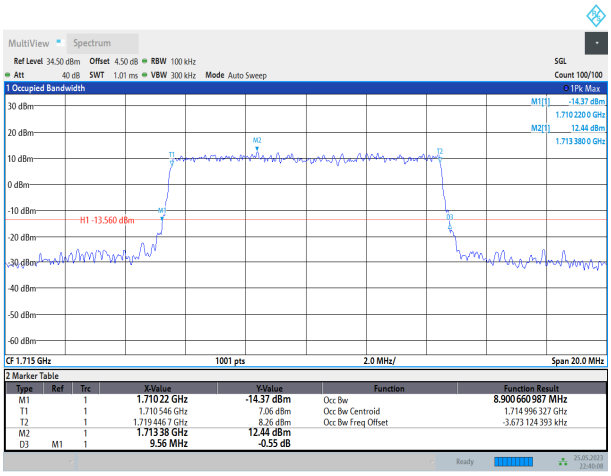
Band4-10MHz-16QAM-20000-50RB#0



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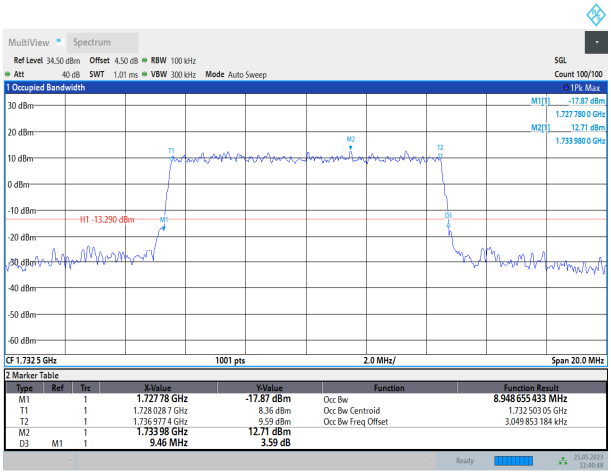

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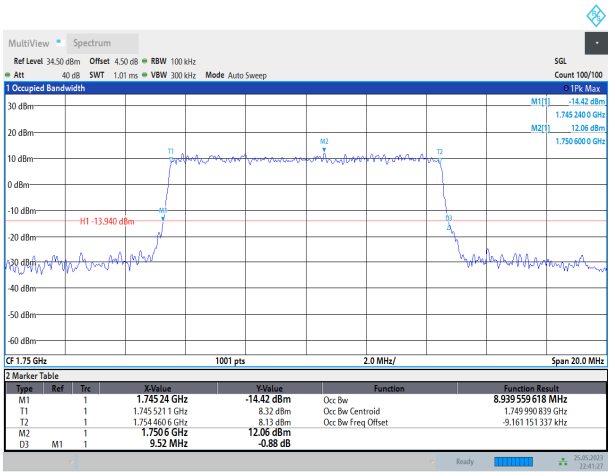

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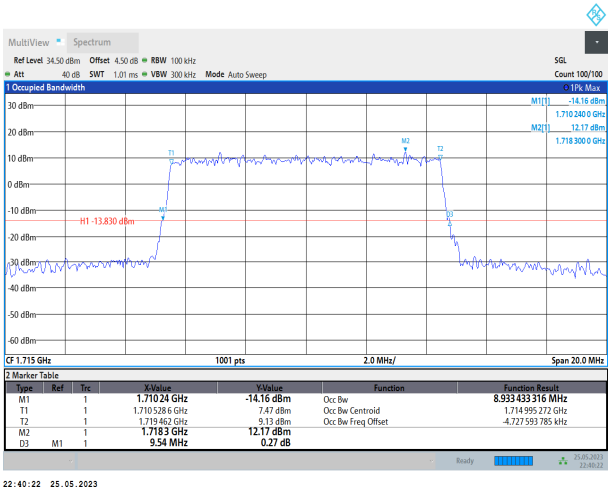

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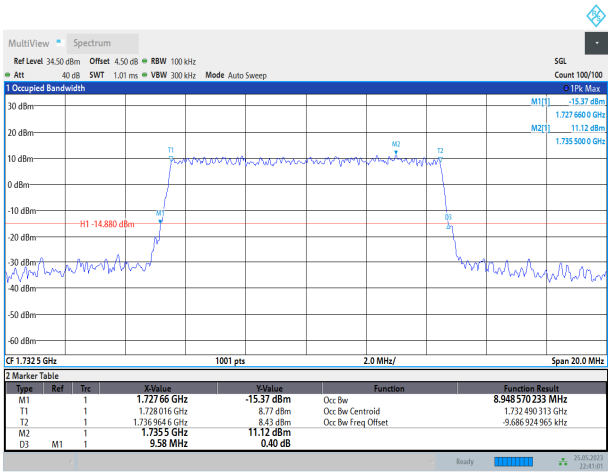

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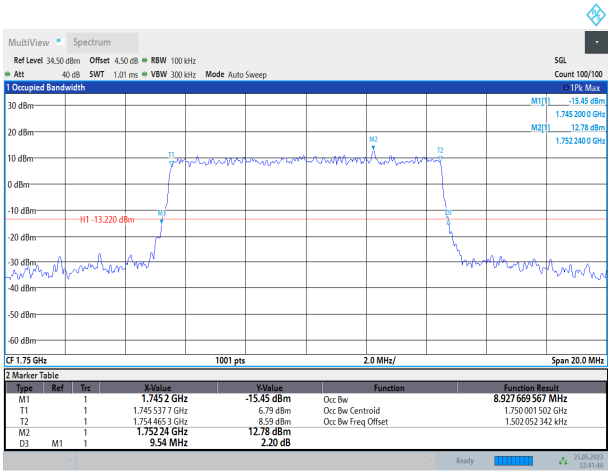

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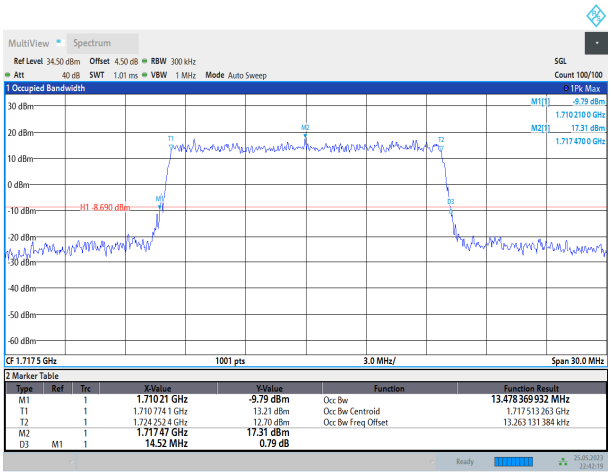

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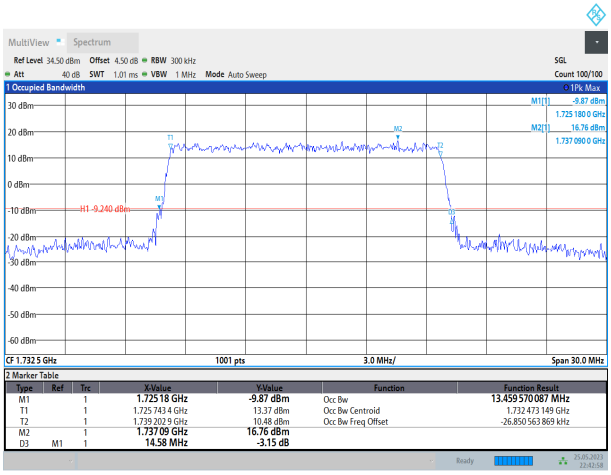
Band4-15MHz-QPSK-20175-75RB#0



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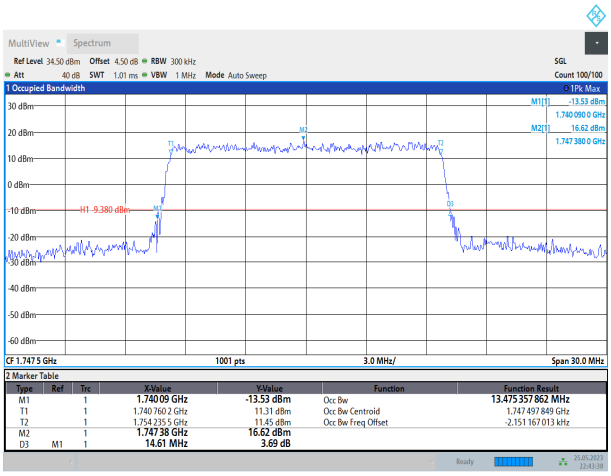

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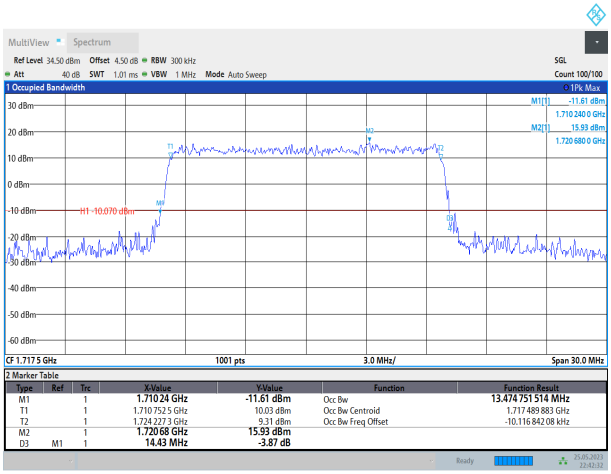

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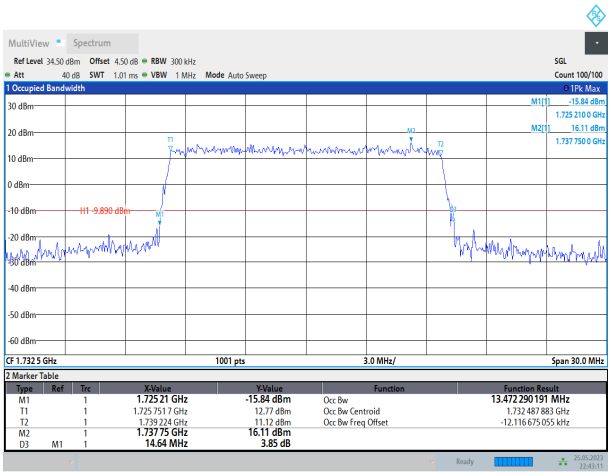

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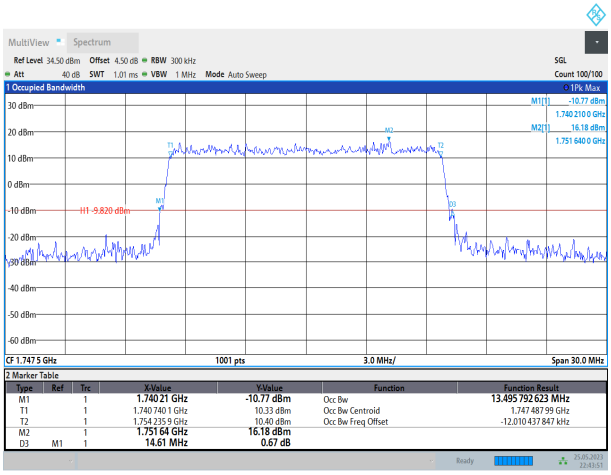

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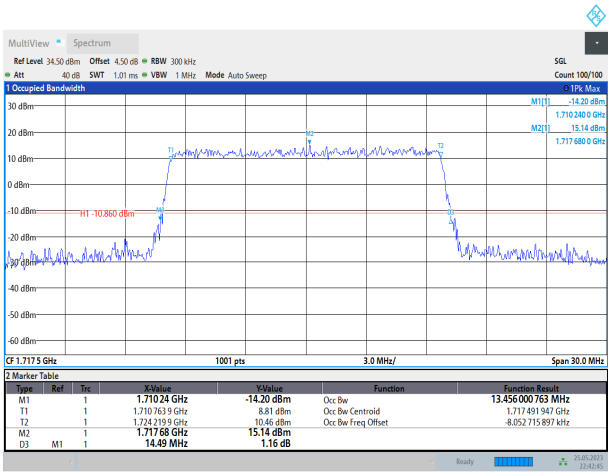

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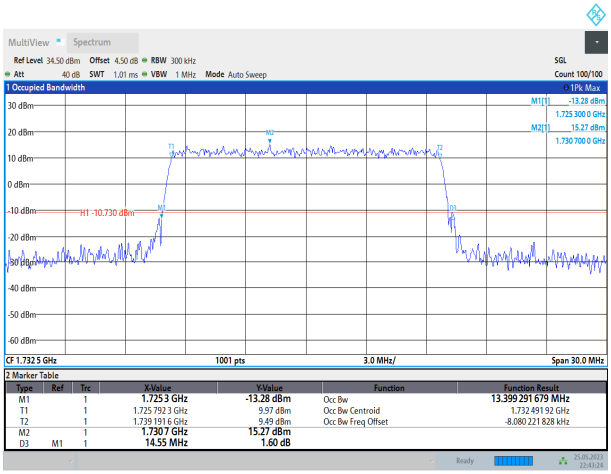

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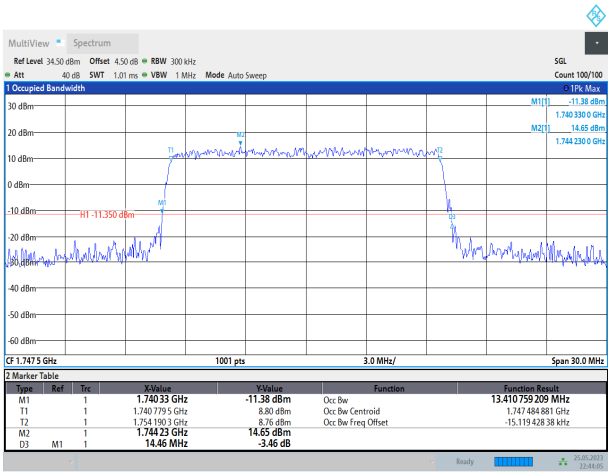

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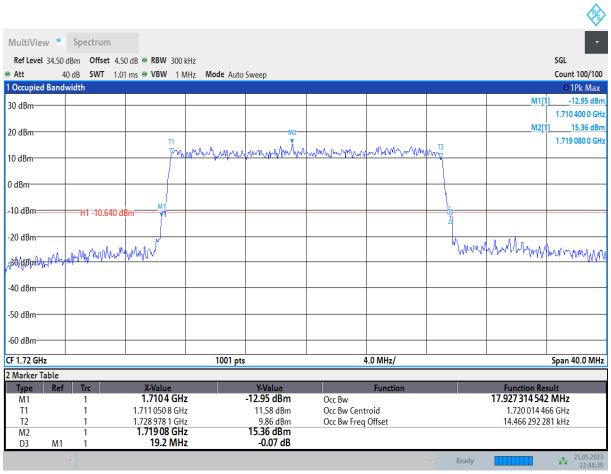

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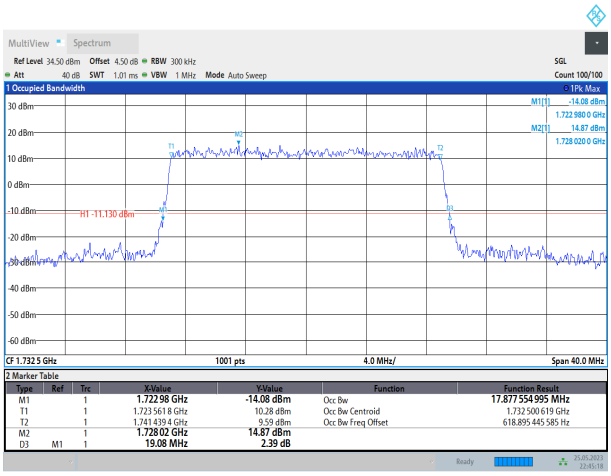

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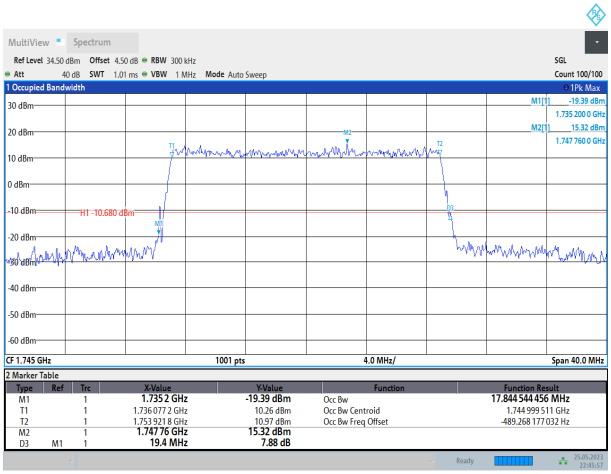

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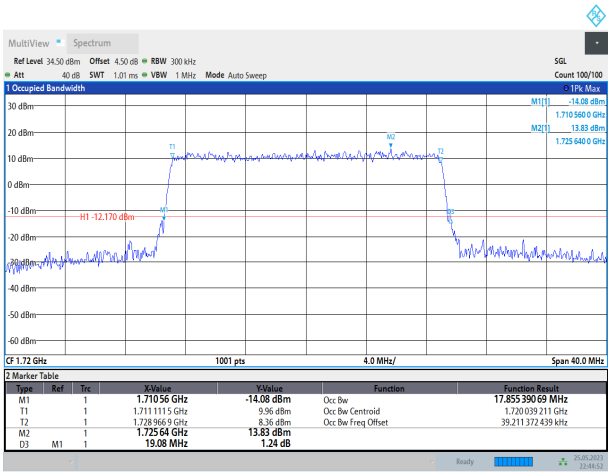

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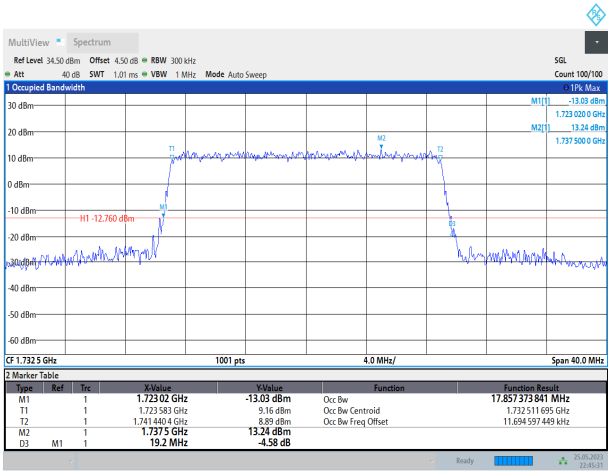
Band4-20MHz-16QAM-20175-100RB#0



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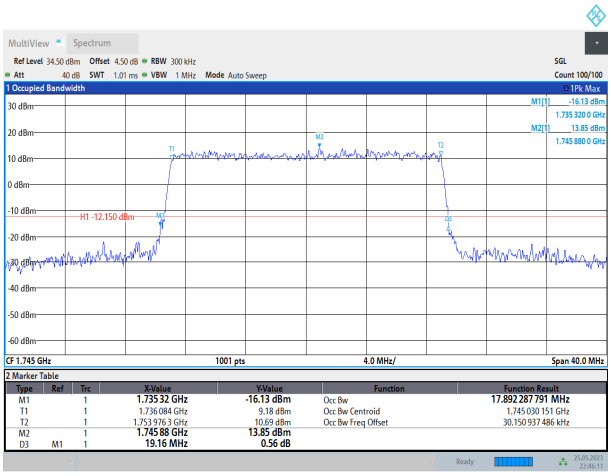
Band4-20MHz-16QAM-20300-100RB#0



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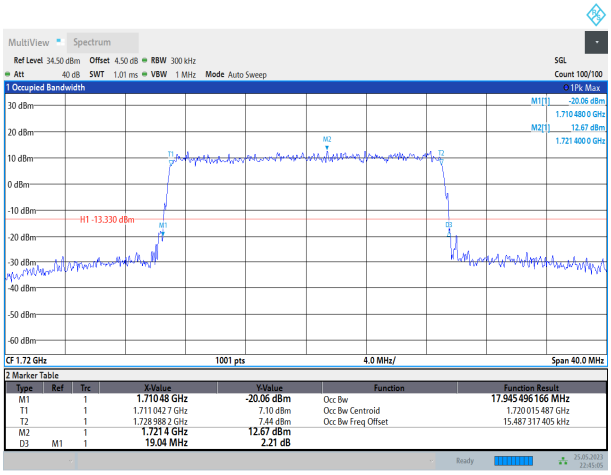

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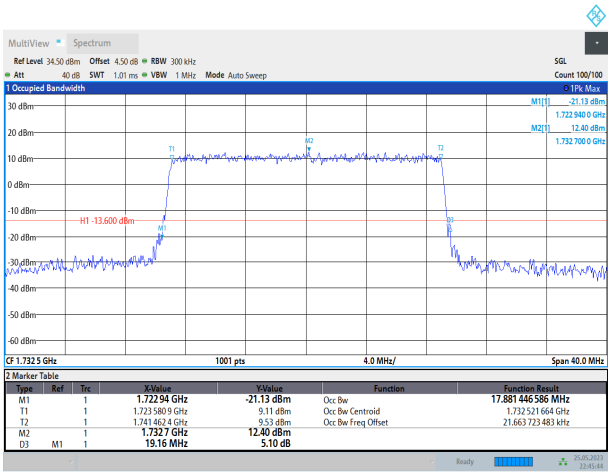
Band4-20MHz-64QAM-20175-100RB#0



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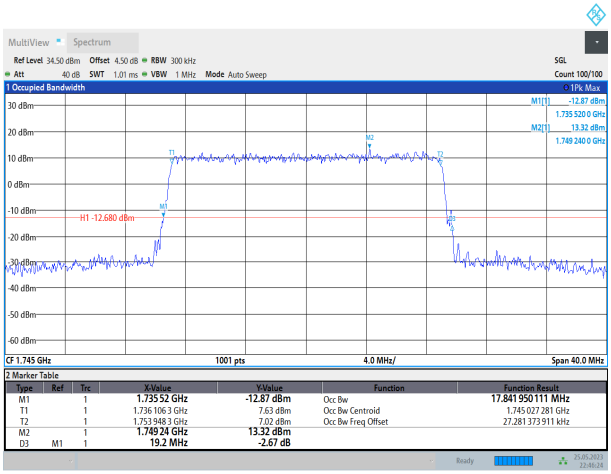

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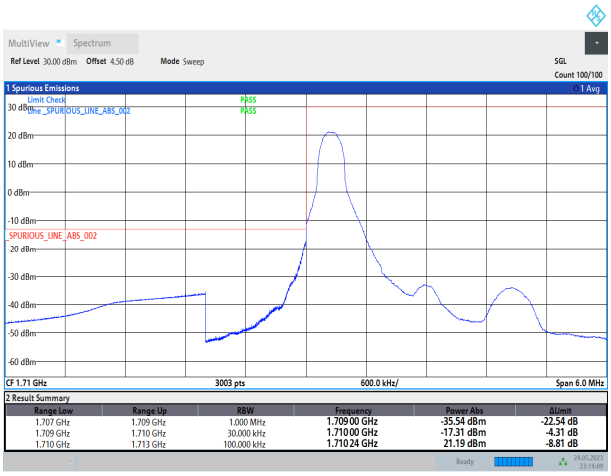
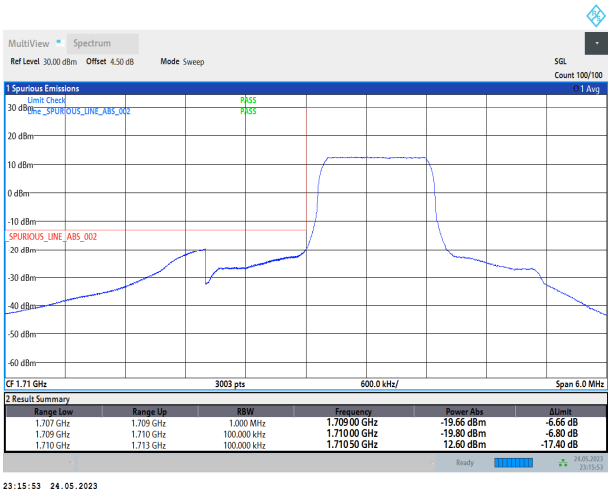
Band Edge

Test Graphs

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



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



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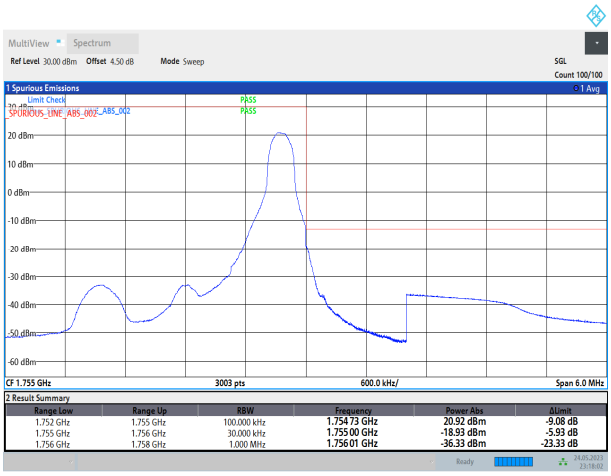
Band4-1.4MHz-QPSK-20393-1RB#5



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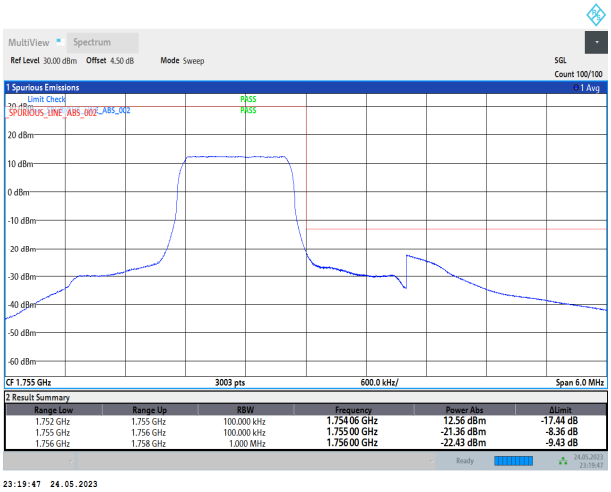

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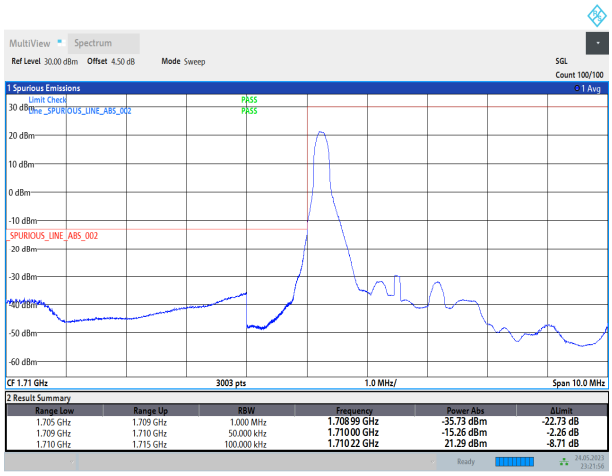
Band4-3MHz-QPSK-19965-1RB#0



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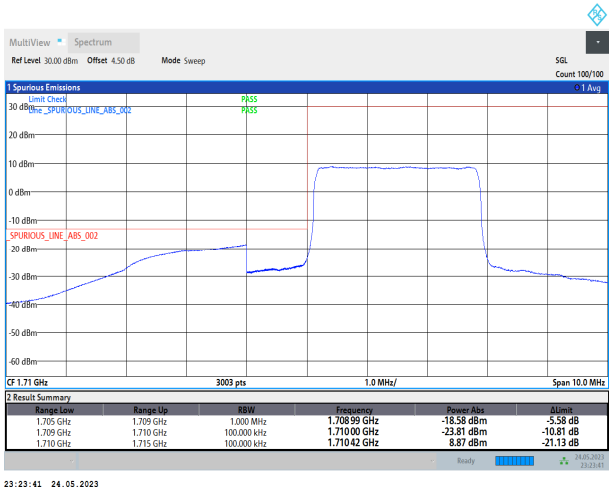

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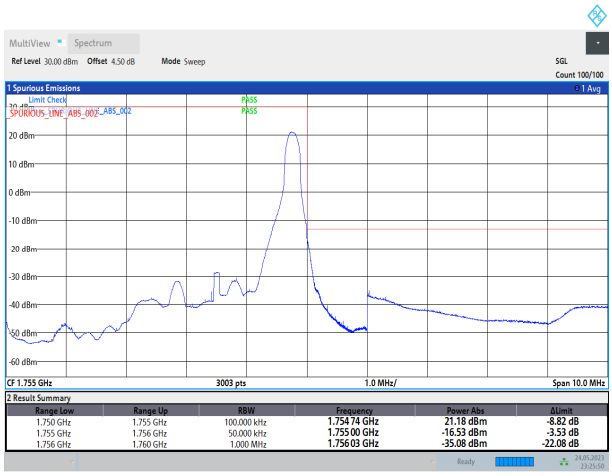
Band4-3MHz-QPSK-20385-1RB#14



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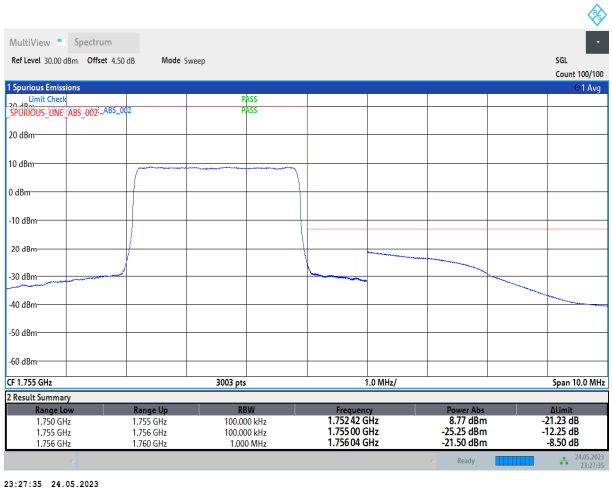

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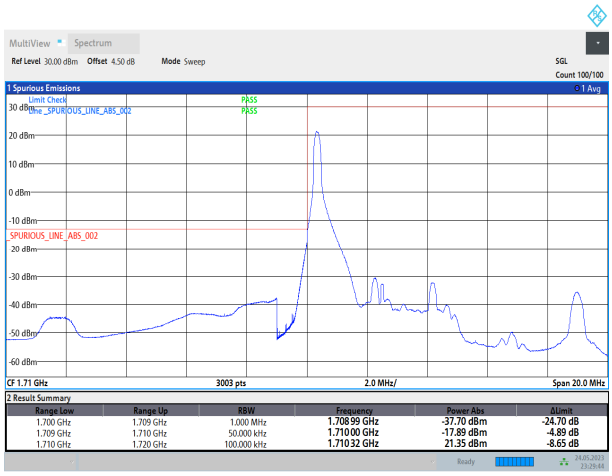
Band4-5MHz-QPSK-19975-1RB#0



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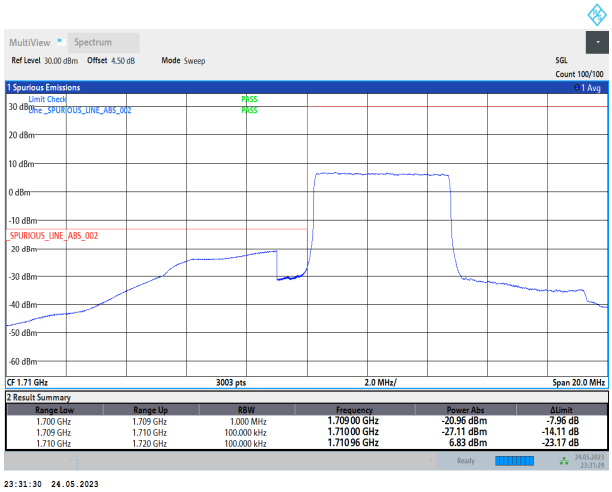

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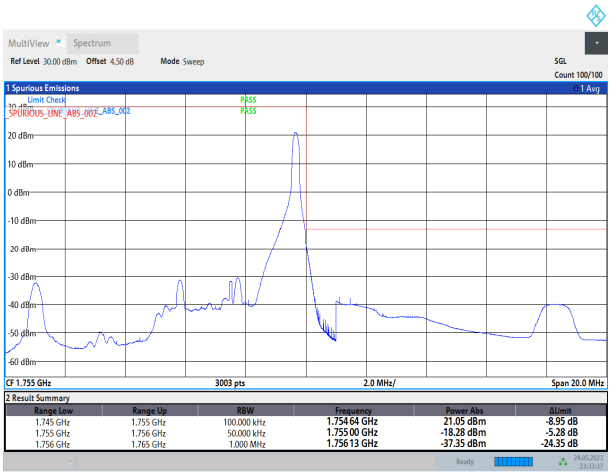
Band4-5MHz-QPSK-20375-1RB#24



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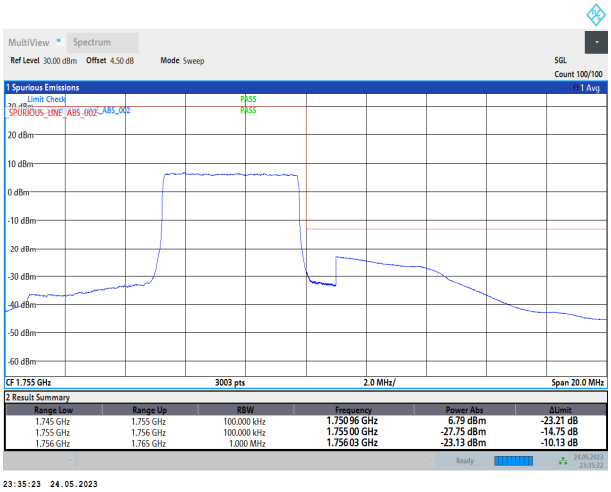

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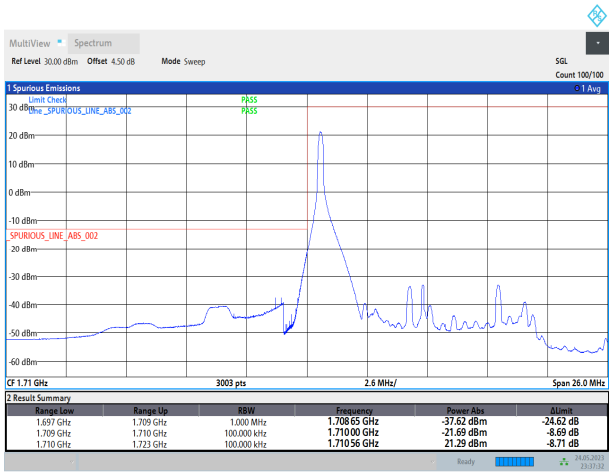
Band4-10MHz-QPSK-20000-1RB#0



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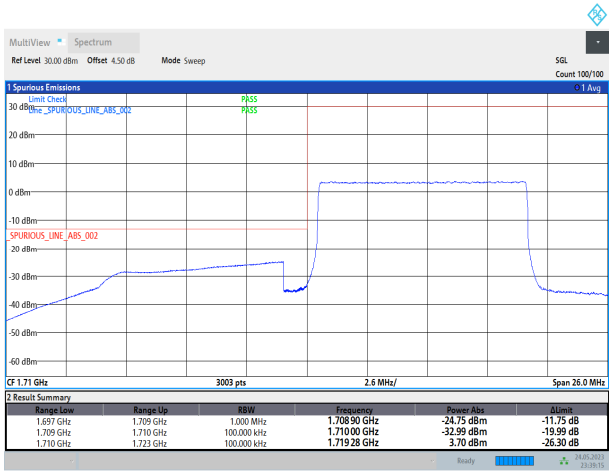

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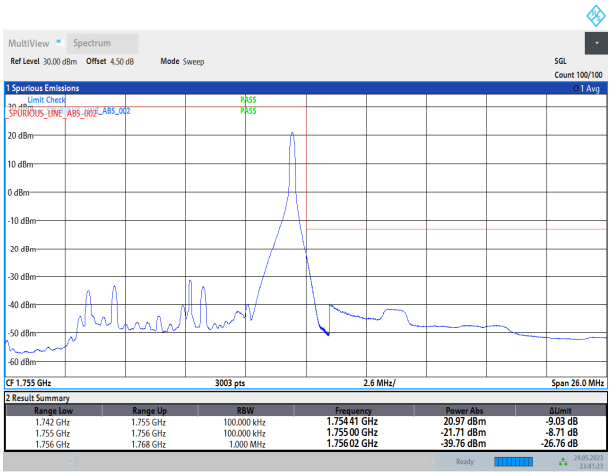
Band4-10MHz-QPSK-20350-1RB#49



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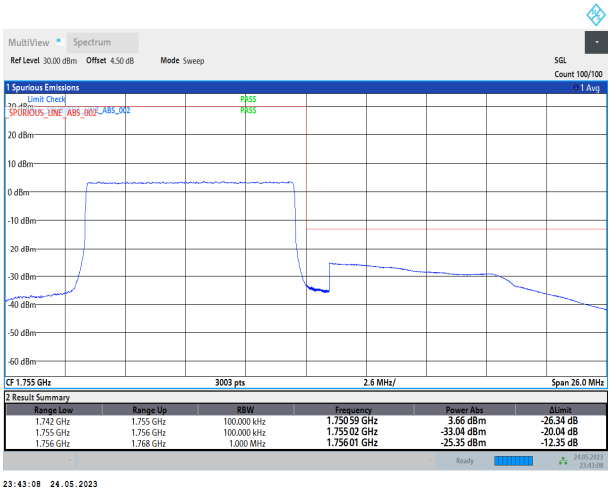

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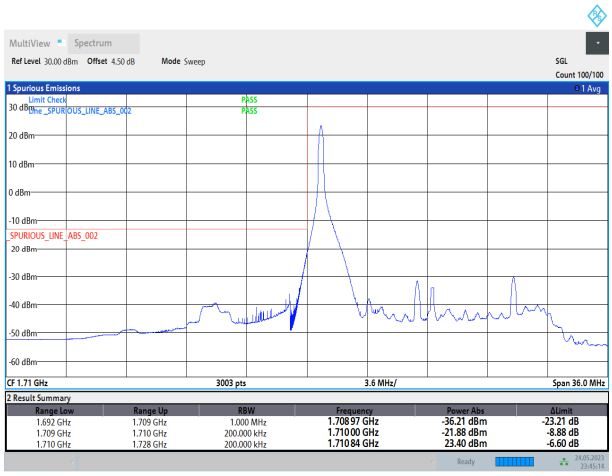
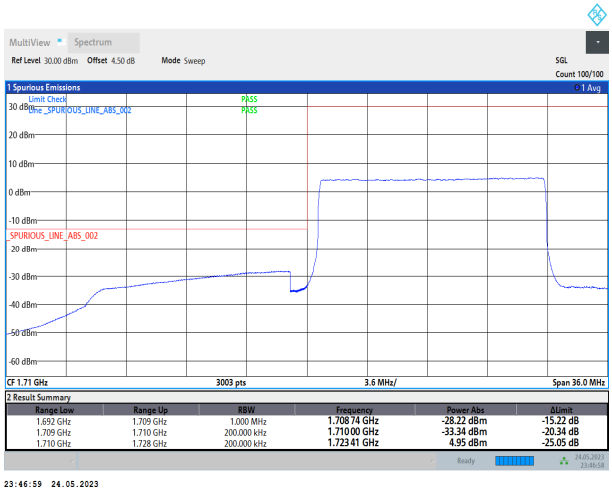
Band4-15MHz-QPSK-20025-1RB#0



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



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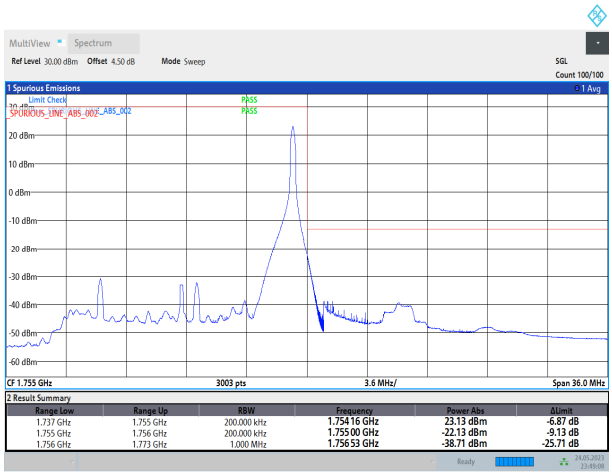
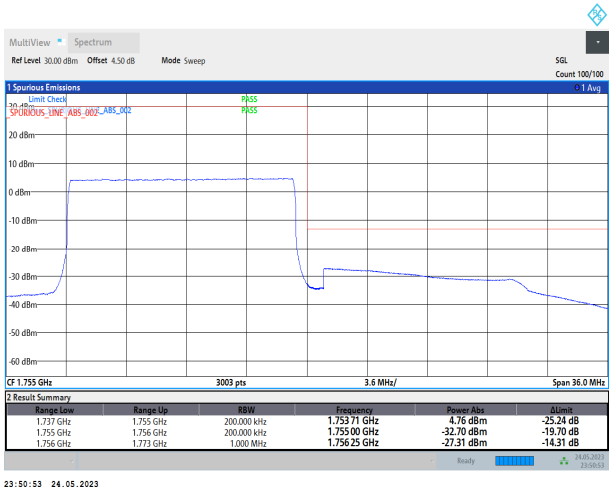
Band4-15MHz-QPSK-20325-1RB#74



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



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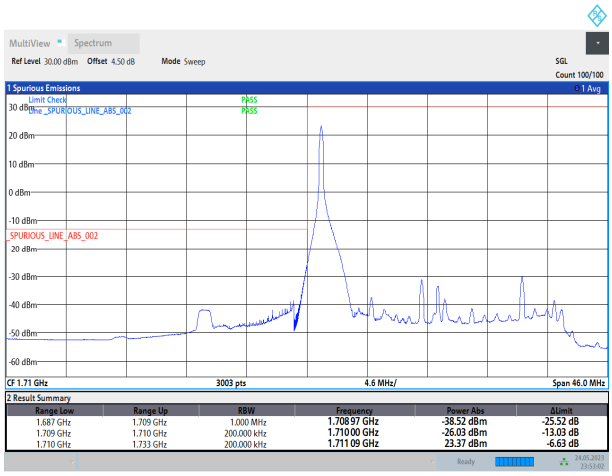
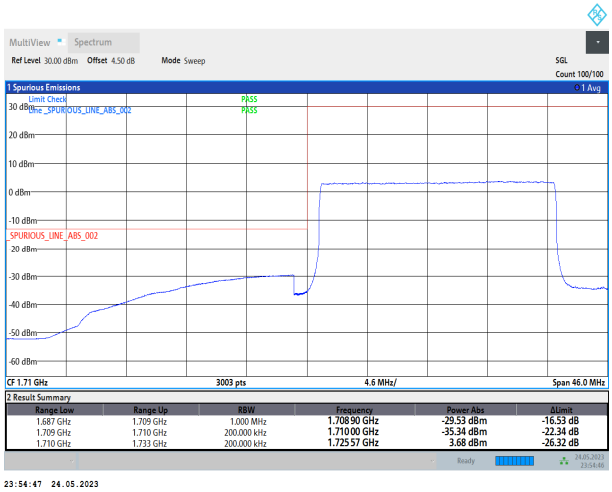
Band4-20MHz-QPSK-20050-1RB#0



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



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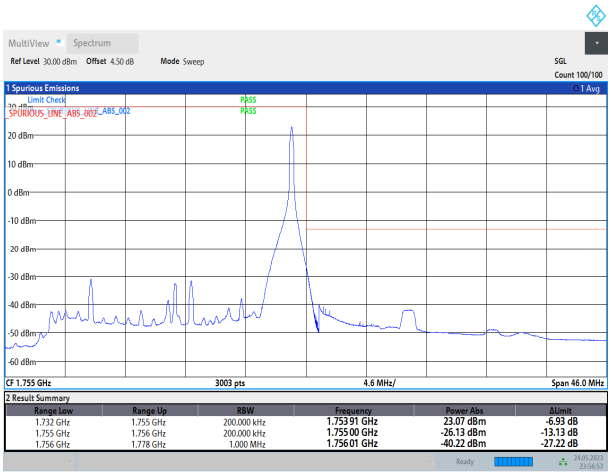
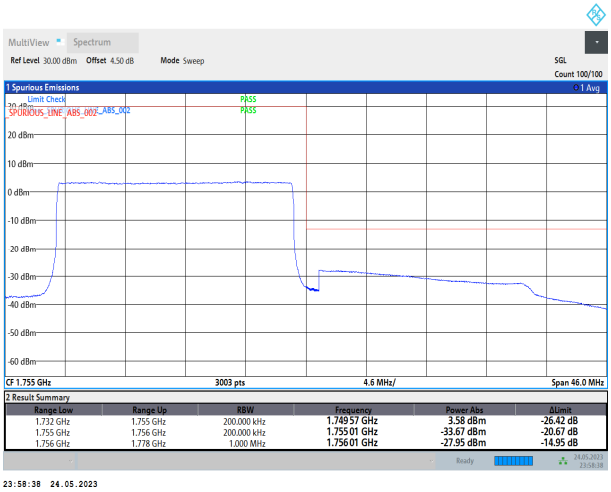
Band4-20MHz-QPSK-20300-1RB#99



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



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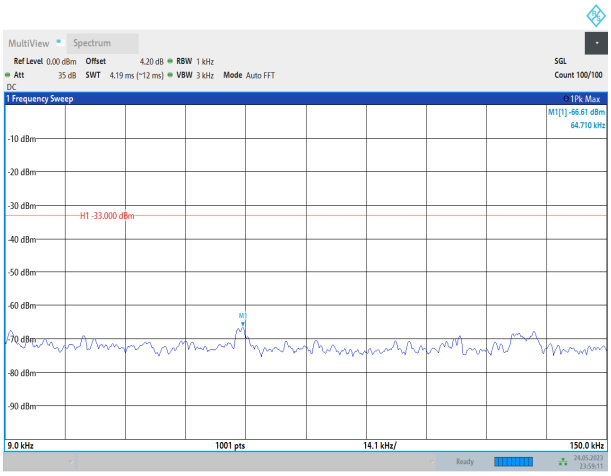
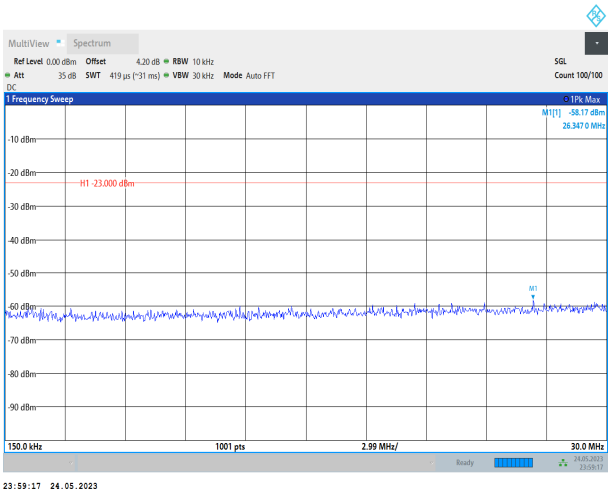
Conducted Spurious Emission

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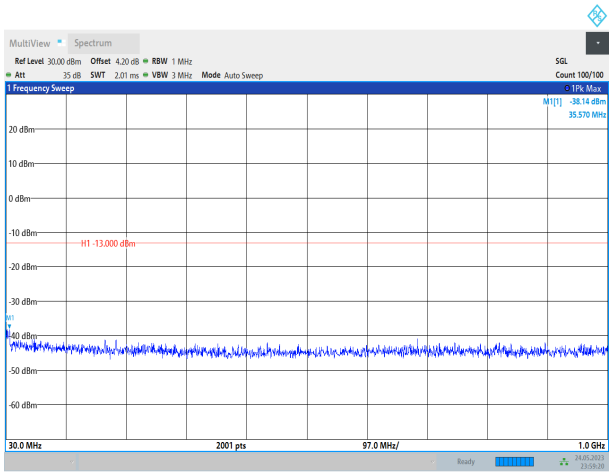
Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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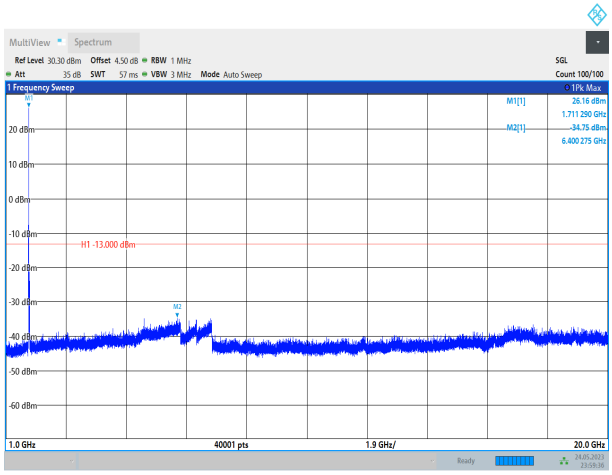
Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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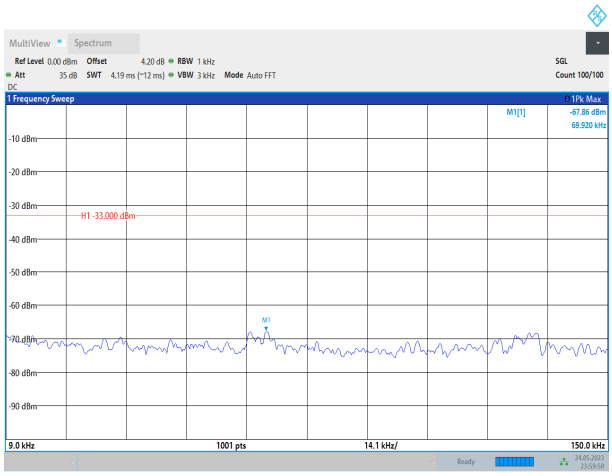
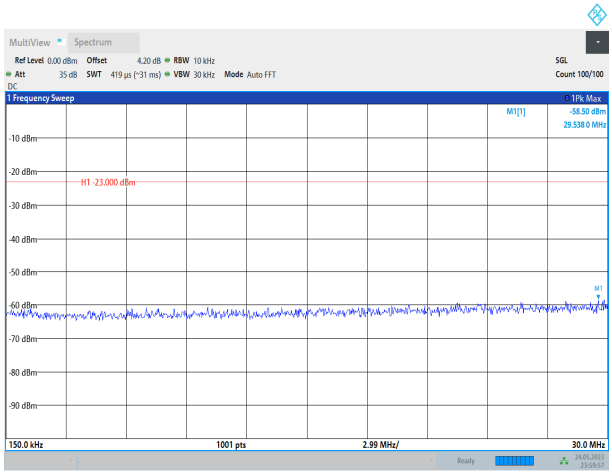
Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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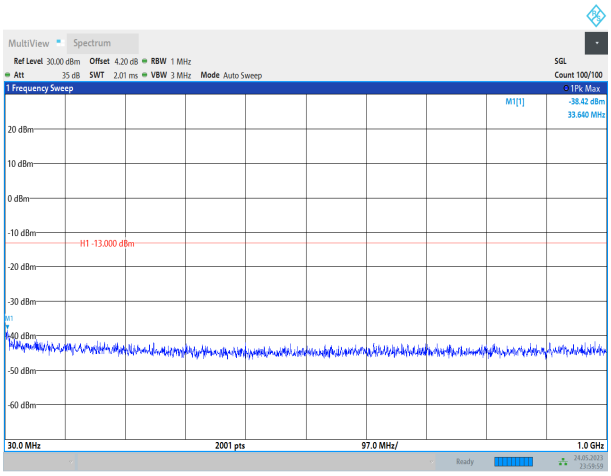
Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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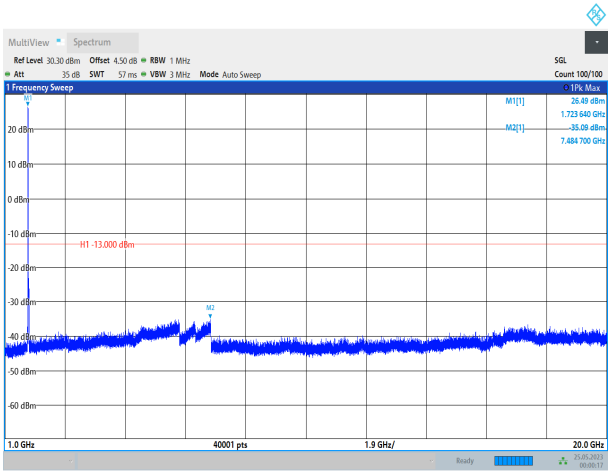
Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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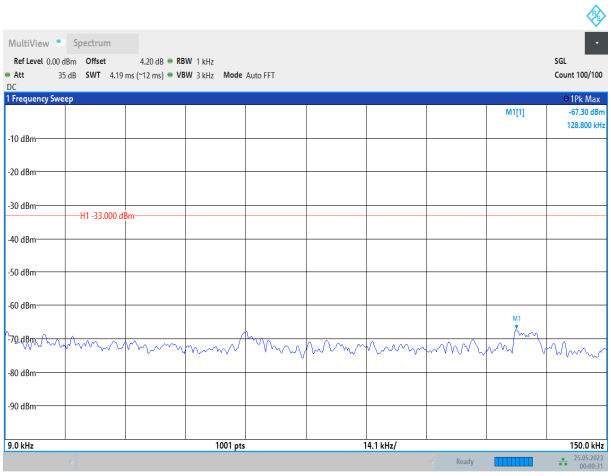
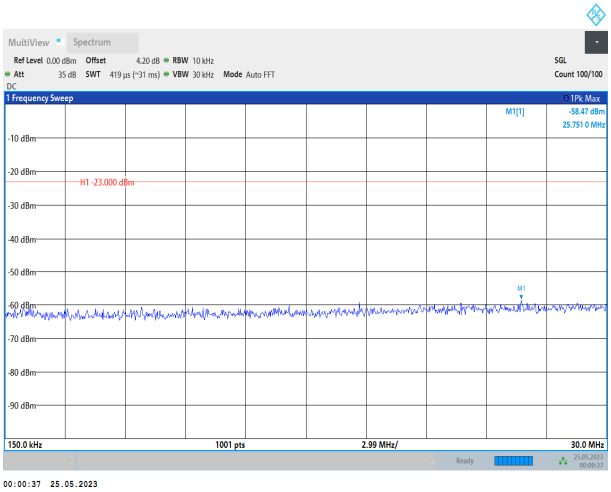
Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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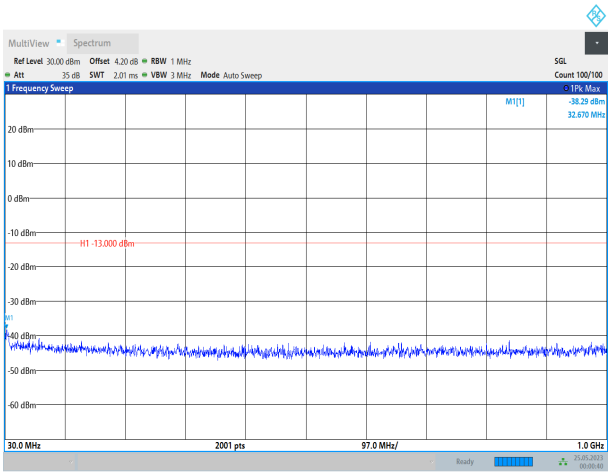
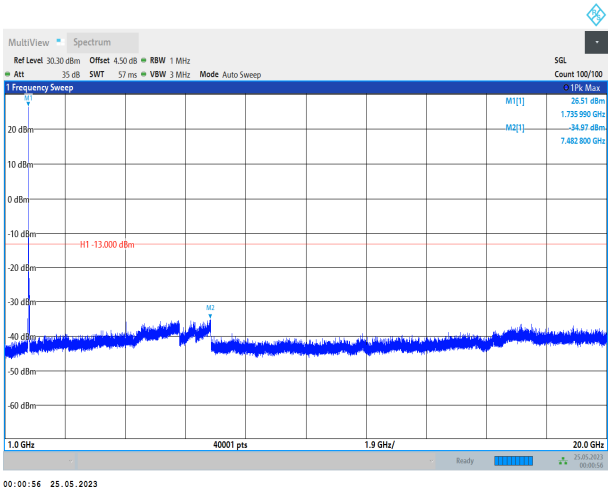
Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1_ Ant13
Test Channel = Low Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	42.47	-45.88	29.43	-69.24	-13.00	56.24	185	198	Horizontal
2	5133.27	40.31	-44.24	32.60	-66.59	-13.00	53.59	241	103	Horizontal
3	6844.36	39.41	-42.50	35.89	-62.46	-13.00	49.46	132	0	Horizontal
4	8555.45	36.91	-39.68	38.11	-59.92	-13.00	46.92	219	114	Horizontal
5	10266.54	33.35	-36.74	38.79	-59.85	-13.00	46.85	287	100	Horizontal
6	11977.63	31.84	-35.32	38.62	-60.11	-13.00	47.11	146	114	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	42.23	-45.88	29.43	-69.48	-13.00	56.48	204	295	Vertical
2	5133.27	40.03	-44.24	32.60	-66.87	-13.00	53.87	174	164	Vertical
3	6844.36	39.43	-42.50	35.89	-62.44	-13.00	49.44	189	312	Vertical
4	8555.45	36.19	-39.68	38.11	-60.64	-13.00	47.64	269	213	Vertical
5	10266.54	33.40	-36.74	38.79	-59.80	-13.00	46.80	307	98	Vertical
6	11977.63	31.34	-35.32	38.62	-60.61	-13.00	47.61	184	81	Vertical

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Test Band = LTE Band 4_ TM1_ Ant13
Test Channel = Mid Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	41.56	-45.82	29.42	-70.09	-13.00	57.09	218	26	Horizontal
2	5170.77	41.38	-44.19	32.60	-65.47	-13.00	52.47	159	209	Horizontal
3	6894.36	40.24	-42.44	35.99	-61.47	-13.00	48.47	236	125	Horizontal
4	8617.95	35.98	-39.74	38.18	-60.84	-13.00	47.84	274	278	Horizontal
5	10341.54	34.31	-36.68	38.88	-58.75	-13.00	45.75	159	357	Horizontal
6	12065.13	32.51	-35.25	38.67	-59.34	-13.00	46.34	207	1	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	41.63	-45.82	29.42	-70.02	-13.00	57.02	129	296	Vertical
2	5170.77	41.54	-44.19	32.60	-65.31	-13.00	52.31	209	0	Vertical
3	6894.36	39.79	-42.44	35.99	-61.92	-13.00	48.92	288	197	Vertical
4	8617.95	35.66	-39.74	38.18	-61.16	-13.00	48.16	176	277	Vertical
5	10341.54	34.50	-36.68	38.88	-58.56	-13.00	45.56	238	115	Vertical
6	12065.13	32.55	-35.25	38.67	-59.30	-13.00	46.30	121	277	Vertical

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Test Band = LTE Band 4_ TM1_ Ant13
Test Channel = High Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	43.15	-45.76	29.41	-68.46	-13.00	55.46	178	225	Horizontal
2	5208.27	40.54	-44.14	32.60	-66.26	-13.00	53.26	152	357	Horizontal
3	6944.36	38.99	-42.50	36.09	-62.68	-13.00	49.68	209	209	Horizontal
4	8680.45	35.43	-39.46	38.25	-61.04	-13.00	48.04	236	126	Horizontal
5	10416.54	30.63	-36.46	38.96	-62.13	-13.00	49.13	268	0	Horizontal
6	12152.63	31.75	-35.22	38.75	-59.98	-13.00	46.98	279	1	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	42.09	-45.76	29.41	-69.52	-13.00	56.52	203	0	Vertical
2	5208.27	40.30	-44.14	32.60	-66.50	-13.00	53.50	297	345	Vertical
3	6944.36	39.01	-42.50	36.09	-62.66	-13.00	49.66	141	78	Vertical
4	8680.45	36.55	-39.46	38.25	-59.92	-13.00	46.92	156	357	Vertical
5	10416.54	31.43	-36.46	38.96	-61.33	-13.00	48.33	289	0	Vertical
6	12152.63	31.72	-35.22	38.75	-60.01	-13.00	47.01	221	0	Vertical

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Test Band = LTE Band 4_ TM1_ Ant31
Test Channel = Low Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	45.95	-45.88	29.43	-65.76	-13.00	52.76	174	110	Horizontal
2	5133.27	40.97	-44.24	32.60	-65.93	-13.00	52.93	208	262	Horizontal
3	6844.36	39.14	-42.50	35.89	-62.73	-13.00	49.73	219	313	Horizontal
4	8555.45	36.83	-39.68	38.11	-60.00	-13.00	47.00	245	345	Horizontal
5	10266.54	33.43	-36.74	38.79	-59.77	-13.00	46.77	119	194	Horizontal
6	11977.63	31.76	-35.32	38.62	-60.19	-13.00	47.19	234	194	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	44.92	-45.88	29.43	-66.79	-13.00	53.79	127	80	Vertical
2	5133.27	40.77	-44.24	32.60	-66.13	-13.00	53.13	241	247	Vertical
3	6844.36	39.89	-42.50	35.89	-61.98	-13.00	48.98	289	43	Vertical
4	8555.45	36.26	-39.68	38.11	-60.57	-13.00	47.57	161	0	Vertical
5	10266.54	33.62	-36.74	38.79	-59.58	-13.00	46.58	204	230	Vertical
6	11977.63	32.09	-35.32	38.62	-59.86	-13.00	46.86	175	313	Vertical

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Test Band = LTE Band 4_ TM1_ Ant31
Test Channel = Mid Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	42.27	-45.82	29.42	-69.38	-13.00	56.38	271	294	Horizontal
2	5170.77	41.24	-44.19	32.60	-65.61	-13.00	52.61	156	357	Horizontal
3	6894.36	40.17	-42.44	35.99	-61.54	-13.00	48.54	231	161	Horizontal
4	8617.95	35.56	-39.74	38.18	-61.26	-13.00	48.26	287	313	Horizontal
5	10341.54	34.06	-36.68	38.88	-59.00	-13.00	46.00	144	211	Horizontal
6	12065.13	33.26	-35.25	38.67	-58.59	-13.00	45.59	219	294	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	42.45	-45.82	29.42	-69.20	-13.00	56.20	134	59	Vertical
2	5170.77	41.20	-44.19	32.60	-65.65	-13.00	52.65	207	259	Vertical
3	6894.36	41.09	-42.44	35.99	-60.62	-13.00	47.62	184	259	Vertical
4	8617.95	36.44	-39.74	38.18	-60.38	-13.00	47.38	296	259	Vertical
5	10341.54	34.61	-36.68	38.88	-58.45	-13.00	45.45	241	141	Vertical
6	12065.13	32.46	-35.25	38.67	-59.39	-13.00	46.39	216	13	Vertical

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Test Band = LTE Band 4_ TM1_ Ant31
Test Channel = High Channel_20MHz

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	46.90	-45.76	29.41	-64.71	-13.00	51.71	182	94	Horizontal
2	5208.27	40.64	-44.14	32.60	-66.16	-13.00	53.16	190	0	Horizontal
3	6944.36	39.20	-42.50	36.09	-62.47	-13.00	49.47	263	210	Horizontal
4	8680.45	35.84	-39.46	38.25	-60.63	-13.00	47.63	274	5	Horizontal
5	10416.54	31.17	-36.46	38.96	-61.59	-13.00	48.59	143	327	Horizontal
6	12152.63	31.47	-35.22	38.75	-60.26	-13.00	47.26	218	227	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	44.94	-45.76	29.41	-66.67	-13.00	53.67	199	0	Vertical
2	5208.27	40.48	-44.14	32.60	-66.32	-13.00	53.32	247	1	Vertical
3	6944.36	39.42	-42.50	36.09	-62.25	-13.00	49.25	186	215	Vertical
4	8680.45	35.72	-39.46	38.25	-60.75	-13.00	47.75	164	181	Vertical
5	10416.54	30.93	-36.46	38.96	-61.83	-13.00	48.83	213	112	Vertical
6	12152.63	32.57	-35.22	38.75	-59.16	-13.00	46.16	149	215	Vertical

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Test Band = UL CA_4A_5A_ TM1_Ant11+Ant13
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.50	-25.29	25.58	-59.47	-13.00	46.47	218	75	Horizontal
2	2473.77	36.95	-24.01	27.85	-54.47	-13.00	41.47	189	31	Horizontal
3	3298.36	42.22	-45.88	29.48	-69.43	-13.00	56.43	144	126	Horizontal
4	3422.18	42.98	-45.88	29.43	-68.73	-13.00	55.73	153	143	Horizontal
5	5133.27	39.90	-44.24	32.60	-67.00	-13.00	54.00	262	310	Horizontal
6	6844.36	40.25	-42.50	35.89	-61.62	-13.00	48.62	142	28	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.80	-25.29	25.58	-59.17	-13.00	46.17	259	74	Vertical
2	2473.77	36.71	-24.01	27.85	-54.71	-13.00	41.71	271	203	Vertical
3	3298.36	41.96	-45.88	29.48	-69.69	-13.00	56.69	166	227	Vertical
4	3422.18	42.60	-45.88	29.43	-69.11	-13.00	56.11	234	0	Vertical
5	5133.27	41.40	-44.24	32.60	-65.50	-13.00	52.50	189	143	Vertical
6	6844.36	39.65	-42.50	35.89	-62.22	-13.00	49.22	215	312	Vertical

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Test Band = UL CA_4A_5A_ TM1_Ant11+Ant13
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	48.99	-45.82	29.42	-62.67	-13.00	49.67	214	298	Horizontal
2	9547.5	38.03	-38.13	38.55	-56.81	-13.00	43.81	186	0	Horizontal
3	1664.18	35.60	-25.24	25.57	-59.33	-13.00	46.33	292	245	Horizontal
4	2496.27	36.87	-23.89	27.89	-54.39	-13.00	41.39	142	286	Horizontal
5	5170.77	46.05	-44.19	32.60	-60.80	-13.00	47.80	165	298	Horizontal
6	6894.36	39.74	-42.44	35.99	-61.97	-13.00	48.97	273	32	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	54.87	-45.82	29.42	-56.79	-13.00	43.79	131	313	Vertical
2	5170.5	53.55	-44.19	32.60	-53.30	-13.00	40.30	204	313	Vertical
3	1664.18	35.46	-25.24	25.57	-59.47	-13.00	46.47	185	107	Vertical
4	2496.27	36.93	-23.89	27.89	-54.33	-13.00	41.33	165	359	Vertical
5	3328.36	42.65	-45.89	29.47	-69.04	-13.00	56.04	271	7	Vertical
6	6894.36	40.21	-42.44	35.99	-61.50	-13.00	48.50	196	111	Vertical

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Test Band = UL CA_4A_5A_ TM1_Ant11+Ant13
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8929.5	38.58	-38.96	38.52	-57.12	-13.00	44.12	174	162	Horizontal
2	10214.25	36.07	-36.59	38.74	-57.04	-13.00	44.04	248	112	Horizontal
3	12456	33.89	-35.23	39.06	-57.54	-13.00	44.54	195	126	Horizontal
4	3472.18	43.88	-45.76	29.41	-67.73	-13.00	54.73	235	126	Horizontal
5	5208.27	41.16	-44.14	32.60	-65.64	-13.00	52.64	164	0	Horizontal
6	6944.36	39.45	-42.50	36.09	-62.22	-13.00	49.22	270	310	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8966.25	38.31	-38.82	38.56	-57.21	-13.00	44.21	154	113	Vertical
2	10848.75	34.27	-35.70	39.43	-57.26	-13.00	44.26	263	147	Vertical
3	13849.5	34.07	-34.74	40.11	-55.82	-13.00	42.82	148	26	Vertical
4	3472.18	43.24	-45.76	29.41	-68.37	-13.00	55.37	256	213	Vertical
5	5208.27	41.14	-44.14	32.60	-65.66	-13.00	52.66	243	59	Vertical
6	6944.36	39.29	-42.50	36.09	-62.38	-13.00	49.38	125	163	Vertical

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Test Band = UL CA_4A_7A_ TM1_Ant11+Ant13
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	46.84	-45.88	29.43	-64.87	-25.00	39.87	142	320	Horizontal
2	5002.18	41.59	-44.92	32.60	-65.99	-25.00	40.99	186	357	Horizontal
3	5133.27	42.76	-44.24	32.60	-64.14	-25.00	39.14	239	199	Horizontal
4	6844.36	40.49	-42.50	35.89	-61.38	-25.00	36.38	274	239	Horizontal
5	7503.27	39.38	-41.59	36.51	-60.96	-25.00	35.96	185	1	Horizontal
6	10004.36	33.88	-37.13	38.50	-60.01	-25.00	35.01	165	178	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	46.02	-45.88	29.43	-65.69	-25.00	40.69	249	234	Vertical
2	5002.18	41.19	-44.92	32.60	-66.39	-25.00	41.39	228	193	Vertical
3	5133.27	41.51	-44.24	32.60	-65.39	-25.00	40.39	162	46	Vertical
4	6844.36	39.91	-42.50	35.89	-61.96	-25.00	36.96	247	340	Vertical
5	7503.27	39.15	-41.59	36.51	-61.19	-25.00	36.19	146	68	Vertical
6	10004.36	34.41	-37.13	38.50	-59.48	-25.00	34.48	203	111	Vertical

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Test Band = UL CA_4A_7A_ TM1 Ant11+Ant13
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	48.04	-45.82	29.42	-63.62	-25.00	38.62	174	219	Horizontal
2	5052.18	41.53	-44.60	32.60	-65.73	-25.00	40.73	189	300	Horizontal
3	5170.77	48.79	-44.19	32.60	-58.06	-25.00	33.06	263	198	Horizontal
4	6894.36	39.85	-42.44	35.99	-61.86	-25.00	36.86	244	0	Horizontal
5	7578.27	38.49	-41.33	36.66	-61.45	-25.00	36.45	175	56	Horizontal
6	10104.36	34.75	-36.80	38.61	-58.69	-25.00	33.69	112	239	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	47.43	-45.82	29.42	-64.23	-25.00	39.23	198	215	Vertical
2	5052.18	41.21	-44.60	32.60	-66.05	-25.00	41.05	271	357	Vertical
3	5170.77	43.74	-44.19	32.60	-63.11	-25.00	38.11	324	215	Vertical
4	6894.36	40.49	-42.44	35.99	-61.22	-25.00	36.22	168	259	Vertical
5	7578.27	39.12	-41.33	36.66	-60.82	-25.00	35.82	241	12	Vertical
6	10104.36	33.81	-36.80	38.61	-59.63	-25.00	34.63	118	12	Vertical

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Test Band = UL CA_4A_7A_ TM1 Ant11+Ant13
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472	53.75	-45.76	29.41	-57.86	-25.00	32.86	147	149	Horizontal
2	5102.18	40.97	-44.29	32.60	-65.98	-25.00	40.98	159	87	Horizontal
3	5208.27	49.36	-44.14	32.60	-57.44	-25.00	32.44	268	233	Horizontal
4	6944.36	39.56	-42.50	36.09	-62.11	-25.00	37.11	273	341	Horizontal
5	7653.27	37.56	-41.30	36.81	-62.19	-25.00	37.19	156	252	Horizontal
6	10204.36	35.91	-36.56	38.72	-57.19	-25.00	32.19	241	149	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	50.59	-45.76	29.41	-61.02	-25.00	36.02	195	217	Vertical
2	5102.18	41.09	-44.29	32.60	-65.86	-25.00	40.86	241	198	Vertical
3	5208.27	49.57	-44.14	32.60	-57.23	-25.00	32.23	186	217	Vertical
4	6944.36	39.81	-42.50	36.09	-61.86	-25.00	36.86	277	30	Vertical
5	7653.27	38.44	-41.30	36.81	-61.31	-25.00	36.31	152	30	Vertical
6	10204.36	35.23	-36.56	38.72	-57.87	-25.00	32.87	132	279	Vertical

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Test Band = UL CA_4A_5A_ TM1_Ant11+Ant31
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2536	37.93	-23.94	28.02	-53.25	-13.00	40.25	218	359	Horizontal
2	4659	41.10	-44.35	31.78	-66.73	-13.00	53.73	249	15	Horizontal
3	8924.25	38.25	-38.98	38.52	-57.47	-13.00	44.47	163	229	Horizontal
4	3422.18	42.64	-45.88	29.43	-69.07	-13.00	56.07	287	246	Horizontal
5	5133.27	39.85	-44.24	32.60	-67.05	-13.00	54.05	145	229	Horizontal
6	6844.36	39.85	-42.50	35.89	-62.02	-13.00	49.02	166	356	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8014.5	39.52	-40.39	37.52	-58.61	-13.00	45.61	198	29	Vertical
2	9597.75	37.40	-38.10	38.54	-57.42	-13.00	44.42	277	229	Vertical
3	12226.5	34.12	-35.21	38.83	-57.52	-13.00	44.52	148	196	Vertical
4	3422.18	43.62	-45.88	29.43	-68.09	-13.00	55.09	166	262	Vertical
5	5133.27	40.39	-44.24	32.60	-66.51	-13.00	53.51	258	80	Vertical
6	6844.36	39.32	-42.50	35.89	-62.55	-13.00	49.55	196	94	Vertical

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Test Band = UL CA_4A_5A_ TM1_Ant11+Ant31
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	35.49	-25.24	25.57	-59.44	-13.00	46.44	185	316	Horizontal
2	2496.27	36.80	-23.89	27.89	-54.46	-13.00	41.46	149	40	Horizontal
3	3328.36	42.02	-45.89	29.47	-69.67	-13.00	56.67	266	295	Horizontal
4	3447.18	41.31	-45.82	29.42	-70.34	-13.00	57.34	183	2	Horizontal
5	5170.77	40.37	-44.19	32.60	-66.48	-13.00	53.48	241	0	Horizontal
6	6894.36	40.23	-42.44	35.99	-61.48	-13.00	48.48	185	127	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	35.91	-25.24	25.57	-59.02	-13.00	46.02	249	158	Vertical
2	2496.27	37.23	-23.89	27.89	-54.03	-13.00	41.03	163	320	Vertical
3	3328.36	42.52	-45.89	29.47	-69.17	-13.00	56.17	287	357	Vertical
4	3447.18	42.46	-45.82	29.42	-69.19	-13.00	56.19	174	147	Vertical
5	5170.77	41.04	-44.19	32.60	-65.81	-13.00	52.81	165	81	Vertical
6	6894.36	40.56	-42.44	35.99	-61.15	-13.00	48.15	157	0	Vertical

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Test Band = UL CA_4A_5A_ TM1_Ant11+Ant31
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2704.5	38.15	-23.84	28.60	-52.36	-13.00	39.36	188	241	Horizontal
2	9597	37.58	-38.10	38.54	-57.24	-13.00	44.24	294	0	Horizontal
3	13582.5	34.14	-34.57	39.95	-55.74	-13.00	42.74	270	211	Horizontal
4	3472.18	42.33	-45.76	29.41	-69.28	-13.00	56.28	162	194	Horizontal
5	5208.27	40.39	-44.14	32.60	-66.41	-13.00	53.41	234	46	Horizontal
6	6944.36	39.00	-42.50	36.09	-62.67	-13.00	49.67	185	161	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9537	37.32	-38.13	38.55	-57.53	-13.00	44.53	257	242	Vertical
2	12719.25	34.48	-35.11	39.32	-56.57	-13.00	43.57	196	0	Vertical
3	2518.77	37.01	-23.91	27.96	-54.19	-13.00	41.19	237	257	Vertical
4	3472.18	45.98	-45.76	29.41	-65.63	-13.00	52.63	124	95	Vertical
5	5208.27	40.70	-44.14	32.60	-66.10	-13.00	53.10	185	179	Vertical
6	6944.36	38.94	-42.50	36.09	-62.73	-13.00	49.73	164	0	Vertical

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Test Band = UL CA_4A_7A_ TM1_Ant11+Ant31
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	42.70	-45.88	29.43	-69.01	-25.00	44.01	174	89	Horizontal
2	5002.18	39.36	-44.92	32.60	-68.22	-25.00	43.22	288	0	Horizontal
3	5133.27	43.20	-44.24	32.60	-63.70	-25.00	38.70	196	150	Horizontal
4	6844.36	39.16	-42.50	35.89	-62.71	-25.00	37.71	234	253	Horizontal
5	7503.27	39.16	-41.59	36.51	-61.18	-25.00	36.18	123	12	Horizontal
6	10004.36	33.80	-37.13	38.50	-60.09	-25.00	35.09	210	170	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	43.12	-45.88	29.43	-68.59	-25.00	43.59	248	74	Vertical
2	5002.18	40.25	-44.92	32.60	-67.33	-25.00	42.33	194	261	Vertical
3	5133.27	42.87	-44.24	32.60	-64.03	-25.00	39.03	186	95	Vertical
4	6844.36	39.65	-42.50	35.89	-62.22	-25.00	37.22	203	321	Vertical
5	7503.27	38.02	-41.59	36.51	-62.32	-25.00	37.32	286	5	Vertical
6	10004.36	34.56	-37.13	38.50	-59.33	-25.00	34.33	211	237	Vertical

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Test Band = UL CA_4A_7A_ TM1_Ant11+Ant31
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	43.58	-45.82	29.42	-68.08	-25.00	43.08	154	215	Horizontal
2	5052.18	41.46	-44.60	32.60	-65.80	-25.00	40.80	216	133	Horizontal
3	5170.77	43.55	-44.19	32.60	-63.30	-25.00	38.30	234	196	Horizontal
4	6894.36	39.30	-42.44	35.99	-62.41	-25.00	37.41	189	174	Horizontal
5	7578.27	37.80	-41.33	36.66	-62.14	-25.00	37.14	276	258	Horizontal
6	10104.36	34.09	-36.80	38.61	-59.35	-25.00	34.35	315	133	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	42.48	-45.82	29.42	-69.18	-25.00	44.18	259	277	Vertical
2	5052.18	40.79	-44.60	32.60	-66.47	-25.00	41.47	271	357	Vertical
3	5170.77	44.19	-44.19	32.60	-62.66	-25.00	37.66	163	173	Vertical
4	6894.36	39.86	-42.44	35.99	-61.85	-25.00	36.85	231	277	Vertical
5	7578.27	37.88	-41.33	36.66	-62.06	-25.00	37.06	288	194	Vertical
6	10104.36	34.53	-36.80	38.61	-58.91	-25.00	33.91	179	25	Vertical

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Test Band = UL CA_4A_7A_ TM1_Ant11+Ant31
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	44.20	-45.76	29.41	-67.41	-25.00	42.41	249	280	Horizontal
2	5102.18	40.48	-44.29	32.60	-66.47	-25.00	41.47	178	357	Horizontal
3	5208.27	42.27	-44.14	32.60	-64.53	-25.00	39.53	234	199	Horizontal
4	6944.36	39.41	-42.50	36.09	-62.26	-25.00	37.26	145	221	Horizontal
5	7653.27	37.36	-41.30	36.81	-62.39	-25.00	37.39	201	4	Horizontal
6	10204.36	34.68	-36.56	38.72	-58.42	-25.00	33.42	187	31	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	43.26	-45.76	29.41	-68.35	-25.00	43.35	201	157	Vertical
2	5102.18	40.52	-44.29	32.60	-66.43	-25.00	41.43	176	75	Vertical
3	5208.27	42.57	-44.14	32.60	-64.23	-25.00	39.23	132	0	Vertical
4	6944.36	39.81	-42.50	36.09	-61.86	-25.00	36.86	164	94	Vertical
5	7653.27	37.90	-41.30	36.81	-61.85	-25.00	36.85	287	157	Vertical
6	10204.36	35.04	-36.56	38.72	-58.06	-25.00	33.06	192	301	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.60	-0.001501	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	9.10	0.005253	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-1.10	-0.000635	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	2.70	0.001558	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	1.00	0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.90	-0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.50	0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	3.30	0.001905	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.50	0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.40	0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	3.80	0.002193	PASS

---End of Attachment---

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