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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data for

SEWM2305000178RG01

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	18.14	21.37	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	18.62	21.85	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	18.14	21.37	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	17.55	20.78	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	18.19	21.42	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	18.61	21.84	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	18.09	21.32	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	17.54	20.77	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	18.19	21.42	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	18.65	21.88	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	18.05	21.28	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	17.50	20.73	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	17.60	20.83	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	17.55	20.78	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	17.56	20.79	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	16.59	19.82	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	17.60	20.83	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	17.58	20.81	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	17.61	20.84	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	16.53	19.76	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	17.60	20.83	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	17.57	20.80	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	17.56	20.79	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	16.55	19.78	30.00	PASS



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Band4	1.4MHz	64QAM	19957	1RB#0	16.63	19.86	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	16.51	19.74	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	16.65	19.88	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	15.76	18.99	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	16.59	19.82	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	16.62	19.85	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	16.63	19.86	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	15.75	18.98	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	16.59	19.82	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	16.56	19.79	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	16.70	19.93	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	15.73	18.96	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	18.19	21.42	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	18.62	21.85	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	18.06	21.29	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	17.54	20.77	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	18.25	21.48	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	18.71	21.94	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	18.06	21.29	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	17.52	20.75	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	18.15	21.38	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	18.59	21.82	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	18.05	21.28	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	17.51	20.74	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	17.61	20.84	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	17.47	20.70	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	17.55	20.78	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	16.55	19.78	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	17.60	20.83	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	17.53	20.76	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	17.59	20.82	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	16.52	19.75	30.00	PASS

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Band4	3MHz	16QAM	20385	1RB#8	17.53	20.76	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	17.65	20.88	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	16.57	19.80	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	16.65	19.88	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	16.58	19.81	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	16.71	19.94	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	15.77	19.00	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	16.63	19.86	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	16.58	19.81	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	16.63	19.86	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	15.72	18.95	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	16.60	19.83	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	16.50	19.73	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	16.65	19.88	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	15.81	19.04	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	18.22	21.45	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	18.60	21.83	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	18.04	21.27	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	17.56	20.79	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	18.20	21.43	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	18.65	21.88	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	18.04	21.27	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	17.60	20.83	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	18.22	21.45	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	18.69	21.92	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	18.06	21.29	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	17.59	20.82	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	17.57	20.80	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	17.51	20.74	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	17.59	20.82	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	16.49	19.72	30.00	PASS

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Band4	5MHz	16QAM	20175	1RB#0	17.64	20.87	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	17.59	20.82	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	17.61	20.84	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	16.55	19.78	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	17.69	20.92	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	17.55	20.78	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	17.61	20.84	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	16.53	19.76	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	16.72	19.95	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	16.57	19.80	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	16.63	19.86	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	15.85	19.08	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	16.66	19.89	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	16.60	19.83	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	16.58	19.81	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	15.82	19.05	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	16.65	19.88	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	16.50	19.73	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	16.69	19.92	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	15.85	19.08	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	18.15	21.38	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	18.70	21.93	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	18.03	21.26	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	17.54	20.77	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	18.15	21.38	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	18.68	21.91	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	18.13	21.36	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	17.53	20.76	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	18.24	21.47	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	18.66	21.89	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	18.02	21.25	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	17.59	20.82	30.00	PASS

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Band4	10MHz	16QAM	20000	1RB#24	17.45	20.68	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	17.55	20.78	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	16.60	19.83	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	17.61	20.84	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	17.46	20.69	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	17.63	20.86	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	16.59	19.82	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	17.67	20.90	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	17.85	21.08	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	18.02	21.25	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	16.99	20.22	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	16.97	20.20	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	16.88	20.11	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	16.99	20.22	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	16.13	19.36	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	16.97	20.20	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	16.88	20.11	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	16.99	20.22	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	16.14	19.37	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	17.05	20.28	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	16.99	20.22	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	17.03	20.26	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	16.20	19.43	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	18.52	21.75	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	19.02	22.25	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	18.40	21.63	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	17.89	21.12	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	18.60	21.83	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	19.10	22.33	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	18.40	21.63	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	17.52	20.75	30.00	PASS

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Band4	15MHz	QPSK	20325	1RB#0	18.18	21.41	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	18.66	21.89	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	18.00	21.23	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	17.52	20.75	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	17.58	20.81	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	17.51	20.74	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	17.61	20.84	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	16.59	19.82	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	17.66	20.89	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	17.56	20.79	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	17.61	20.84	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	16.54	19.77	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	17.63	20.86	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	17.52	20.75	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	17.60	20.83	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	16.57	19.80	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	16.63	19.86	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	16.55	19.78	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	16.59	19.82	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	15.78	19.01	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	17.00	20.23	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	16.89	20.12	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	17.08	20.31	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	16.21	19.44	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	17.05	20.28	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	16.97	20.20	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	17.01	20.24	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	16.14	19.37	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	18.61	21.84	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	19.01	22.24	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	18.51	21.74	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.99	21.22	30.00	PASS

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Band4	20MHz	QPSK	20175	1RB#0	18.51	21.74	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	18.97	22.20	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	18.41	21.64	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.92	21.15	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	18.53	21.76	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	18.97	22.20	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	18.51	21.74	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.98	21.21	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	18.08	21.31	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	17.97	21.20	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	17.90	21.13	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	16.94	20.17	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	18.02	21.25	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	17.84	21.07	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	17.93	21.16	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	16.98	20.21	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	18.02	21.25	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	17.85	21.08	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	17.97	21.20	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	16.90	20.13	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	17.02	20.25	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	16.94	20.17	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	16.95	20.18	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	16.20	19.43	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	17.07	20.30	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	16.94	20.17	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	16.69	19.92	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	15.79	19.02	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	16.70	19.93	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	16.52	19.75	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	16.64	19.87	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	15.82	19.05	30.00	PASS

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Effective (Isotropic) Radiated Power Output Data for

SEWM2309000392RG01

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	15MHz	QPSK	20025	1RB#0	18.37	21.6	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	18.8	22.03	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	18.23	21.46	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	17.78	21.01	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	18.43	21.66	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	18.95	22.18	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	18.17	21.4	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	17.34	20.57	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	18	21.23	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	18.53	21.76	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	17.8	21.03	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	17.3	20.53	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	17.44	20.67	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	17.32	20.55	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	17.49	20.72	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	16.43	19.66	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	17.5	20.73	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	17.36	20.59	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	17.39	20.62	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	16.33	19.56	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	17.4	20.63	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	17.4	20.63	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	17.44	20.67	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	16.41	19.64	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	16.43	19.66	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	16.33	19.56	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	16.48	19.71	30	PASS

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Band4	15MHz	64QAM	20025	75RB#0	15.63	18.86	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	16.86	20.09	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	16.78	20.01	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	16.96	20.19	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	16.03	19.26	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	16.86	20.09	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	16.8	20.03	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	16.89	20.12	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	15.93	19.16	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	18.38	21.61	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	18.84	22.07	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	18.35	21.58	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.78	21.01	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	18.28	21.51	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	18.84	22.07	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	18.24	21.47	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.71	20.94	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	18.32	21.55	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	18.74	21.97	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	18.38	21.61	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.75	20.98	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	17.92	21.15	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	17.8	21.03	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	17.75	20.98	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	16.81	20.04	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	17.8	21.03	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	17.61	20.84	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	17.75	20.98	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	16.82	20.05	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	17.87	21.1	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	17.68	20.91	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	17.74	20.97	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	16.73	19.96	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	16.83	20.06	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	16.72	19.95	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	16.74	19.97	30	PASS

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Band4	20MHz	64QAM	20050	100RB#0	15.99	19.22	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	16.93	20.16	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	16.74	19.97	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	16.49	19.72	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	15.57	18.8	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	16.48	19.71	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	16.3	19.53	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	16.44	19.67	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	15.62	18.85	30	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.24	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.54	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.34	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.06	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.36	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.18	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.36	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.60	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.50	13	PASS



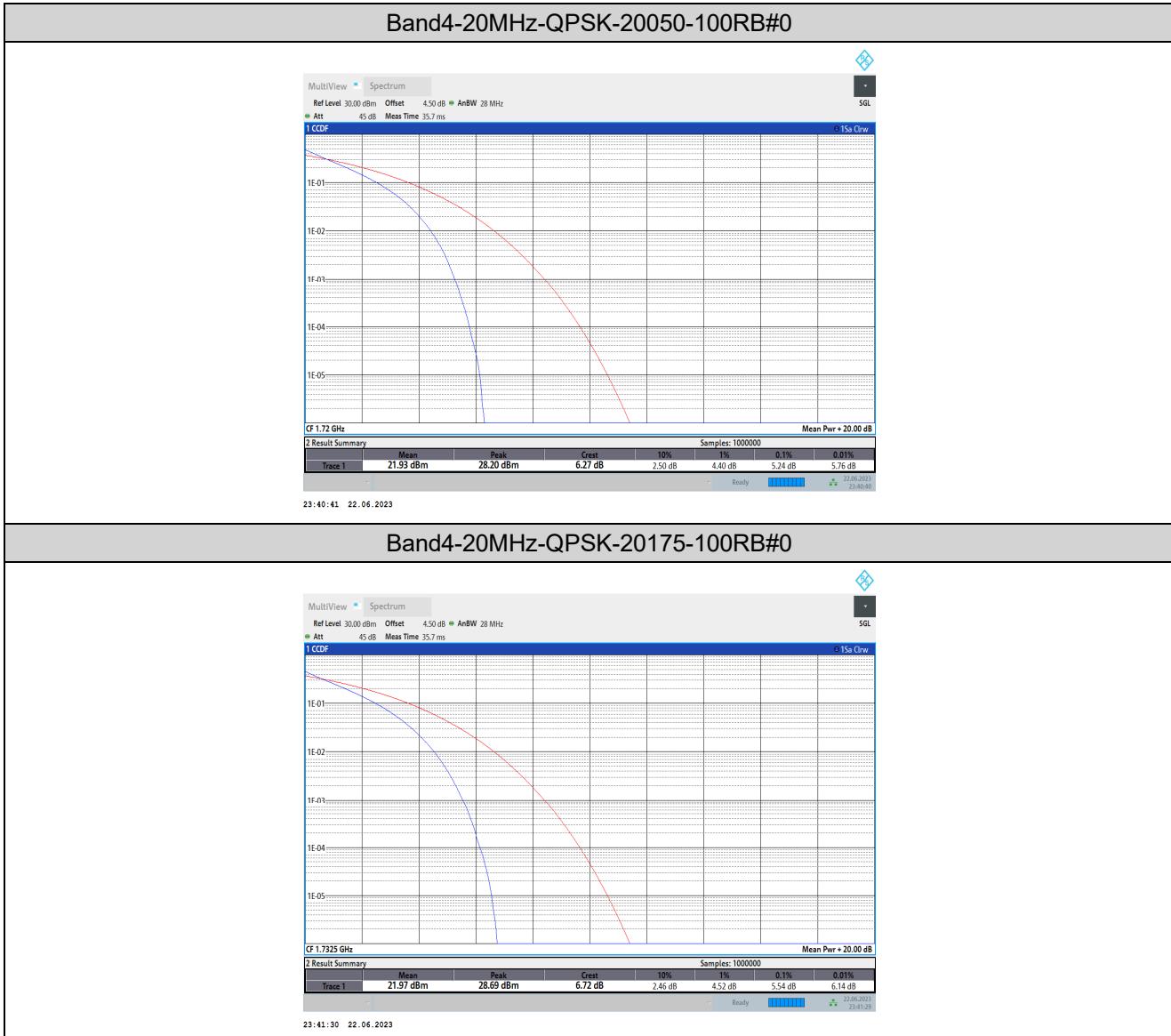
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Test Graphs

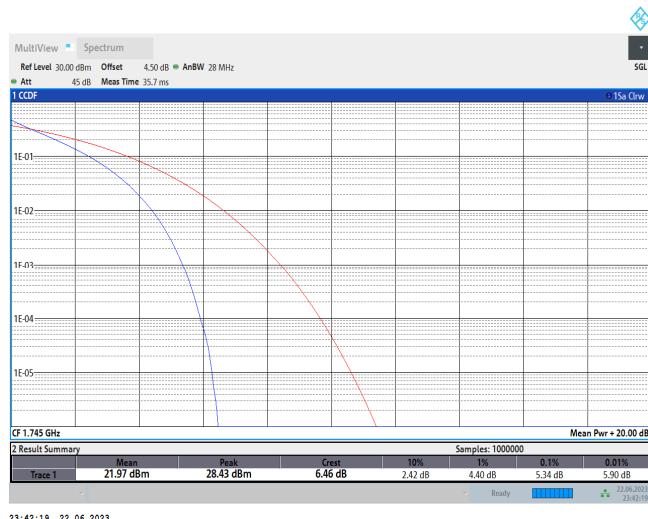


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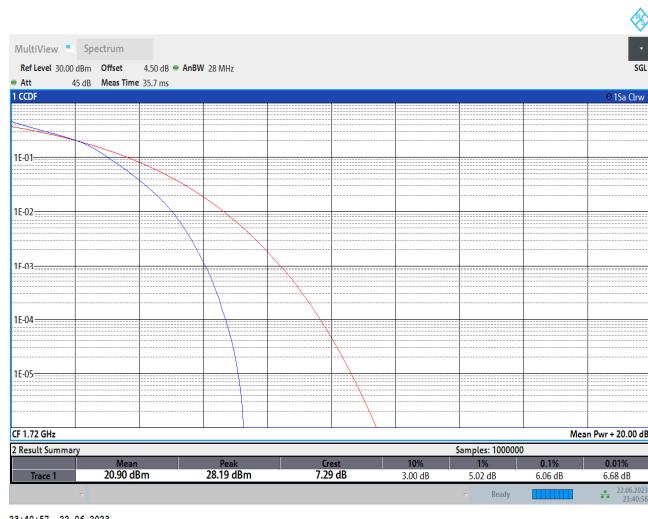


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Band4-20MHz-QPSK-20300-100RB#0



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



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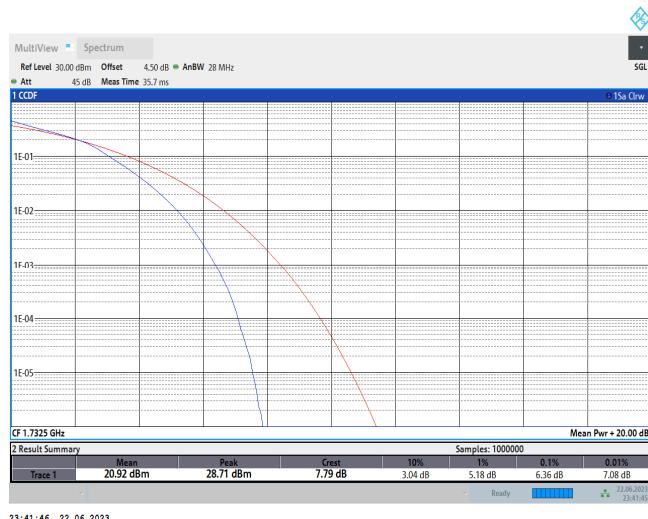
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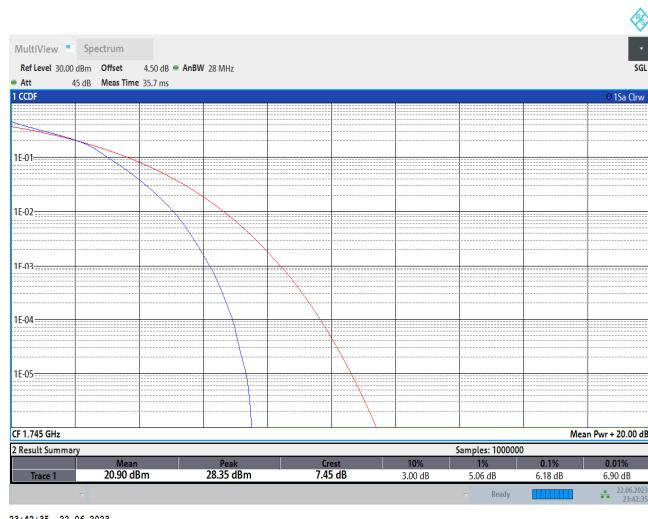
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Band4-20MHz-16QAM-20175-100RB#0



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



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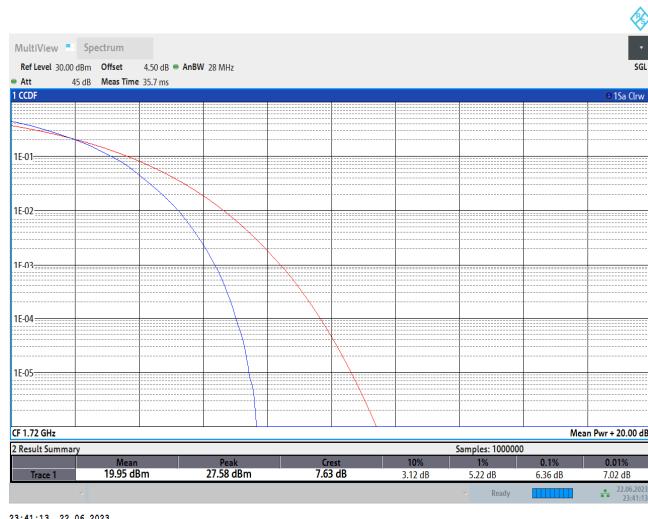
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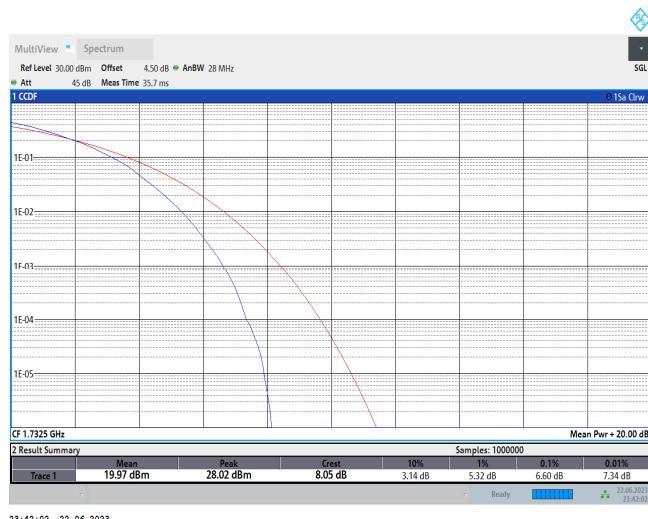
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Band4-20MHz-64QAM-20050-100RB#0



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



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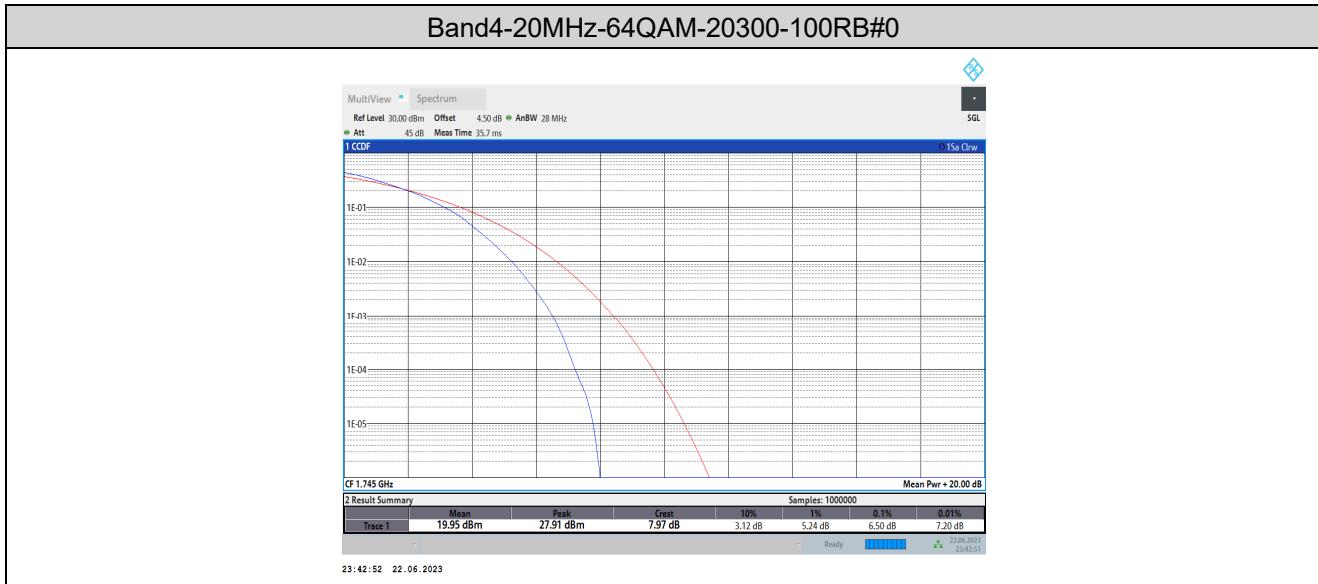


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.094	1.27	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.086	1.25	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.080	1.25	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.089	1.28	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.086	1.27	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.083	1.25	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.087	1.24	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.089	1.27	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.085	1.25	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.688	2.83	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.683	2.87	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.674	2.86	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.686	2.90	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.681	2.86	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.690	2.89	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.683	2.87	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.675	2.88	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.685	2.89	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.468	4.80	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.76	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.472	4.81	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.478	4.75	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.461	4.89	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.460	4.76	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.459	4.81	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.468	4.77	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.475	4.82	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.926	9.34	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.917	9.42	PASS

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Band4	10MHz	QPSK	20350	50RB#0	8.911	9.36	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.928	9.38	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.938	9.54	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.923	9.42	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.950	9.60	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.914	9.36	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.951	9.34	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.469	14.67	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.484	14.40	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.490	14.28	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.430	14.52	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.434	14.46	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.402	14.37	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.437	14.37	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.488	14.61	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.418	14.46	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.879	18.76	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.905	18.76	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.861	19.04	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.828	18.96	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.913	19.32	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.854	18.88	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.912	18.76	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.880	18.84	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.819	18.76	PASS

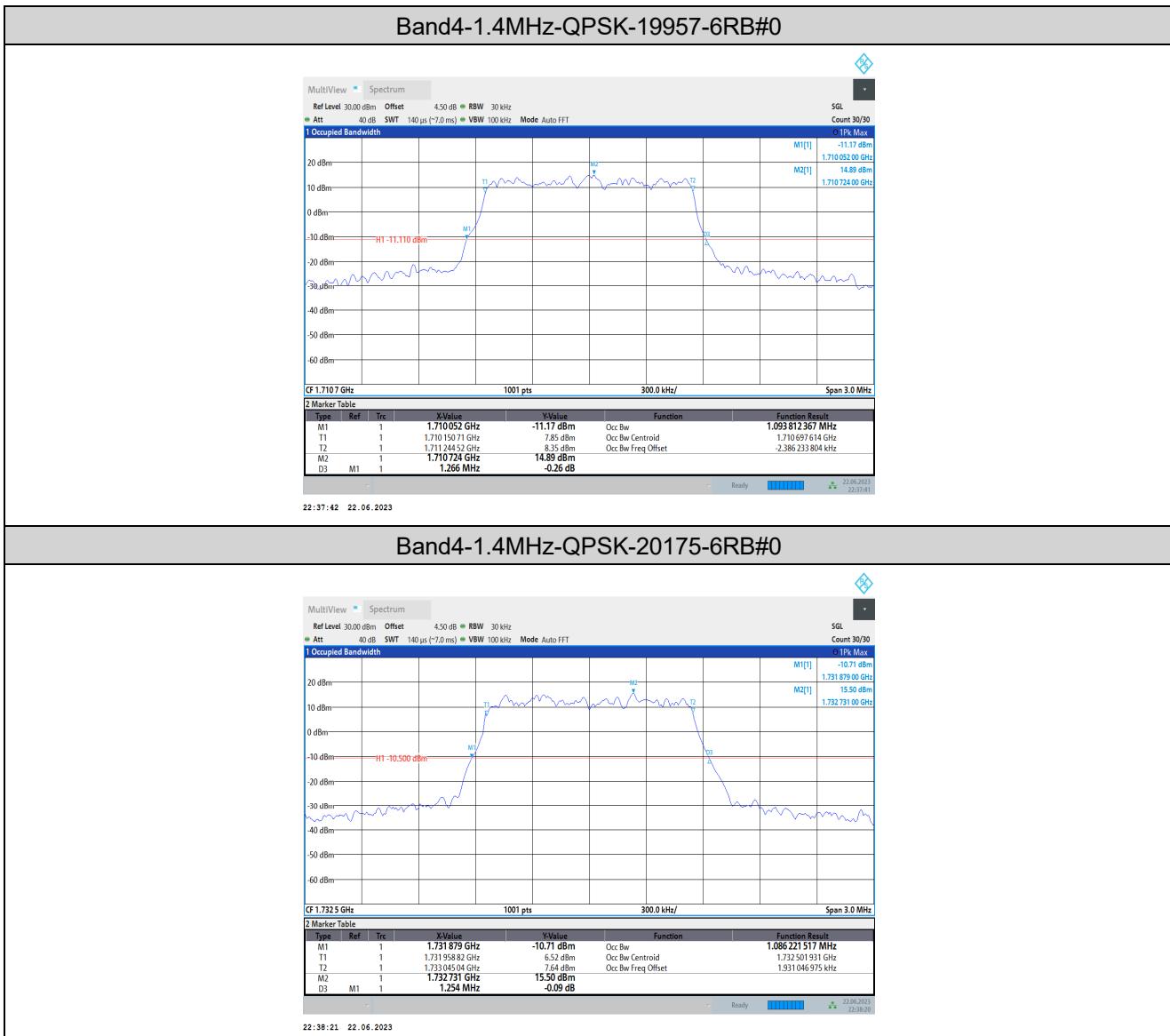
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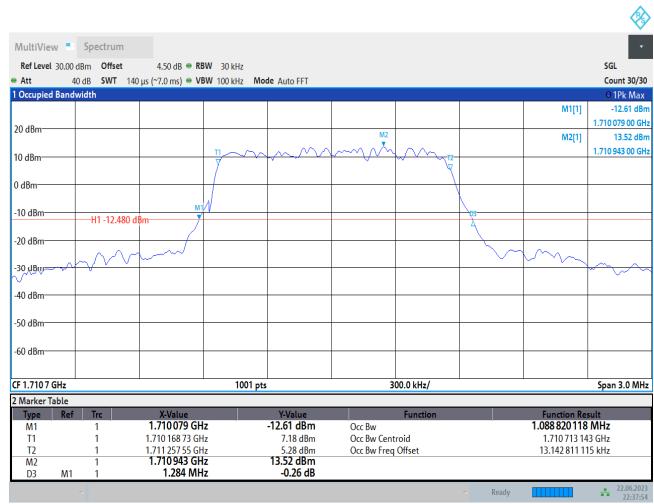
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Band4-1.4MHz-QPSK-20393-6RB#0



22:39:00 22.06.2023

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



22:37:55 22.06.2023

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



22:38:34 22.06.2023

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



22:39:13 22.06.2023

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22:38:08 22.06.2023

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



22:38:47 22.06.2023

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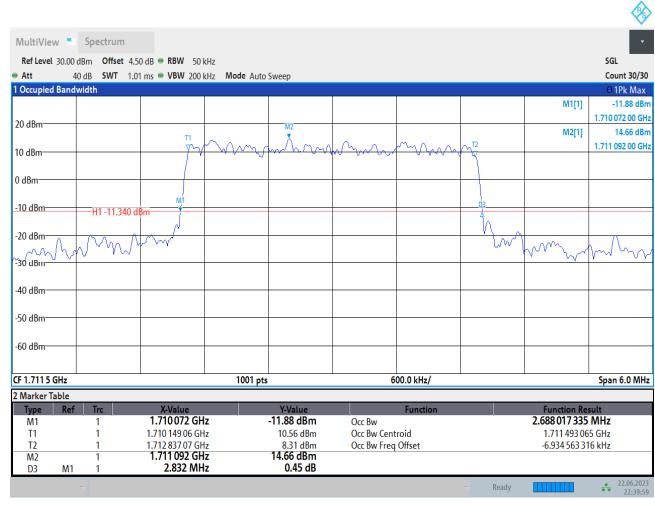
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22:39:26 22.06.2023

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



22:40:00 22.06.2023

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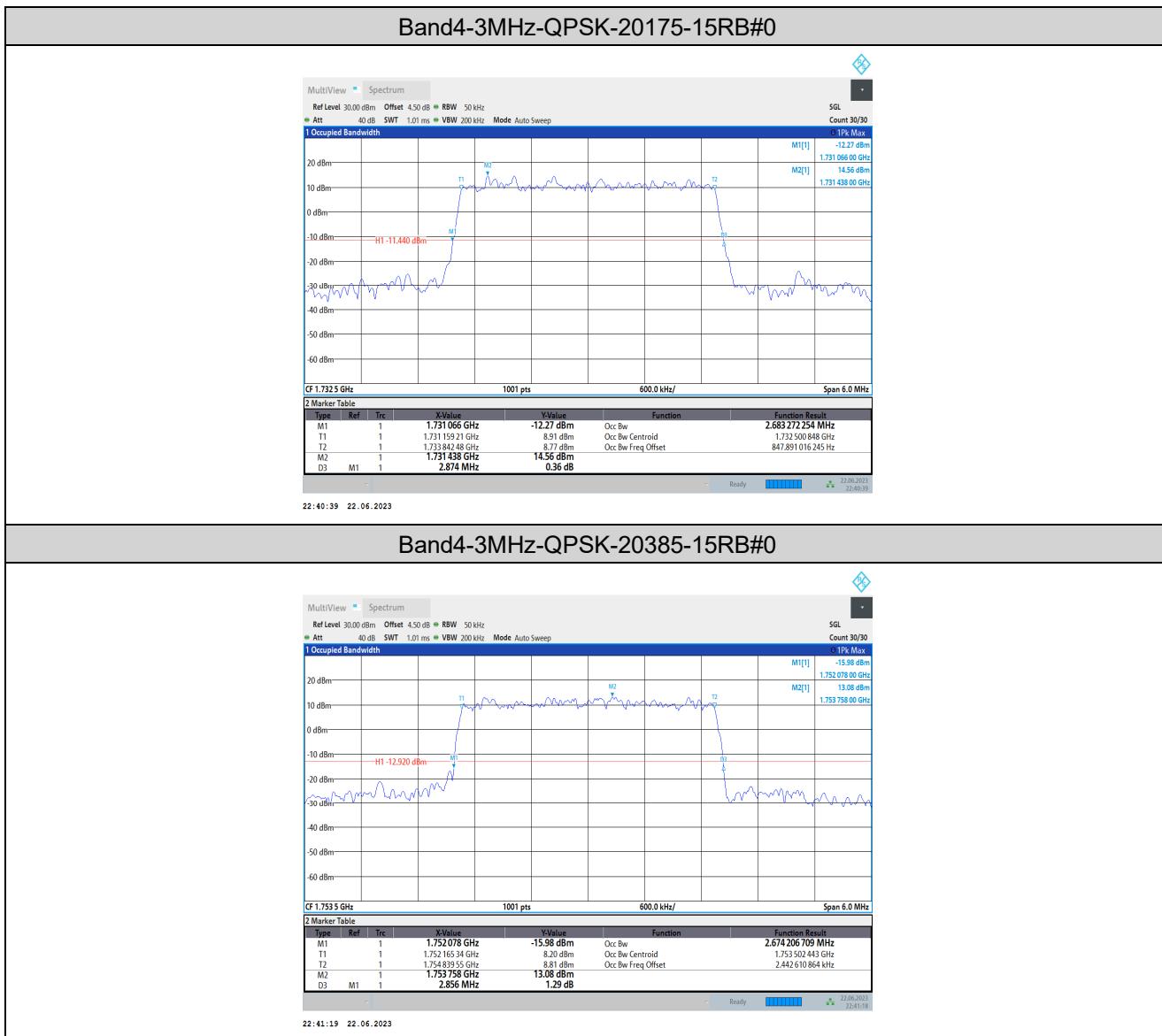


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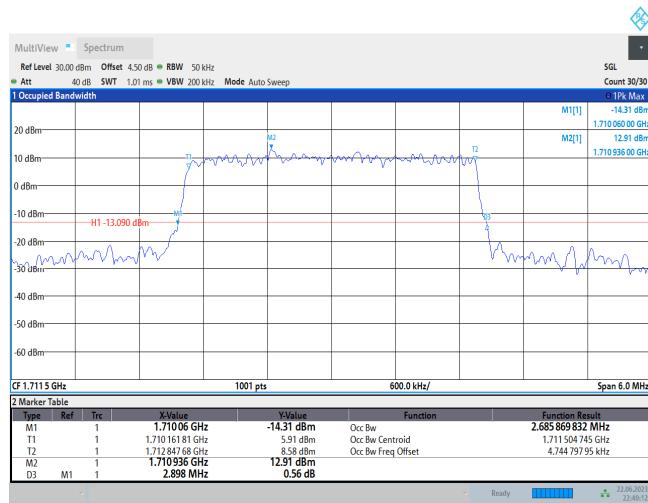
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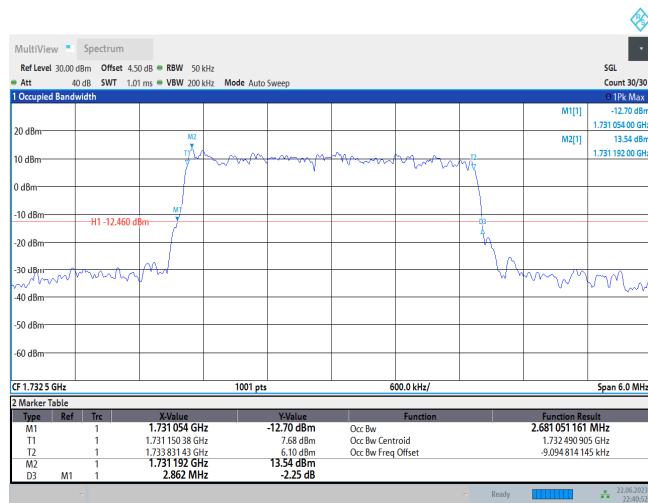
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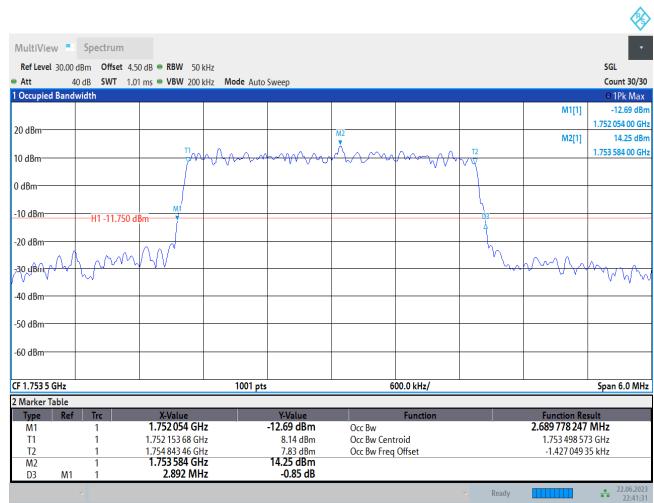
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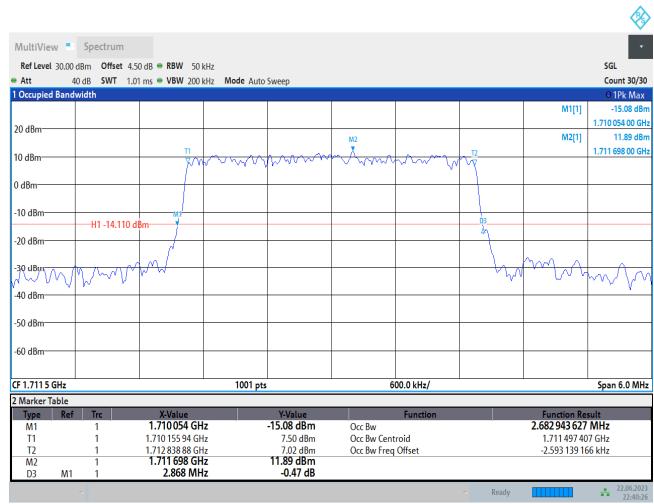
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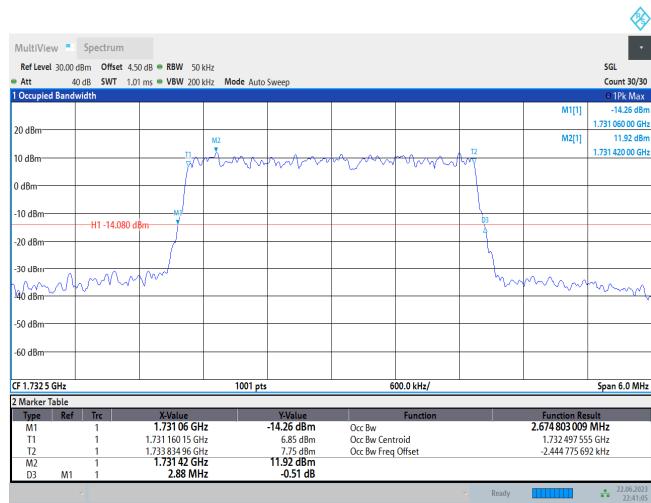
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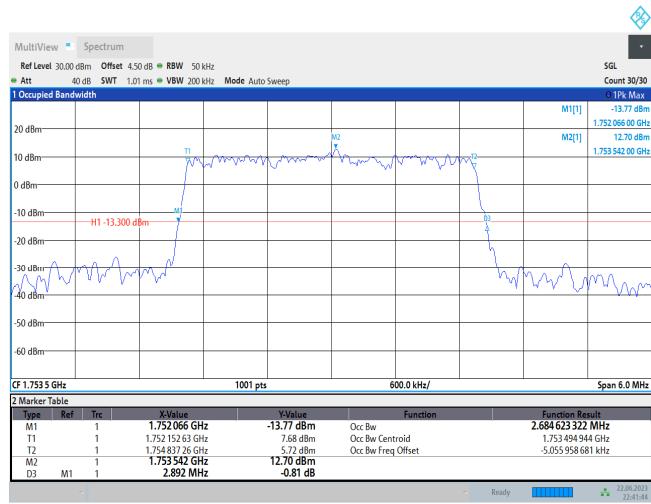
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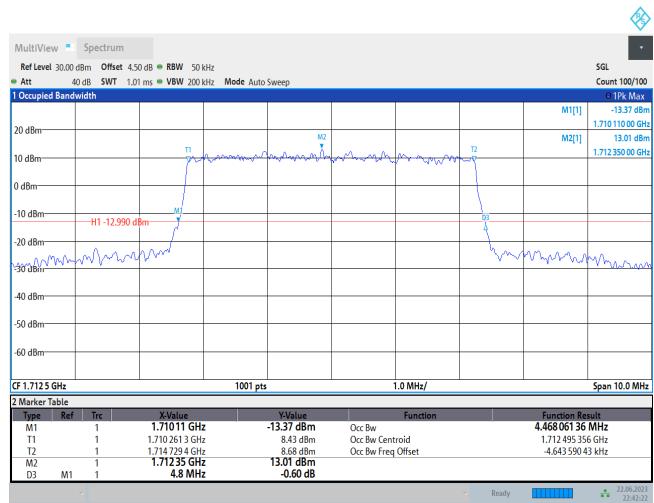


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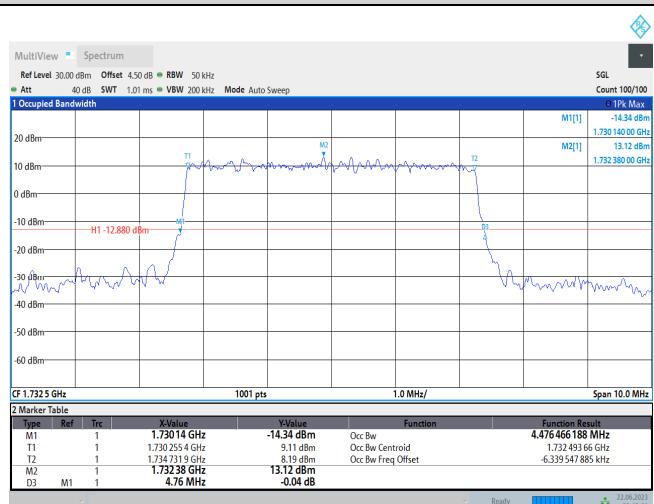
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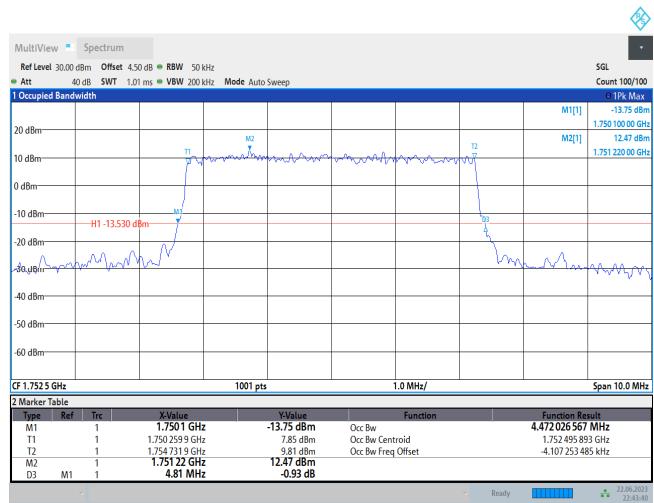
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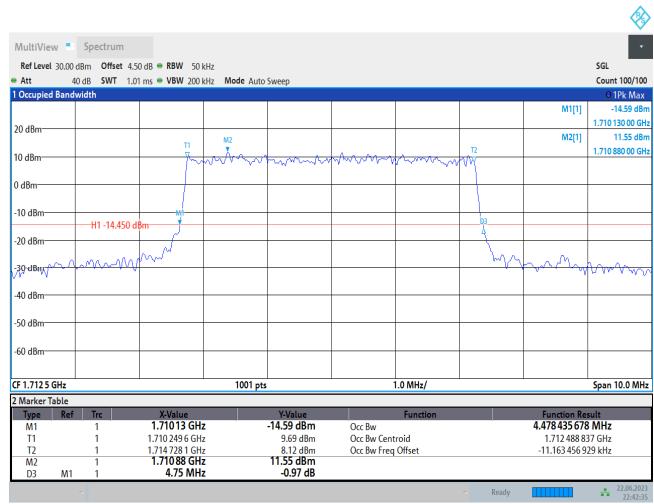
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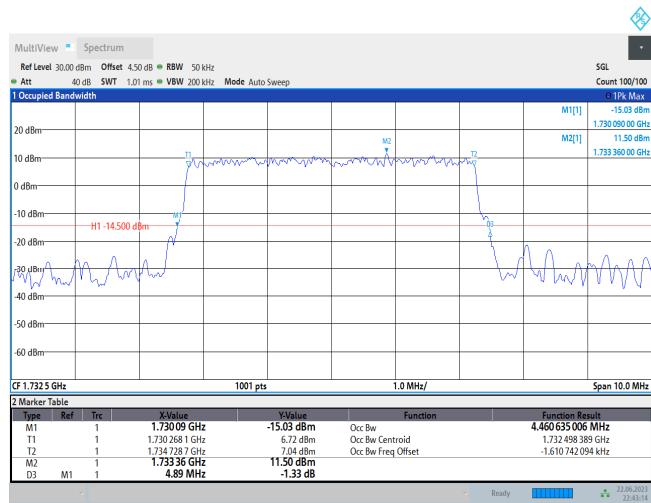
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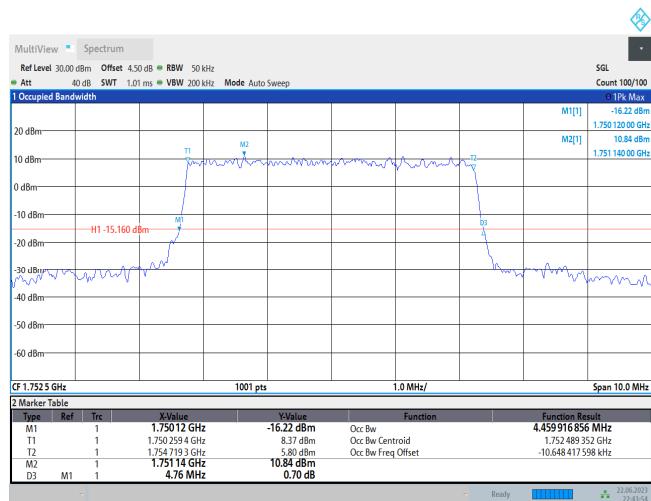
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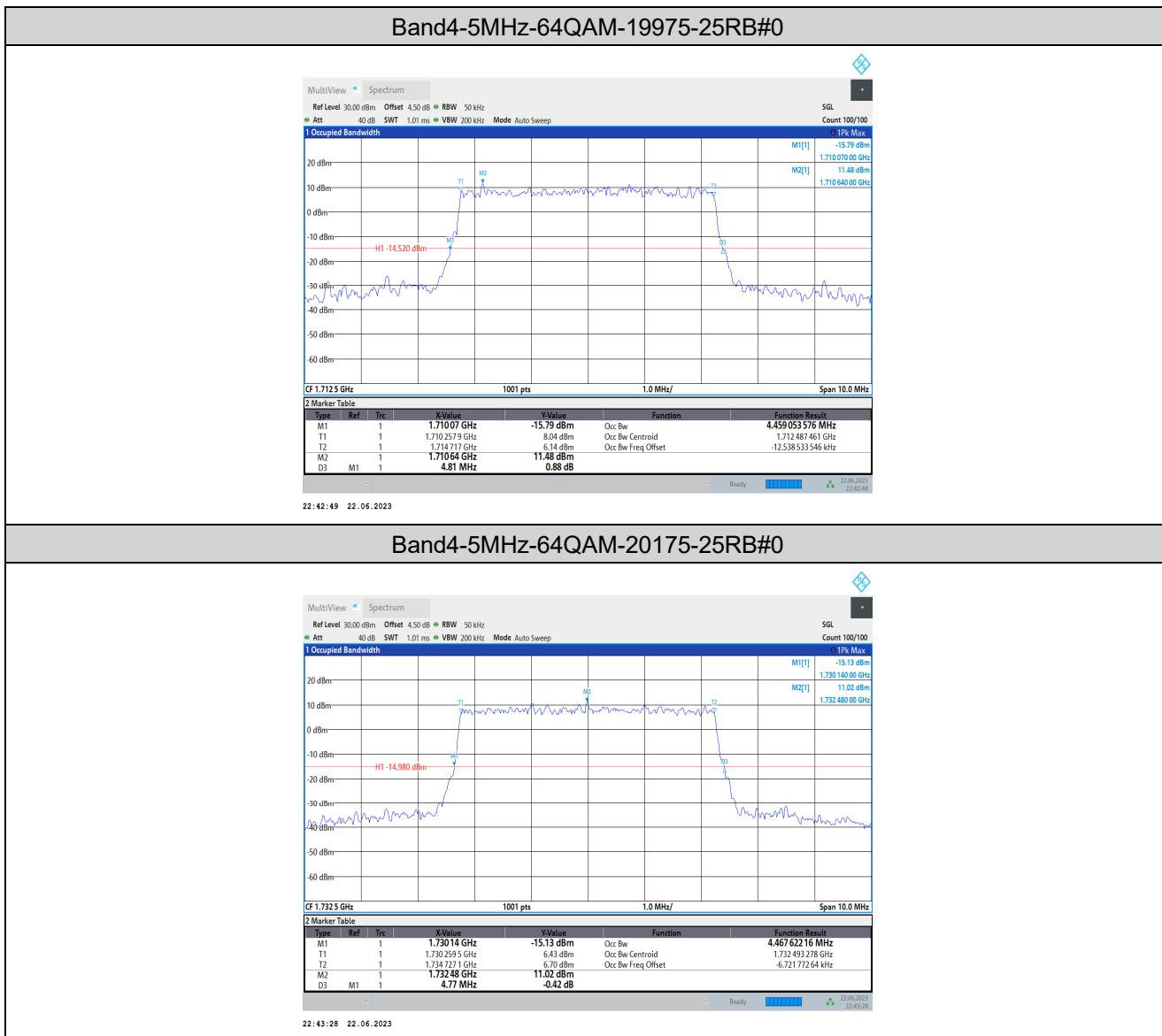


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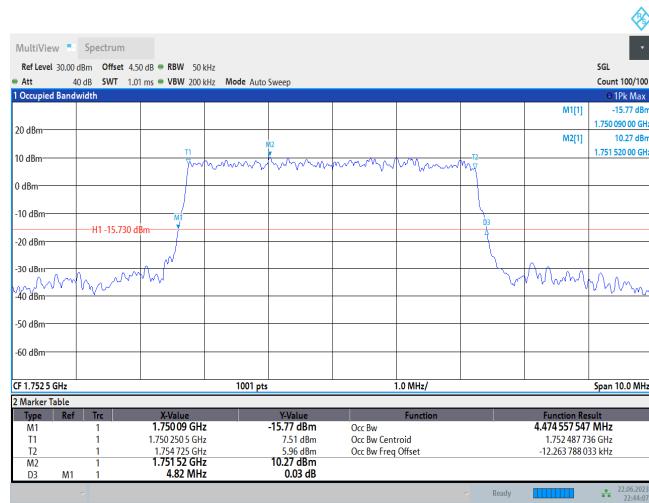
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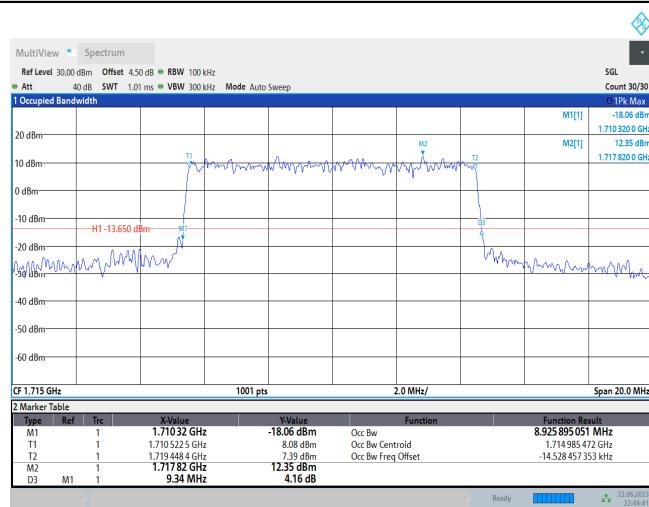
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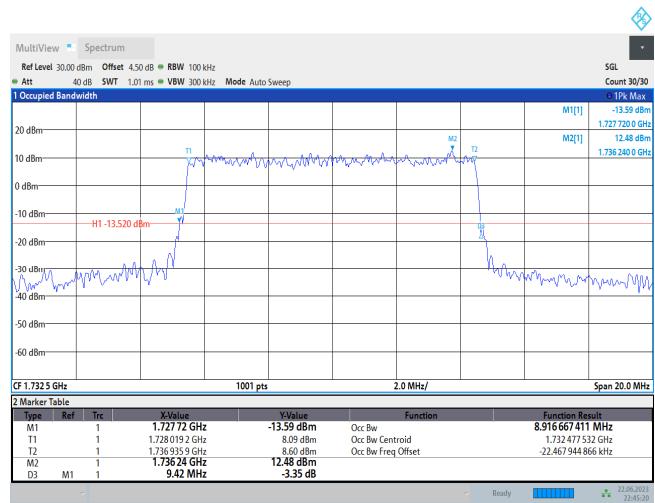


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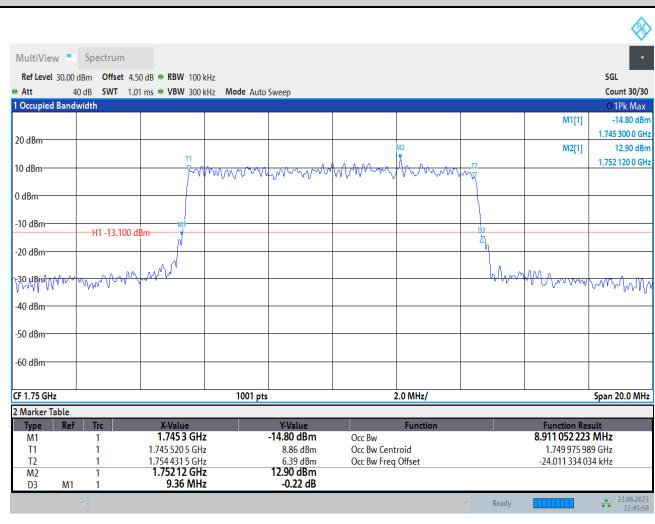
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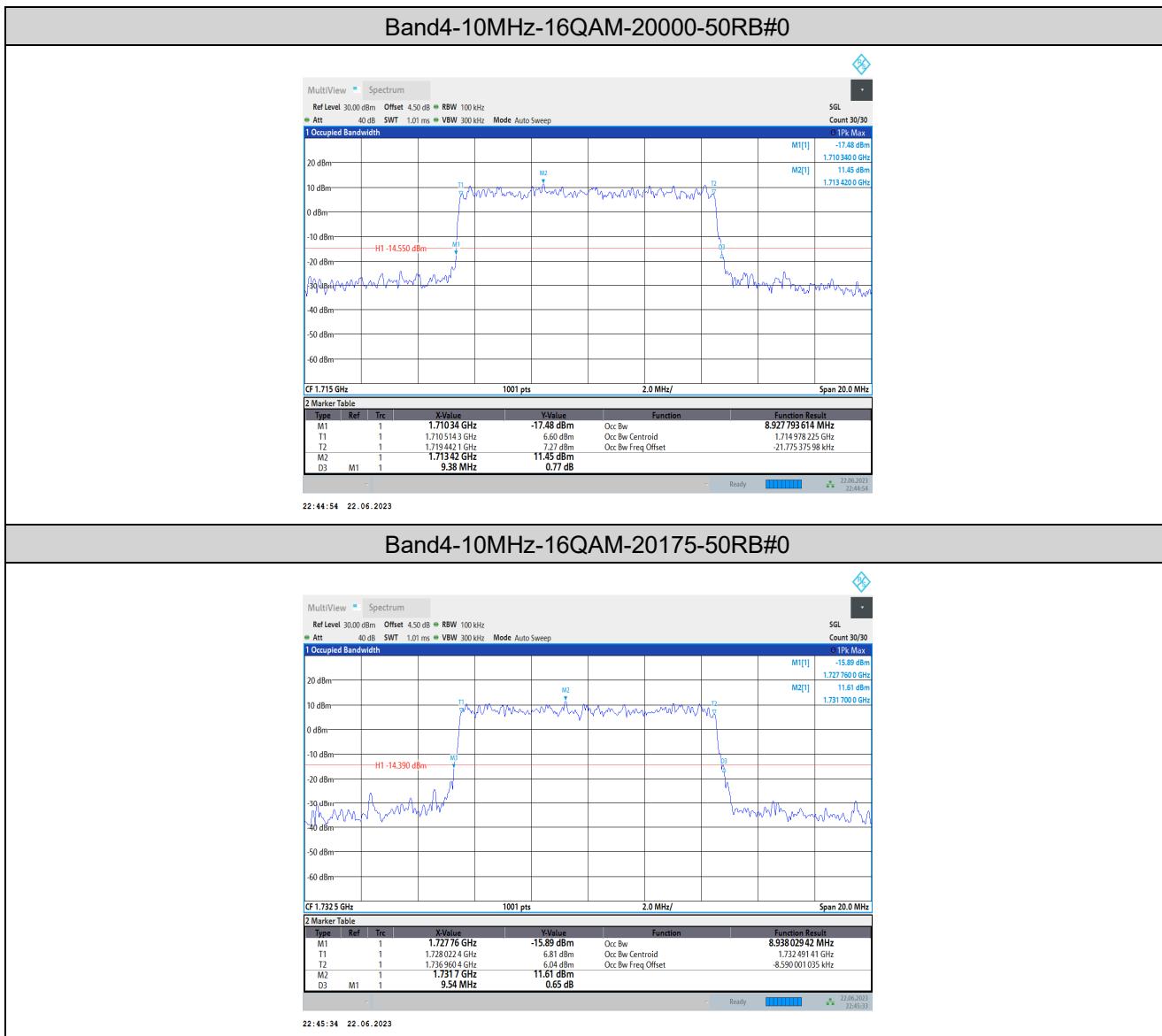
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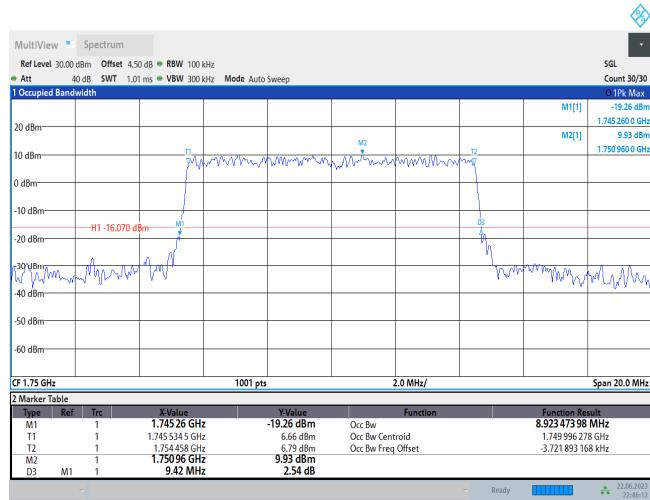


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Band4-10MHz-16QAM-20350-50RB#0



22:46:13 22.06.2023

Band4-10MHz-64QAM-20000-50RB#0



22:45:07 22.06.2023

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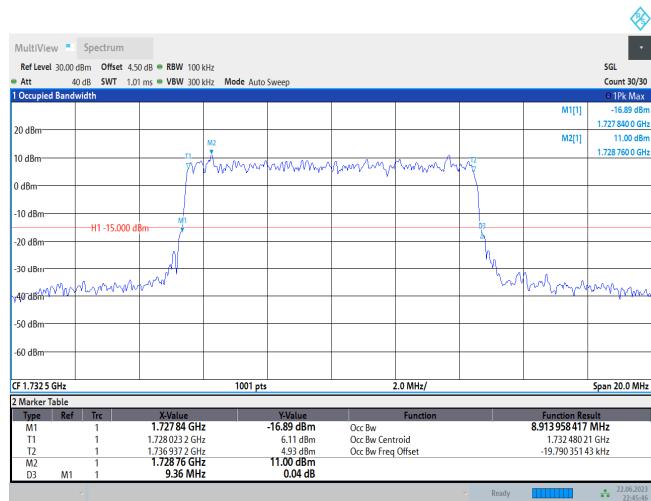


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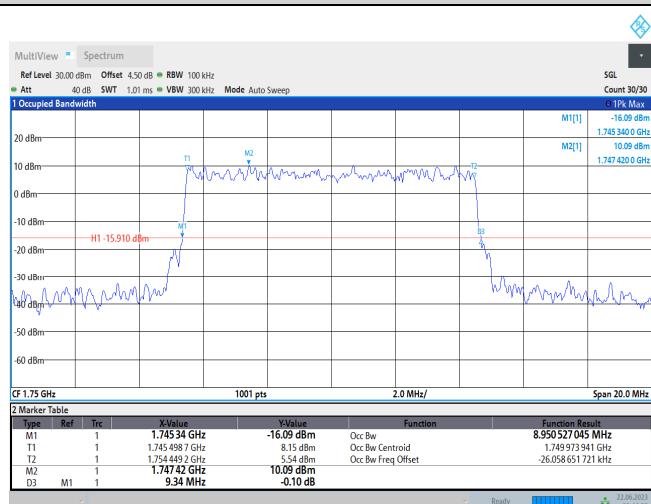
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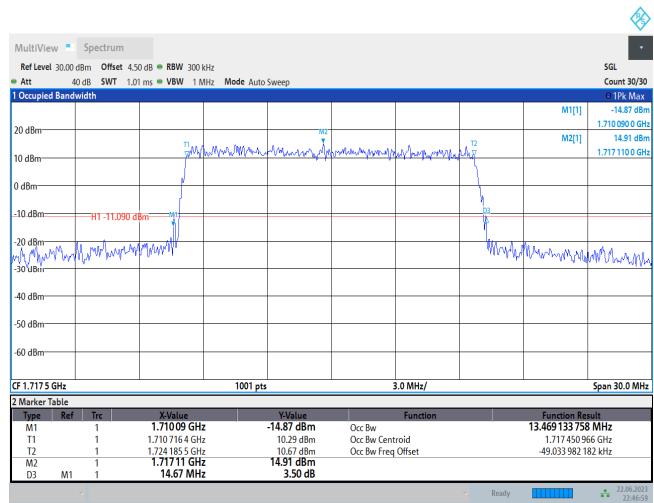
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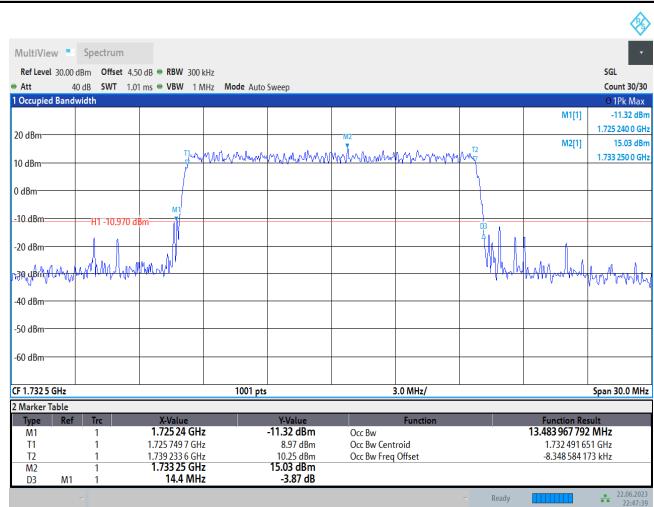
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Band4-15MHz-QPSK-20025-75RB#0



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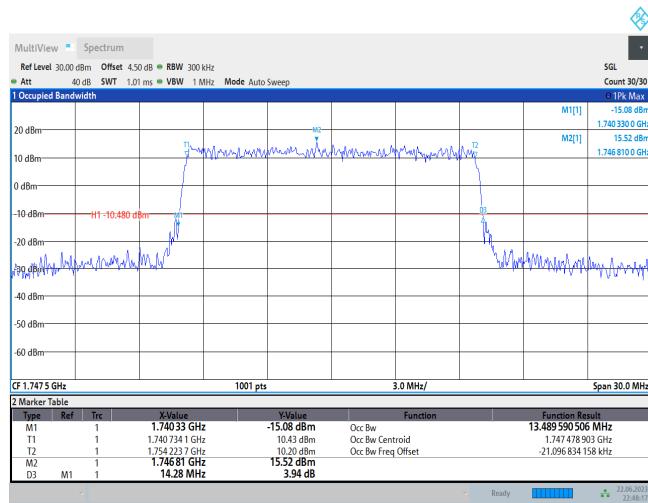
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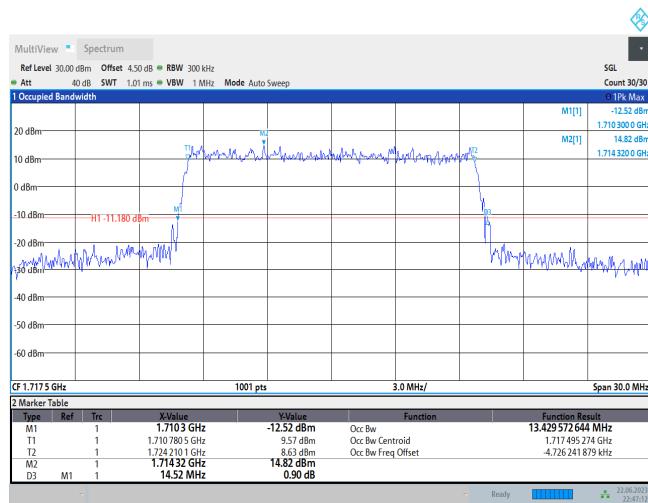
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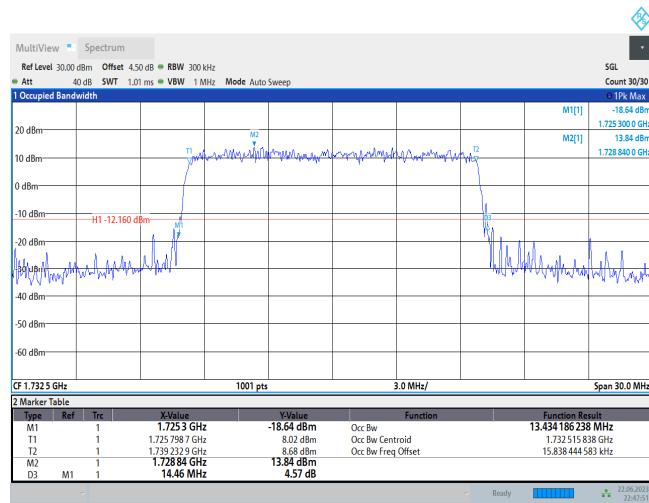
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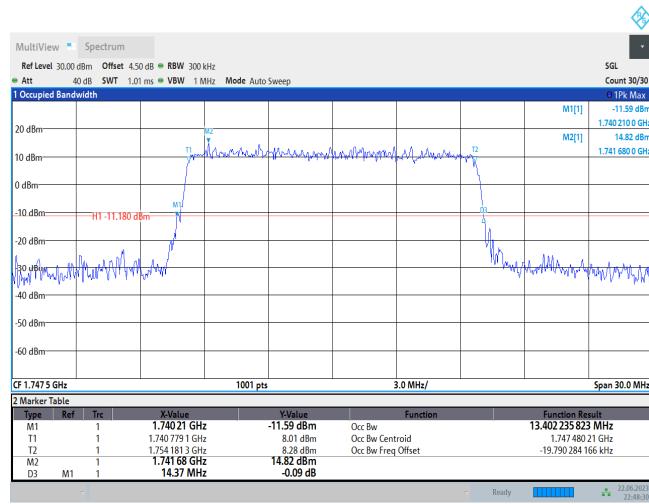
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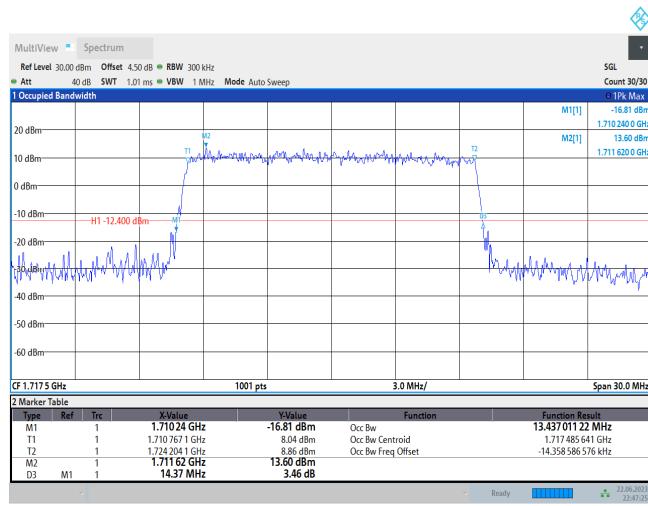
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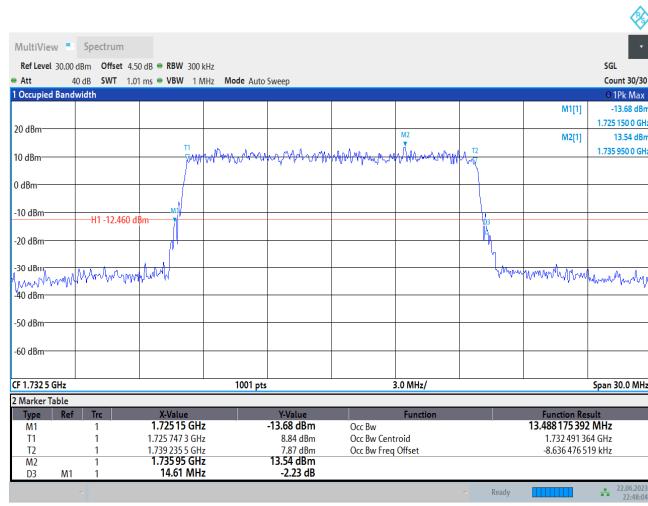
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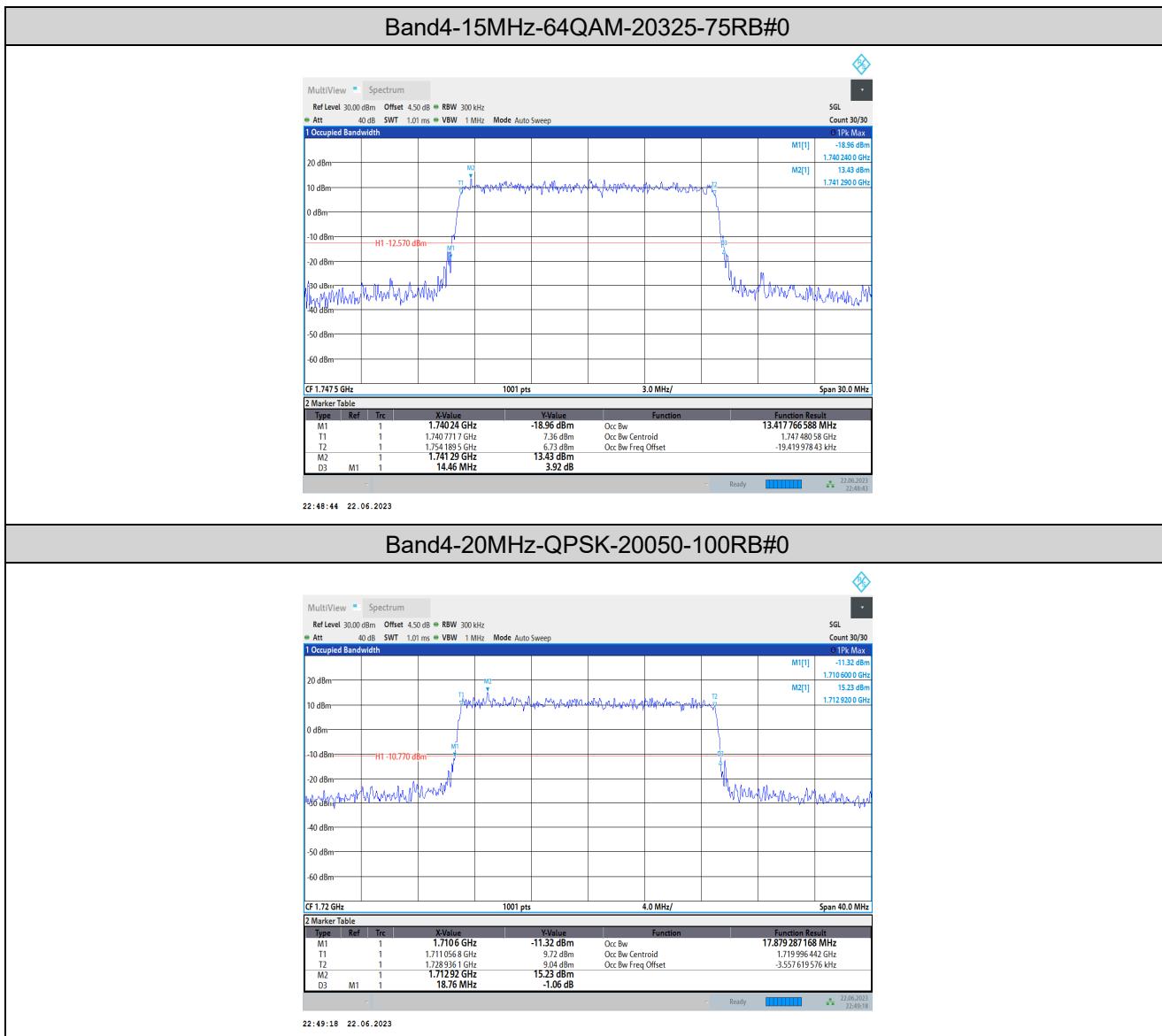


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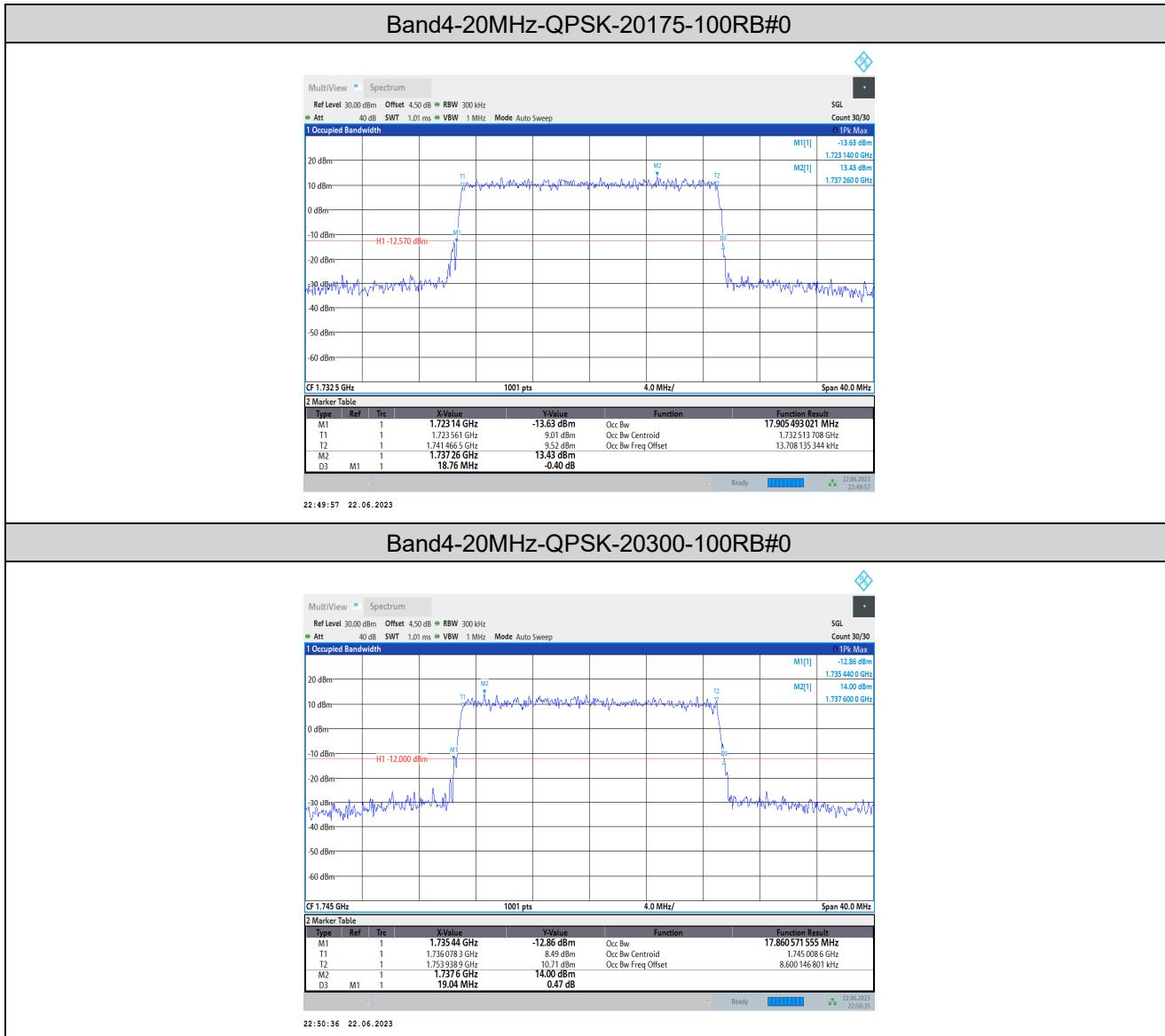


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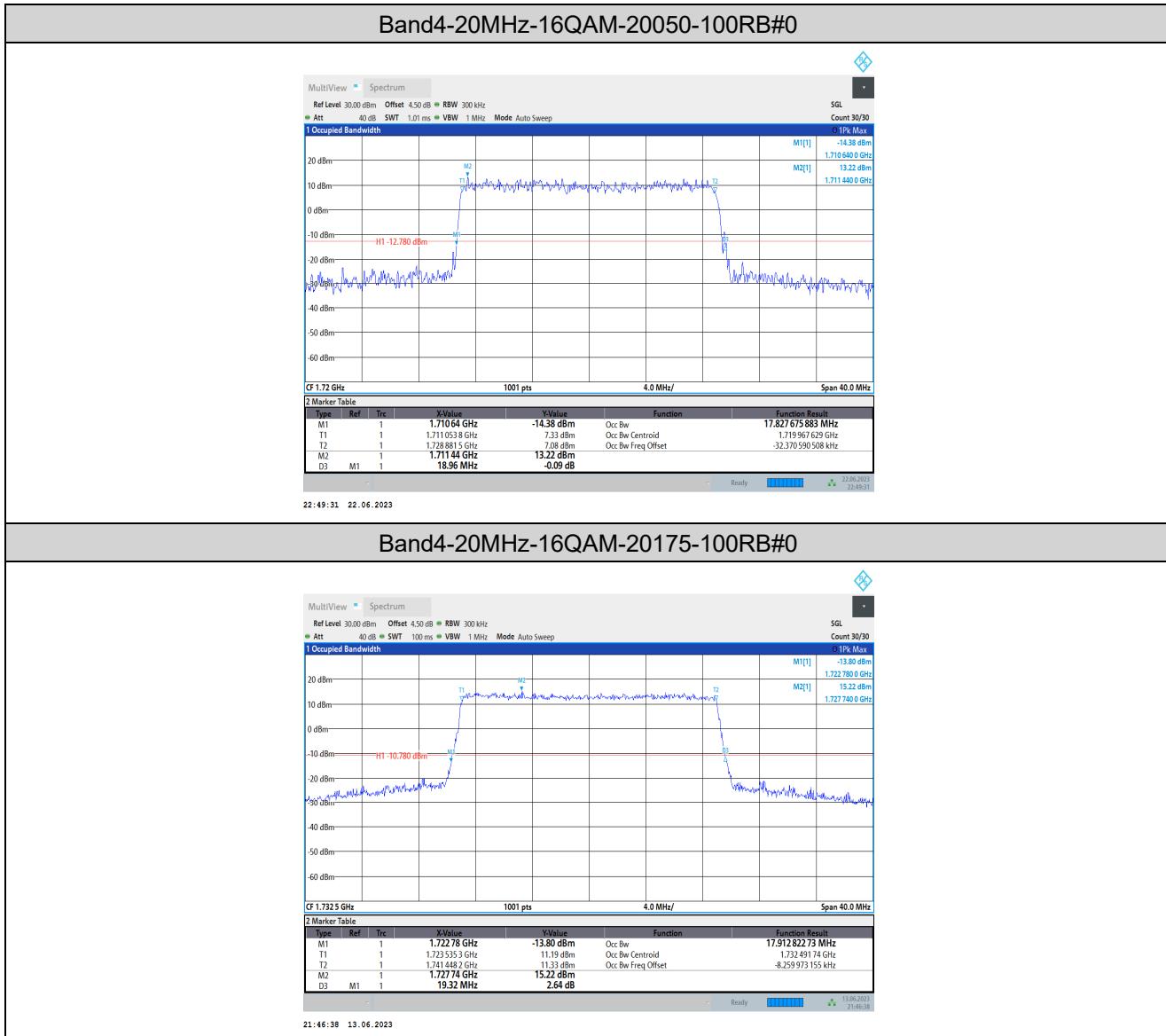


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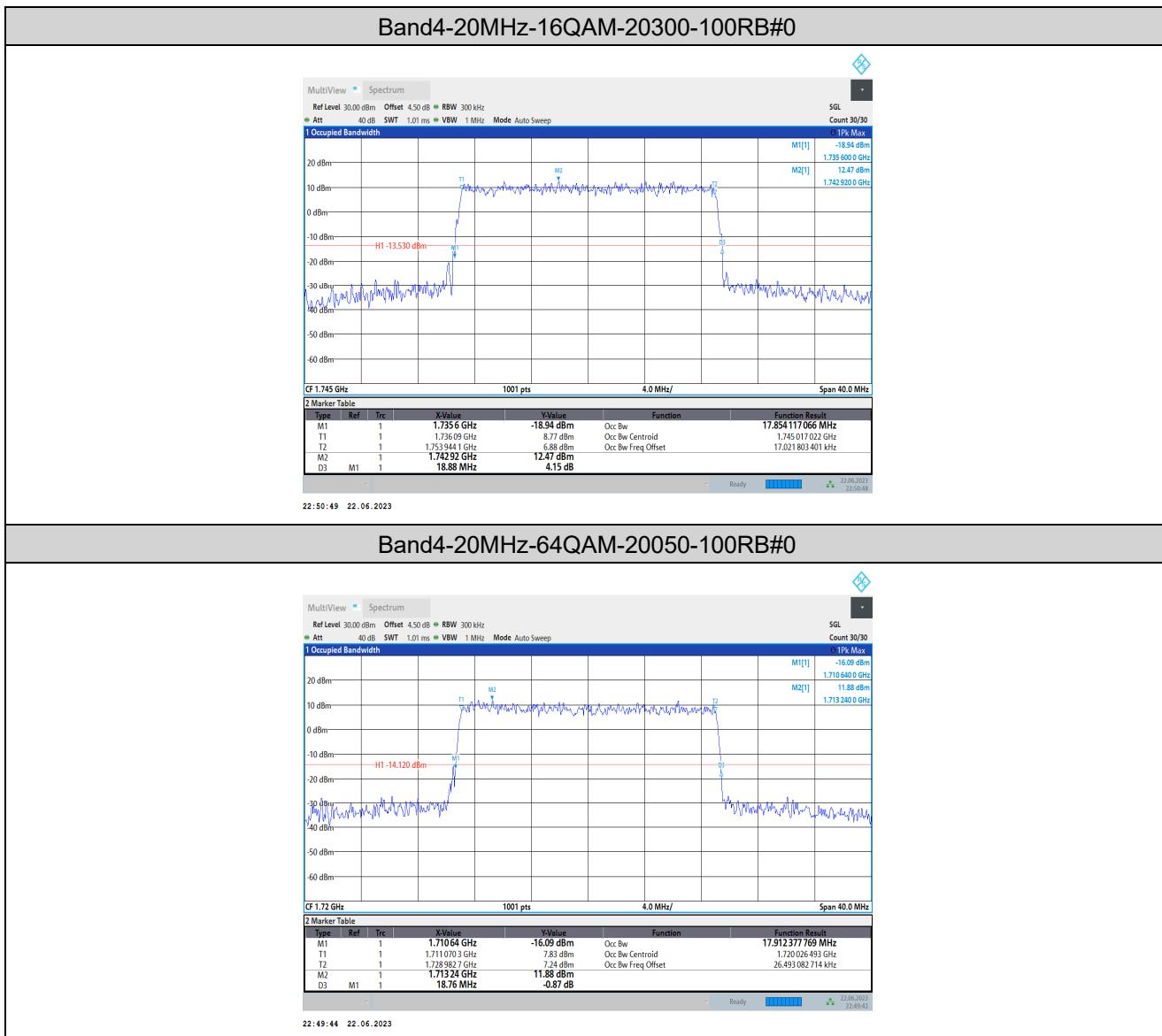


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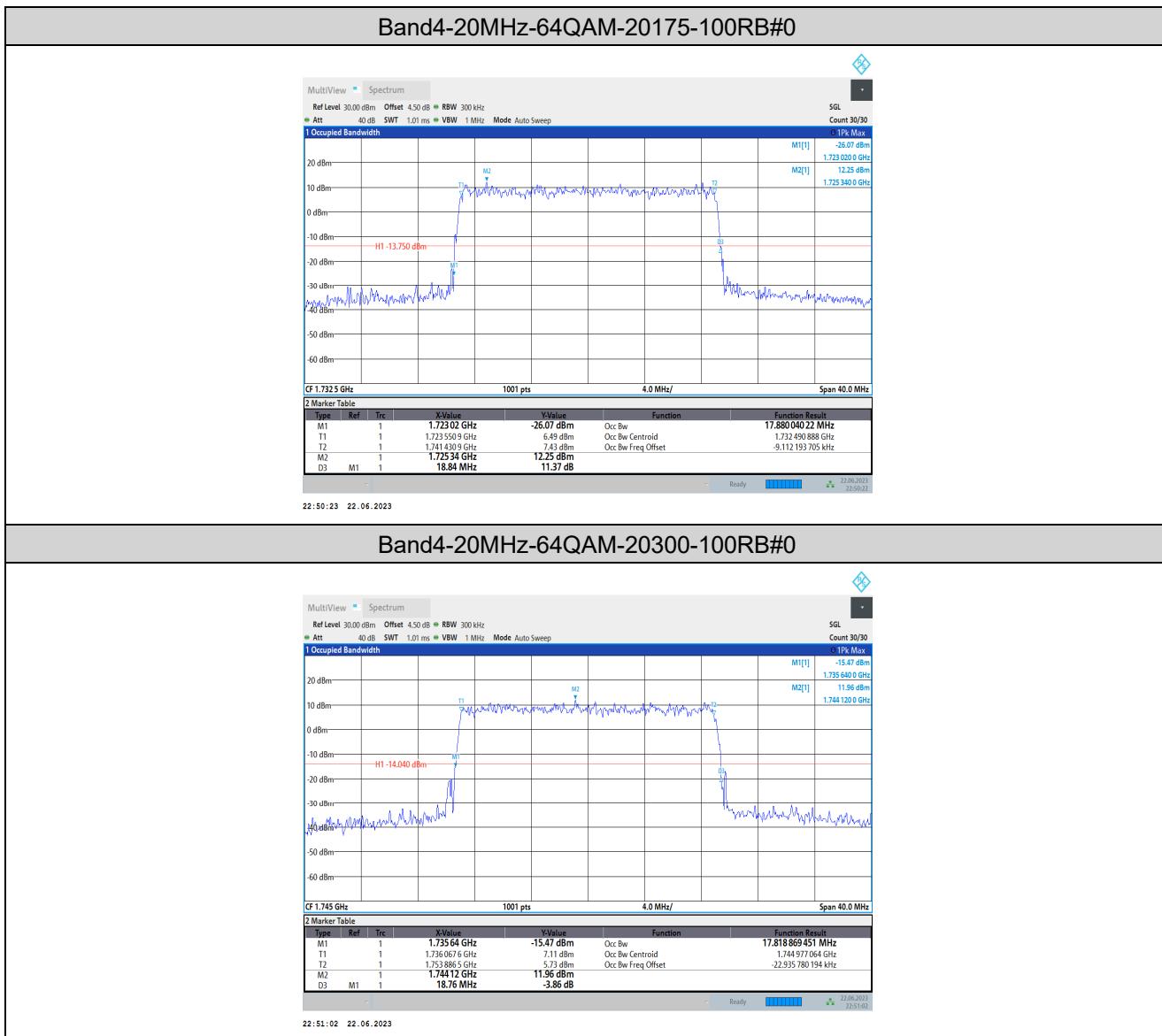


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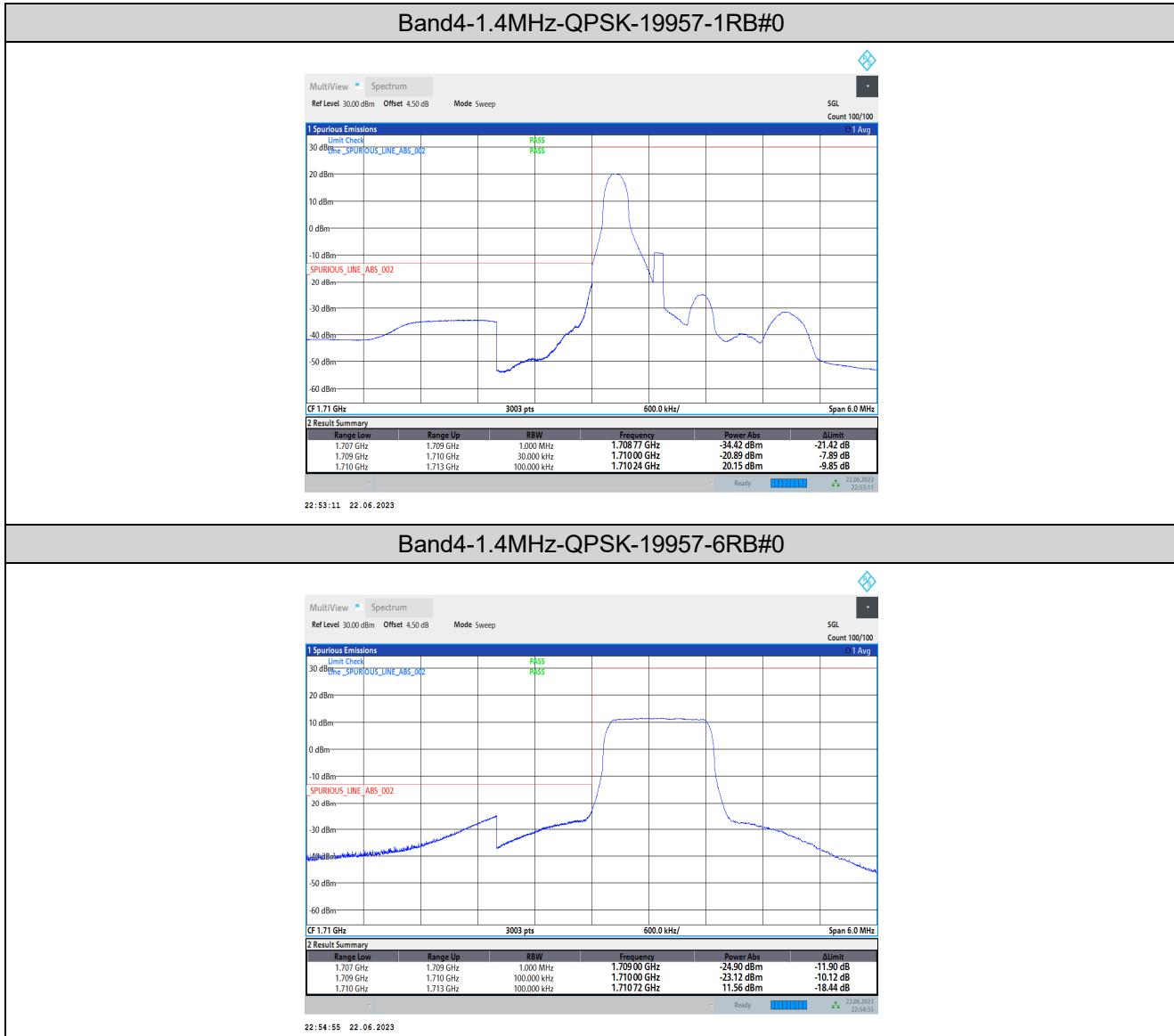
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Test Graphs



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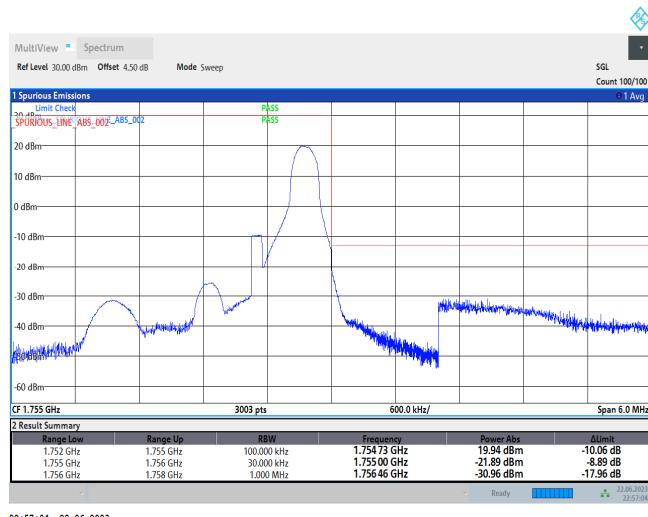


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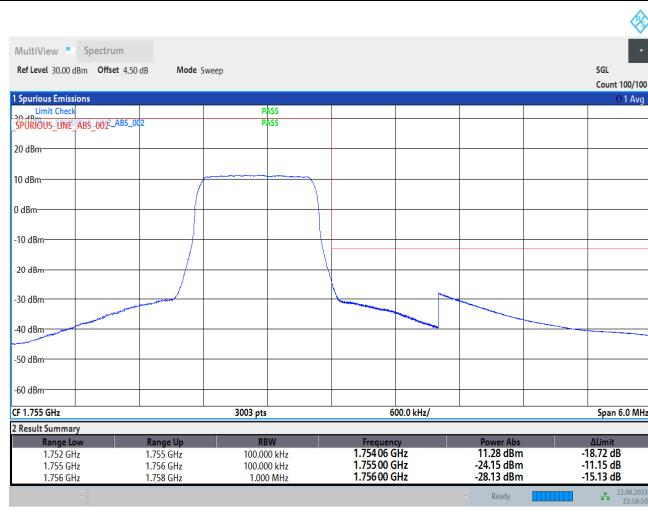
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Band4-1.4MHz-QPSK-20393-1RB#5



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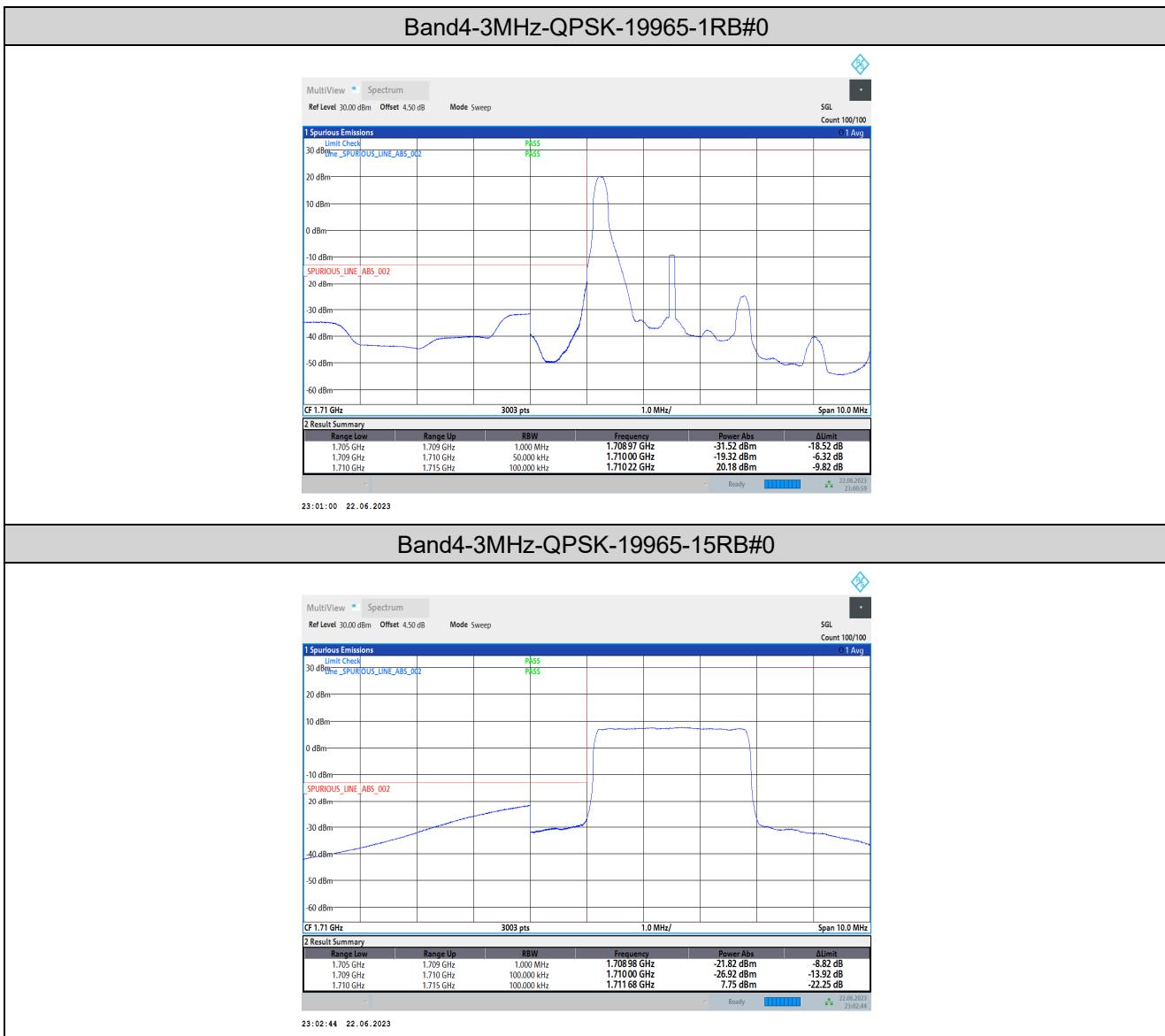


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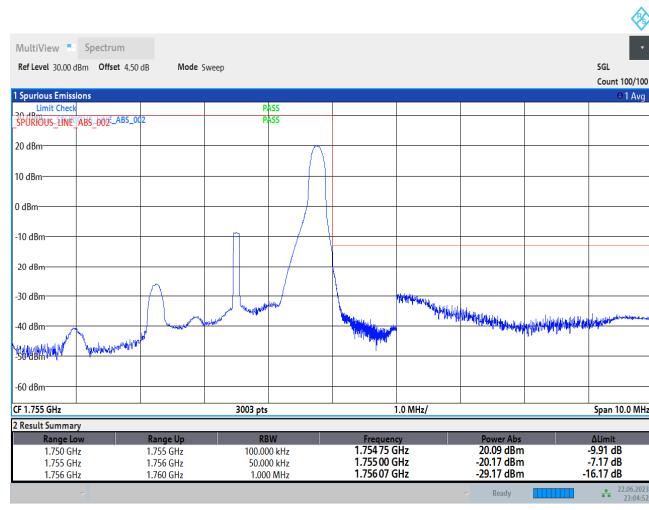
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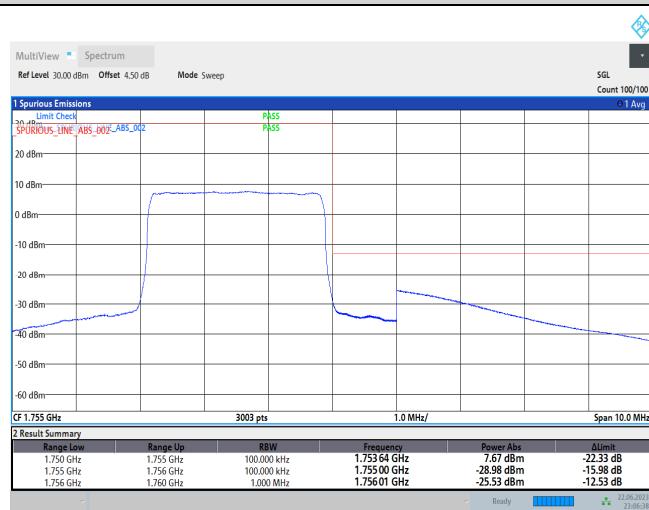
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Band4-3MHz-QPSK-20385-1RB#14



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



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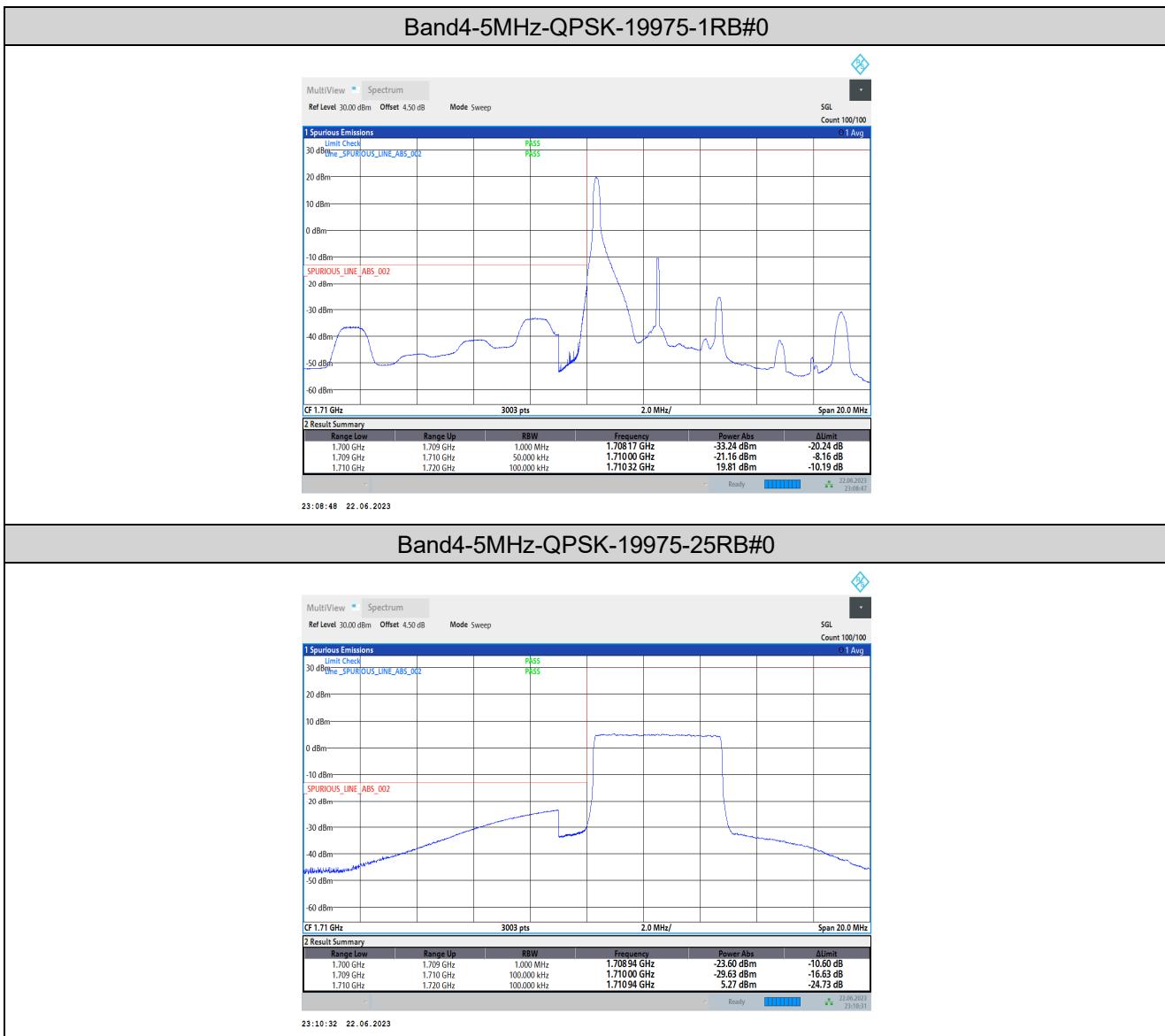
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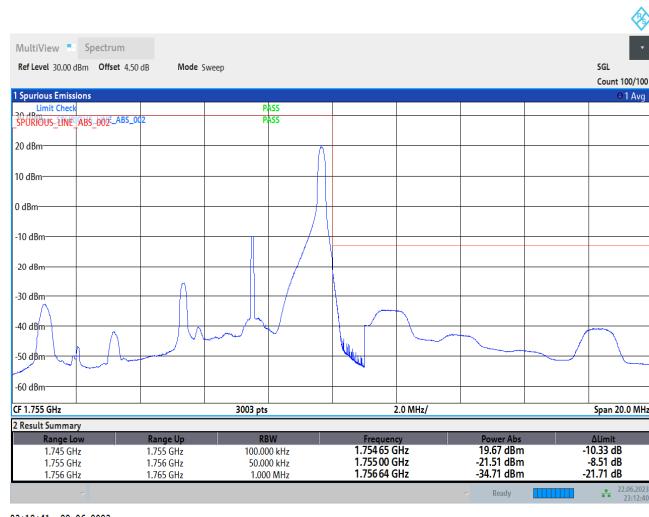


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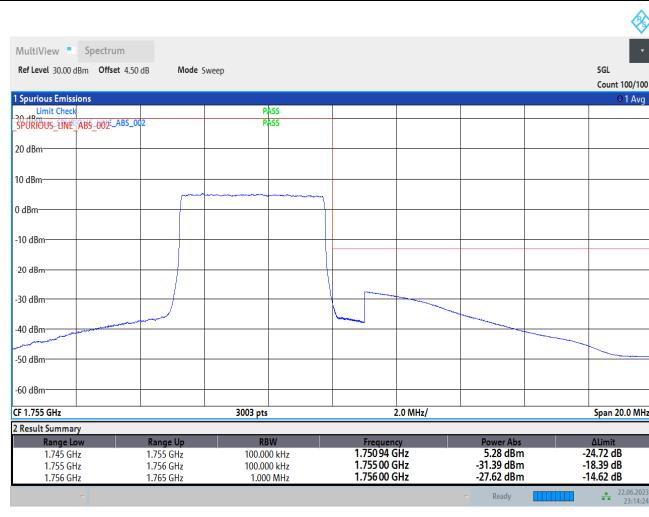
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Band4-5MHz-QPSK-20375-1RB#24



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



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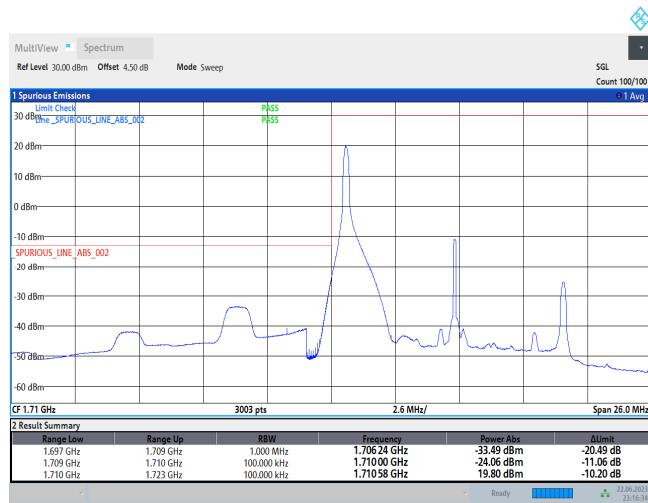
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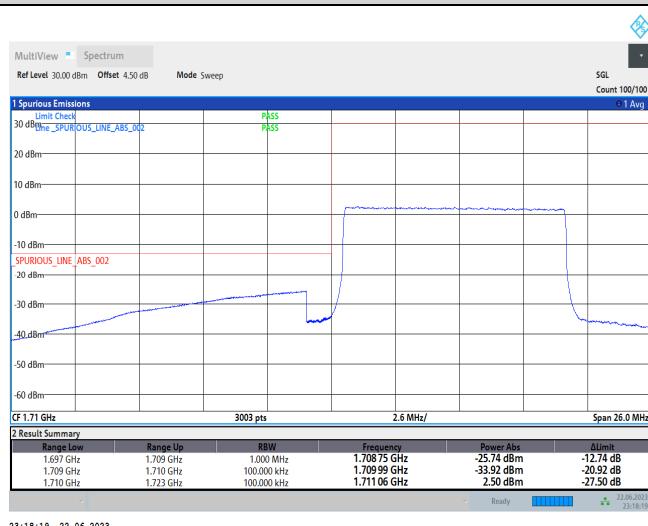
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Band4-10MHz-QPSK-20000-1RB#0



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



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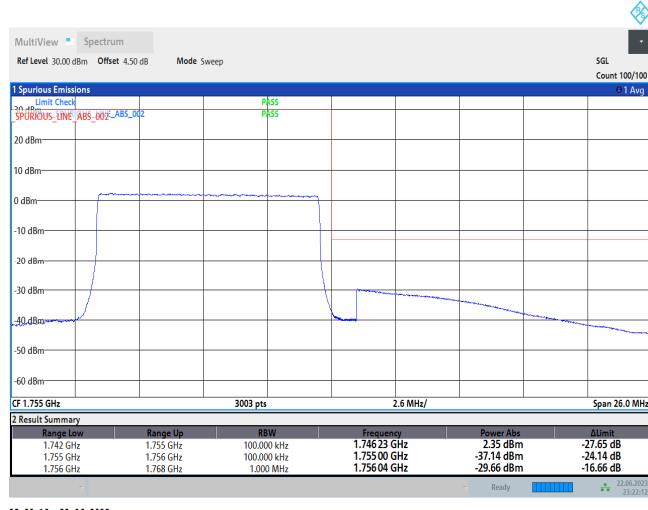
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23:20:28 22.06.2023

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



23:22:12 22.06.2023



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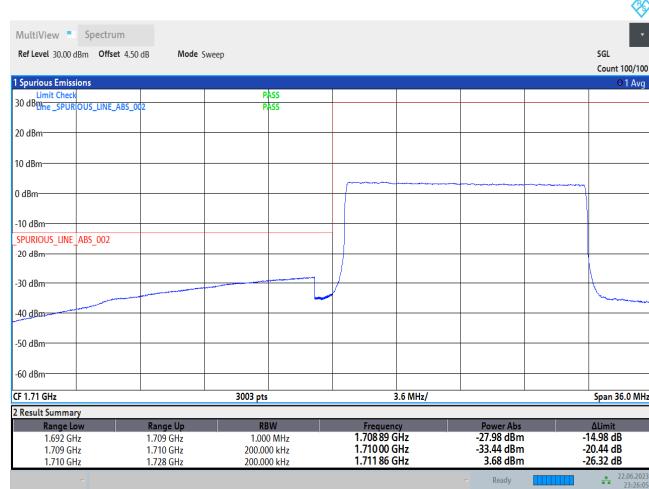
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Band4-15MHz-QPSK-20025-75RB#0



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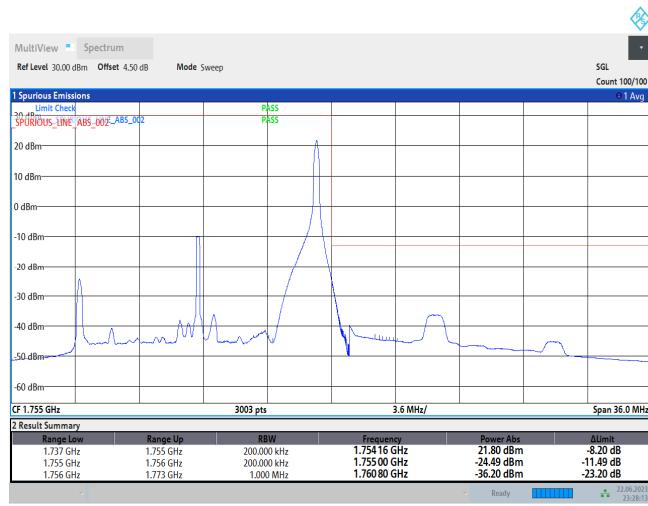
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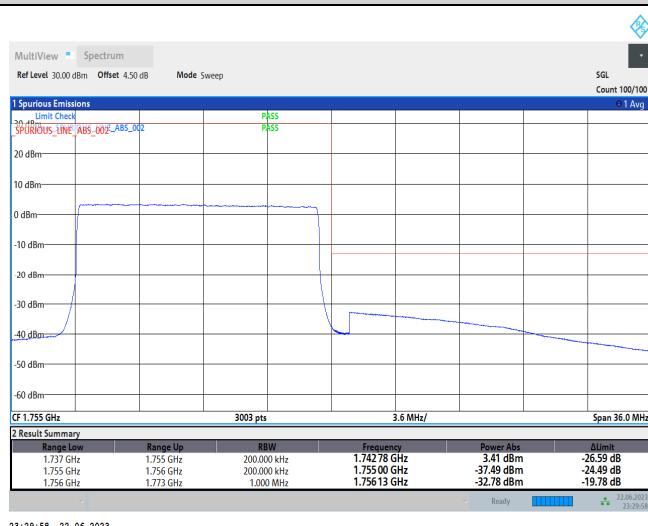
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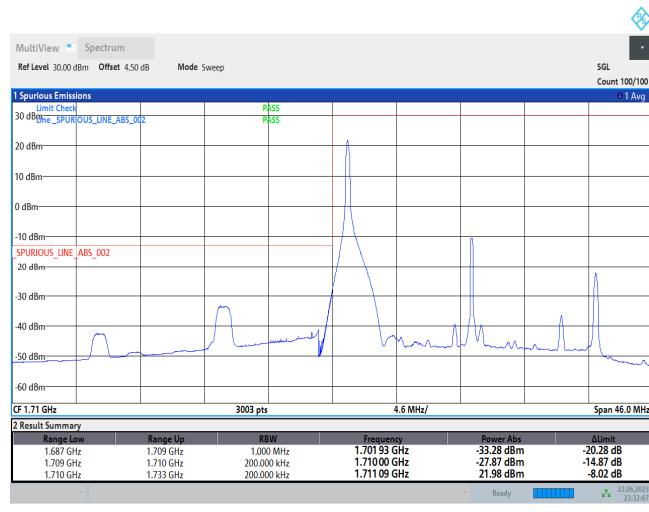
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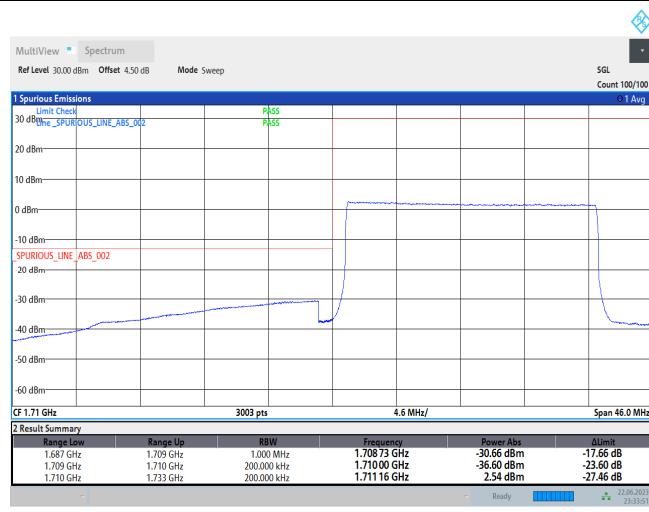
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Band4-20MHz-QPSK-20050-1RB#0



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



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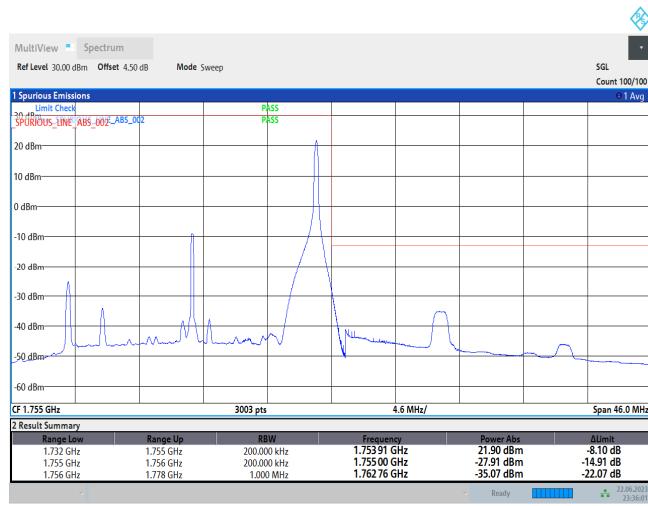
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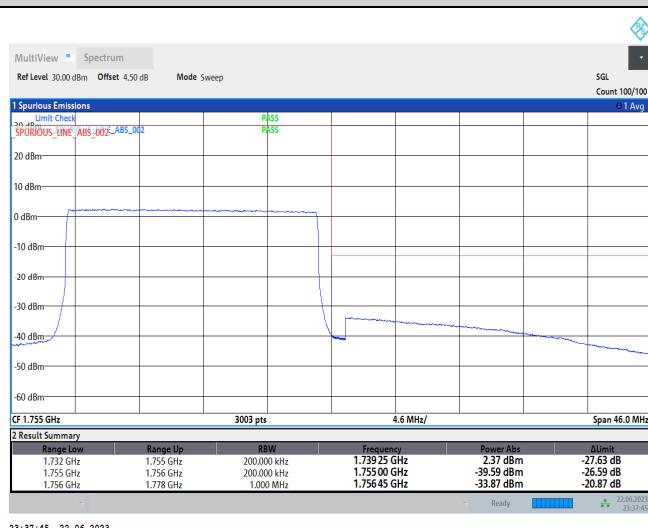
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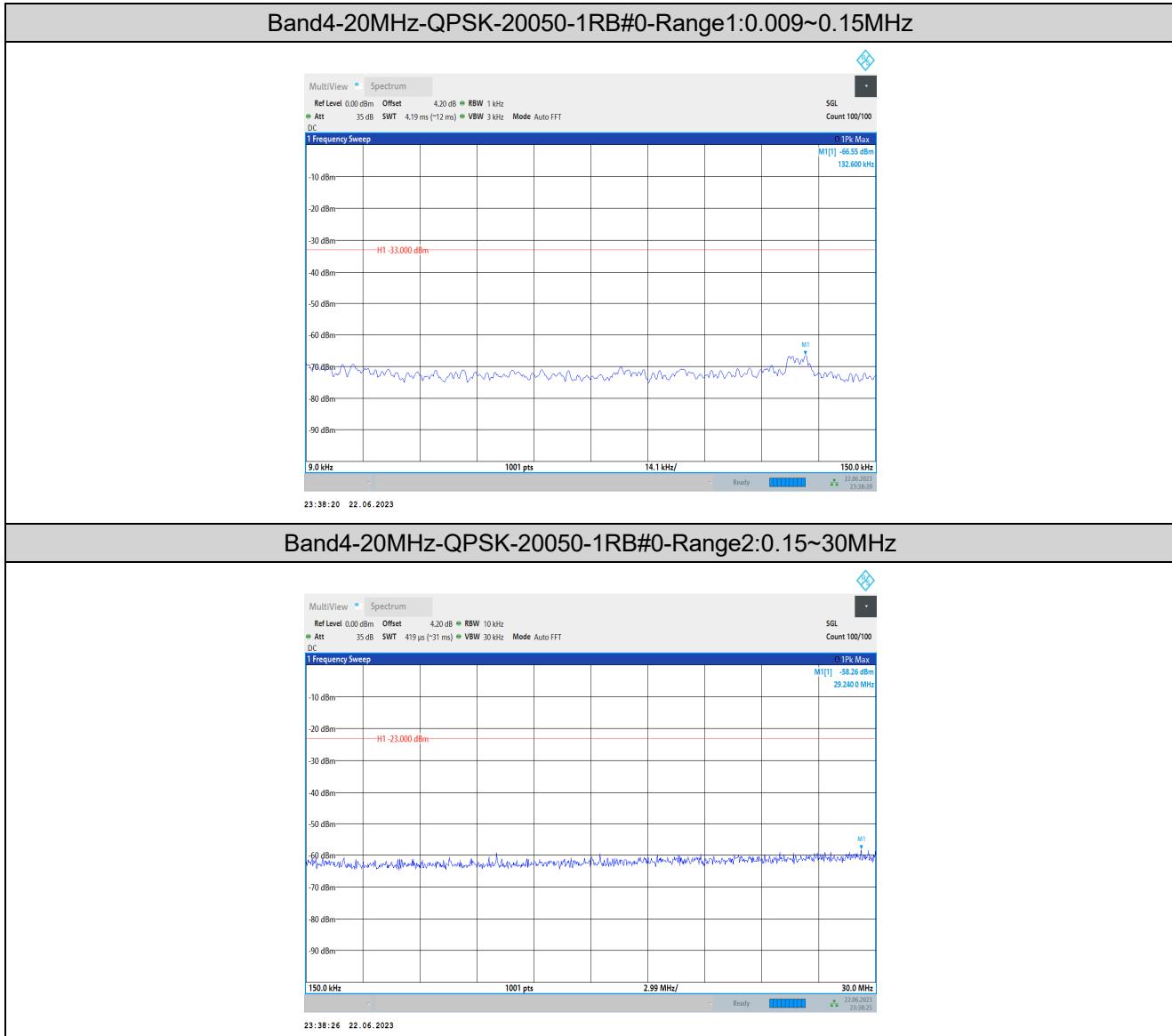
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Conducted Spurious Emission

Test Graphs



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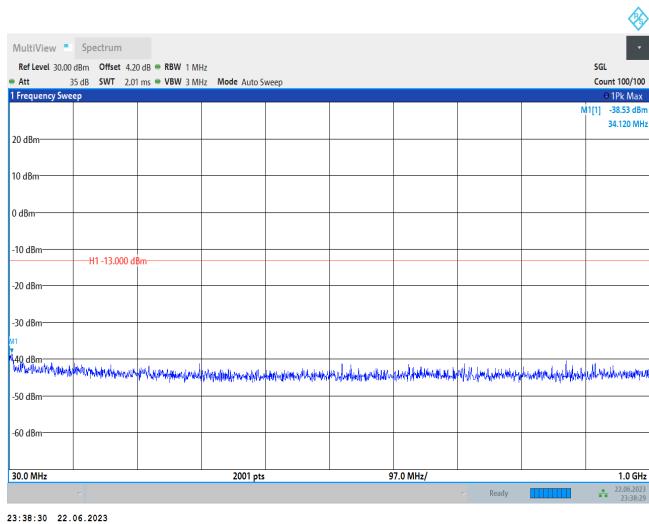
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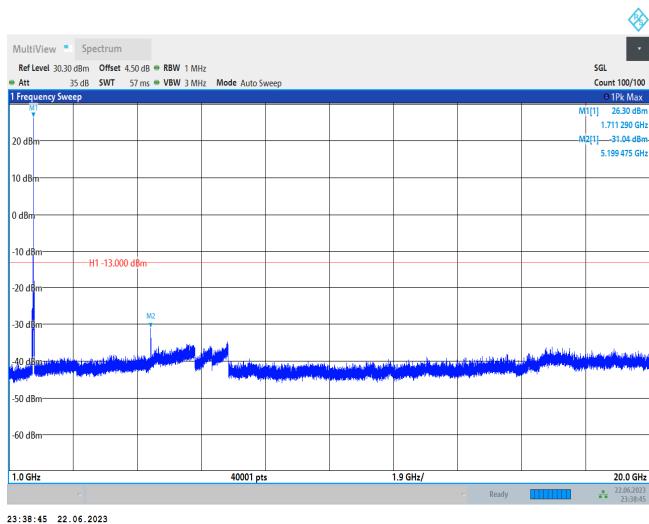
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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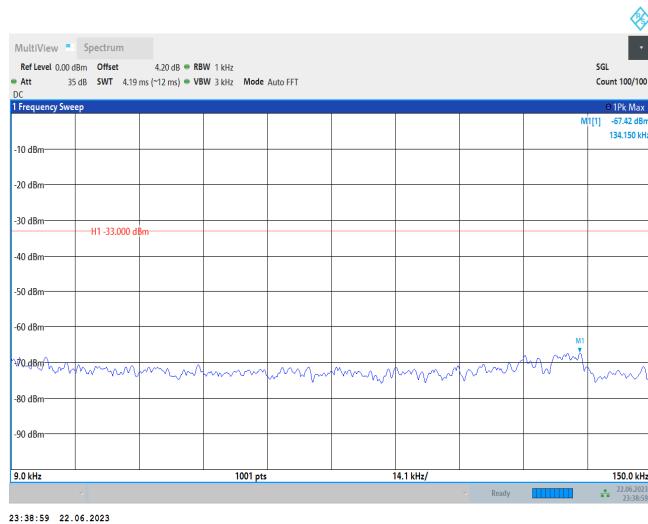
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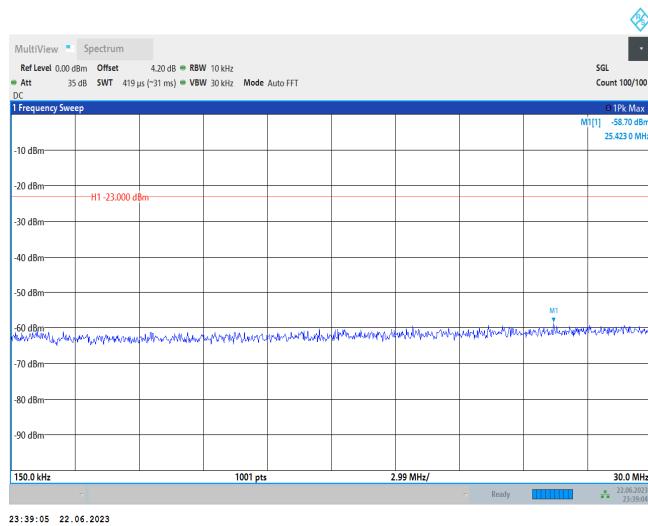
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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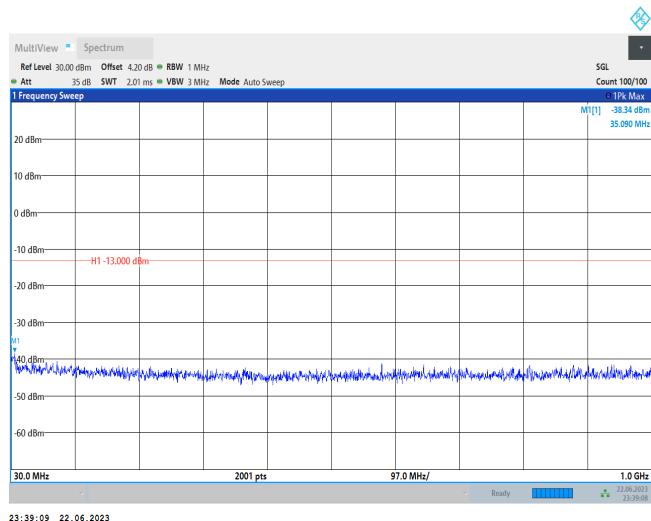
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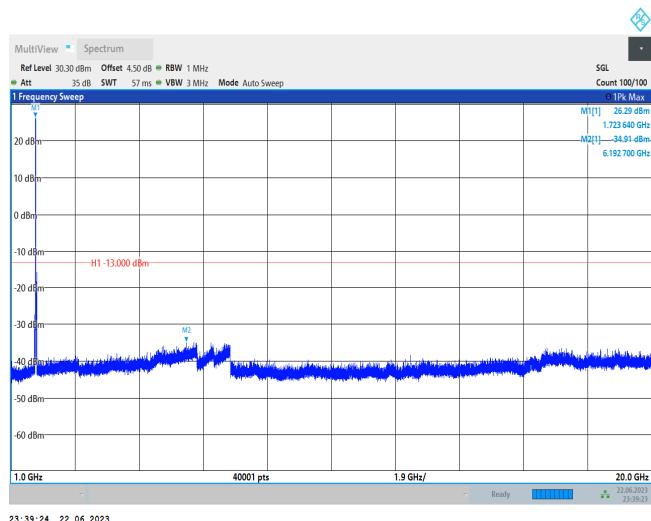
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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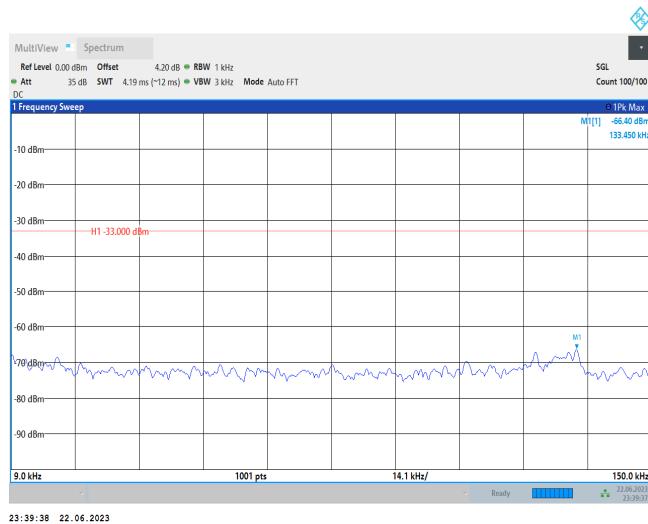
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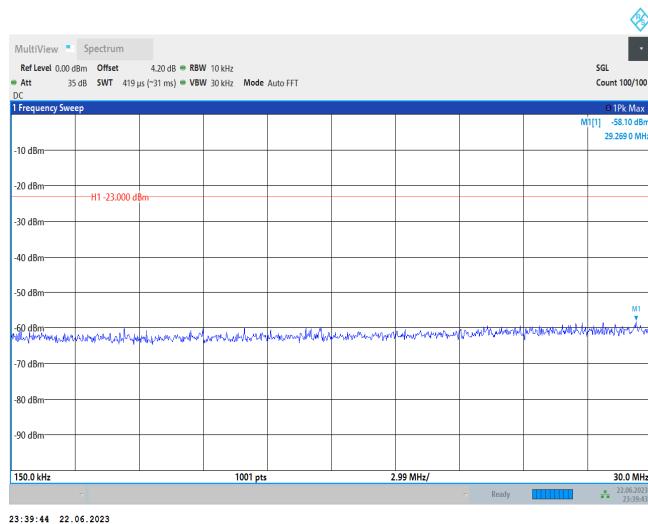
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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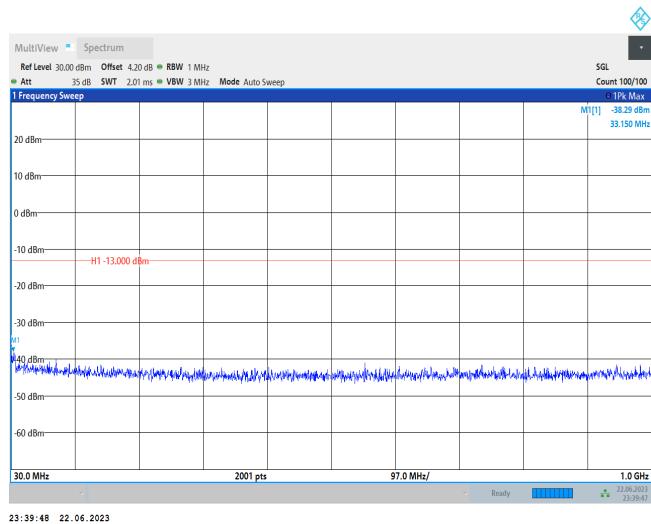
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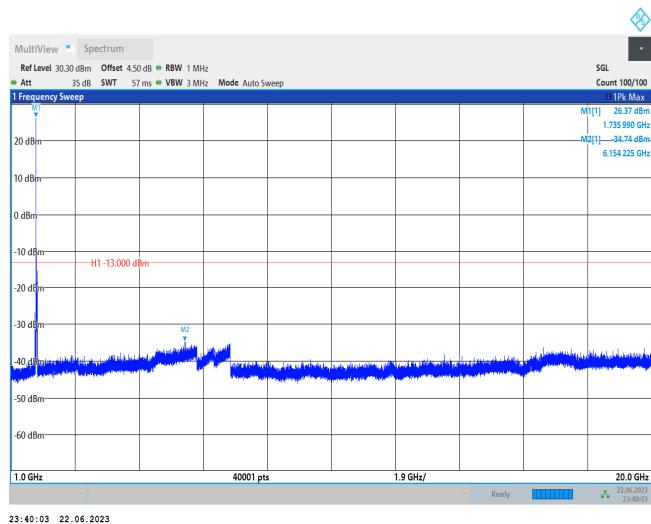
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE band 4_ TM1_20MHz

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	66.19	-46.28	28.55	-46.79	-13.00	33.79	211	118	Horizontal
2	5133.2700	38.60	-45.34	31.72	-70.28	-13.00	57.28	122	43	Horizontal
3	6844.3600	39.45	-44.14	34.92	-65.03	-13.00	52.03	231	164	Horizontal
4	8555.4500	36.08	-41.46	36.52	-64.12	-13.00	51.12	126	13	Horizontal
5	10266.5400	30.84	-39.23	38.33	-65.31	-13.00	52.31	189	360	Horizontal
6	11977.6300	26.78	-37.51	38.80	-67.20	-13.00	54.20	196	270	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	63.80	-46.28	28.55	-49.18	-13.00	36.18	244	90	Vertical
2	5133.2700	39.32	-45.34	31.72	-69.56	-13.00	56.56	145	330	Vertical
3	6844.3600	39.28	-44.14	34.92	-65.20	-13.00	52.20	156	330	Vertical
4	8555.4500	36.13	-41.46	36.52	-64.07	-13.00	51.07	123	356	Vertical
5	10266.5400	30.27	-39.23	38.33	-65.88	-13.00	52.88	265	8	Vertical
6	11977.6300	26.01	-37.51	38.80	-67.97	-13.00	54.97	187	120	Vertical



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Test Band = LTE band 4_ TM1_20MHz

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	61.29	-46.27	28.57	-51.67	-13.00	38.67	111	133	Horizontal
2	5170.7700	40.01	-45.31	31.81	-68.74	-13.00	55.74	148	13	Horizontal
3	6894.3600	38.71	-44.10	35.01	-65.64	-13.00	52.64	189	57	Horizontal
4	8617.9500	35.95	-41.40	36.49	-64.21	-13.00	51.21	159	283	Horizontal
5	10341.5400	30.72	-39.06	38.37	-65.23	-13.00	52.23	178	222	Horizontal
6	12065.1300	27.43	-37.44	38.82	-66.45	-13.00	53.45	117	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	65.40	-46.27	28.57	-47.56	-13.00	34.56	118	74	Vertical
2	5170.7700	40.65	-45.31	31.81	-68.10	-13.00	55.10	166	0	Vertical
3	6894.3600	38.63	-44.10	35.01	-65.72	-13.00	52.72	259	240	Vertical
4	8617.9500	35.57	-41.40	36.49	-64.59	-13.00	51.59	158	60	Vertical
5	10341.5400	30.84	-39.06	38.37	-65.11	-13.00	52.11	175	0	Vertical
6	12065.1300	26.90	-37.44	38.82	-66.98	-13.00	53.98	123	120	Vertical



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Test Band = LTE band 4_ TM1_20MHz

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	68.89	-46.27	28.58	-44.05	-13.00	31.05	222	130	Horizontal
2	5208.2700	39.69	-45.26	31.90	-68.93	-13.00	55.93	155	191	Horizontal
3	6944.3600	38.59	-43.85	35.10	-65.42	-13.00	52.42	175	160	Horizontal
4	8680.4500	35.88	-41.62	36.46	-64.54	-13.00	51.54	186	267	Horizontal
5	10416.5400	29.92	-38.97	38.41	-65.91	-13.00	52.91	136	71	Horizontal
6	12152.6300	28.07	-37.42	38.85	-65.76	-13.00	52.76	216	191	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	64.71	-46.27	28.58	-48.23	-13.00	35.23	144	90	Vertical
2	5208.2700	42.38	-45.26	31.90	-66.24	-13.00	53.24	188	165	Vertical
3	6944.3600	38.43	-43.85	35.10	-65.58	-13.00	52.58	172	90	Vertical
4	8680.4500	35.33	-41.62	36.46	-65.09	-13.00	52.09	143	225	Vertical
5	10416.5400	30.74	-38.97	38.41	-65.09	-13.00	52.09	216	299	Vertical
6	12152.6300	27.85	-37.42	38.85	-65.98	-13.00	52.98	199	7	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	3.40	0.001962	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-12.70	-0.007330	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-17.90	-0.010332	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-4.70	-0.002713	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	2.40	0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.70	-0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-13.30	-0.007677	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-11.70	-0.006753	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	3.10	0.001789	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	4.90	0.002828	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-14.30	-0.008254	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-10.80	-0.006234	PASS

---End of Attachment---

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