

# Appendix B.5

## LTE Band 4



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	20.63	21.73	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	20.68	21.78	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	20.7	21.8	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	19.87	20.97	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	20.64	21.74	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	20.69	21.79	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	20.65	21.75	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	19.87	20.97	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	20.68	21.78	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	20.69	21.79	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	20.73	21.83	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	19.83	20.93	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	19.83	20.93	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	20.01	21.11	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	19.86	20.96	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	18.9	20	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	19.91	21.01	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	19.93	21.03	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	19.85	20.95	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	18.92	20.02	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	19.88	20.98	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	19.89	20.99	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20	21.1	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	18.84	19.94	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	18.76	19.86	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	18.9	20	30.00	PASS



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Band4	1.4MHz	64QAM	19957	1RB#5	18.88	19.98	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	17.81	18.91	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	18.93	20.03	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	18.95	20.05	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	18.92	20.02	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	17.92	19.02	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	18.79	19.89	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	18.91	20.01	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	18.77	19.87	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	17.87	18.97	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	20.77	21.87	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	20.8	21.9	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	20.59	21.69	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	19.96	21.06	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	20.69	21.79	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	20.77	21.87	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	20.68	21.78	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	19.84	20.94	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	20.62	21.72	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	20.72	21.82	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	20.65	21.75	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	19.86	20.96	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	19.97	21.07	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	20.05	21.15	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	20.04	21.14	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	18.93	20.03	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	19.88	20.98	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	20.04	21.14	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	20.04	21.14	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	18.88	19.98	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	19.88	20.98	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	20	21.1	30.00	PASS



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Band4	3MHz	16QAM	20385	1RB#14	19.91	21.01	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	18.84	19.94	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	19.26	20.36	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	19.09	20.19	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	18.88	19.98	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	18	19.1	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	19.05	20.15	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	18.98	20.08	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	18.85	19.95	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	17.86	18.96	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	18.8	19.9	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	19	20.1	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	18.91	20.01	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	17.93	19.03	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	20.75	21.85	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	20.7	21.8	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	20.79	21.89	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	19.96	21.06	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	20.62	21.72	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	20.76	21.86	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	20.67	21.77	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	19.8	20.9	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	20.65	21.75	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	20.65	21.75	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	20.59	21.69	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	19.88	20.98	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	19.91	21.01	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	19.97	21.07	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	19.94	21.04	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	18.91	20.01	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	19.82	20.92	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	20.04	21.14	30.00	PASS



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Band4	5MHz	16QAM	20175	1RB#24	20.14	21.24	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	18.9	20	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	19.79	20.89	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	19.95	21.05	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	19.94	21.04	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	18.87	19.97	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	18.91	20.01	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	18.93	20.03	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	18.86	19.96	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	17.96	19.06	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	18.99	20.09	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	18.96	20.06	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	18.91	20.01	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	17.88	18.98	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	18.94	20.04	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	19.03	20.13	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	19.01	20.11	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	17.86	18.96	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	20.7	21.8	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	20.83	21.93	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	20.74	21.84	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	19.91	21.01	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	20.67	21.77	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	20.74	21.84	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	20.68	21.78	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	19.8	20.9	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	20.64	21.74	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	20.78	21.88	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	20.68	21.78	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	19.86	20.96	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	19.99	21.09	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	19.94	21.04	30.00	PASS



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Band4	10MHz	16QAM	20000	1RB#49	19.99	21.09	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	18.93	20.03	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	19.89	20.99	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	20.02	21.12	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	19.96	21.06	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	18.91	20.01	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	19.79	20.89	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	20.07	21.17	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	20.16	21.26	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	18.92	20.02	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	18.92	20.02	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	19.08	20.18	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	18.89	19.99	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	17.95	19.05	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	19.02	20.12	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	19.04	20.14	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	19.05	20.15	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	17.88	18.98	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	18.83	19.93	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	18.99	20.09	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	19.01	20.11	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	17.85	18.95	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	20.61	21.71	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	20.68	21.78	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	20.76	21.86	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	19.8	20.9	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	20.49	21.59	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	20.81	21.91	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	20.73	21.83	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	19.74	20.84	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	20.56	21.66	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	20.55	21.65	30.00	PASS



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Band4	15MHz	QPSK	20325	1RB#74	20.75	21.85	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	19.77	20.87	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	19.85	20.95	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	19.68	20.78	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	20	21.1	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	18.79	19.89	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	19.67	20.77	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	19.85	20.95	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	19.93	21.03	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	18.67	19.77	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	19.64	20.74	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	19.79	20.89	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	19.82	20.92	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	18.76	19.86	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	18.68	19.78	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	18.77	19.87	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	18.94	20.04	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	17.76	18.86	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	18.89	19.99	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	19.2	20.3	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	19.01	20.11	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	17.79	18.89	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	18.82	19.92	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	18.85	19.95	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	18.99	20.09	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	17.83	18.93	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	20.48	21.58	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	20.67	21.77	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	20.79	21.89	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	19.78	20.88	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	20.47	21.57	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	20.62	21.72	30.00	PASS



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Wireless Laboratory

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Band4	20MHz	QPSK	20175	1RB#99	20.7	21.8	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	19.71	20.81	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	20.57	21.67	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	20.63	21.73	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	20.69	21.79	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	19.79	20.89	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	19.5	20.6	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	19.65	20.75	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	19.98	21.08	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.74	19.84	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	19.79	20.89	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	19.79	20.89	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	19.91	21.01	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.62	19.72	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	19.83	20.93	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	20.07	21.17	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	20.29	21.39	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.8	19.9	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	18.76	19.86	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	18.88	19.98	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	19	20.1	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.73	18.83	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	19.14	20.24	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	19.07	20.17	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	18.93	20.03	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.79	18.89	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	18.86	19.96	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	18.96	20.06	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	19.07	20.17	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.83	18.93	30.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.68	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.76	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.68	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.58	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.60	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.56	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.98	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	7.06	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.98	13	PASS



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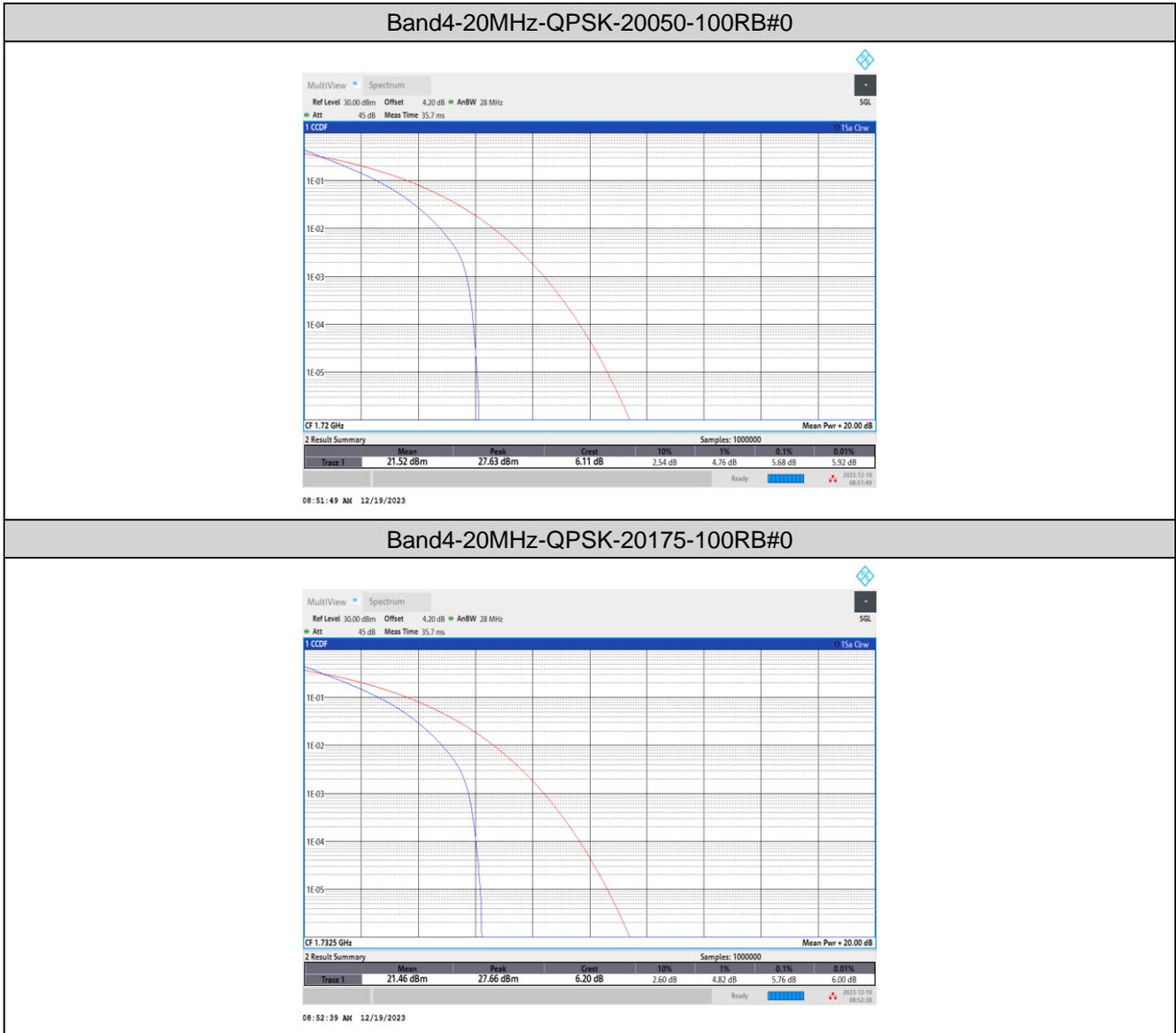
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Test Graphs

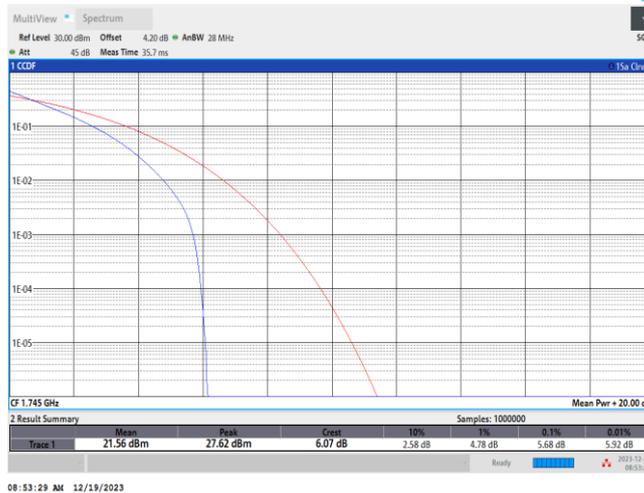


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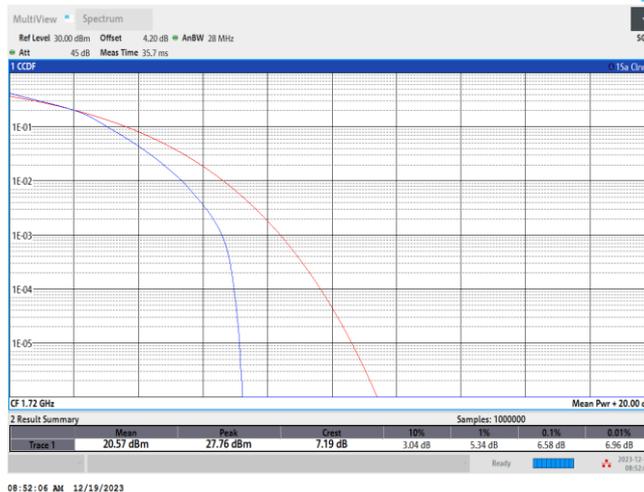
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Band4-20MHz-QPSK-20300-100RB#0



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

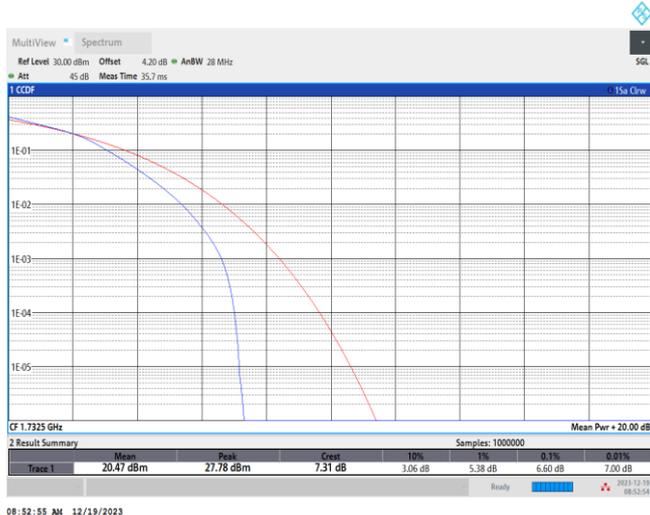


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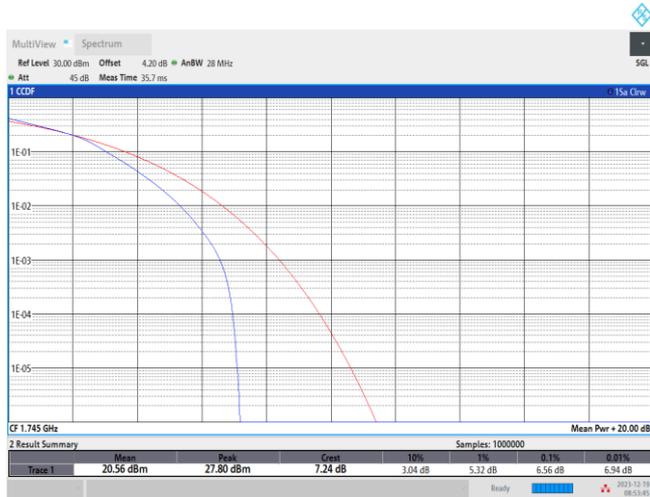
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Band4-20MHz-16QAM-20175-100RB#0



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



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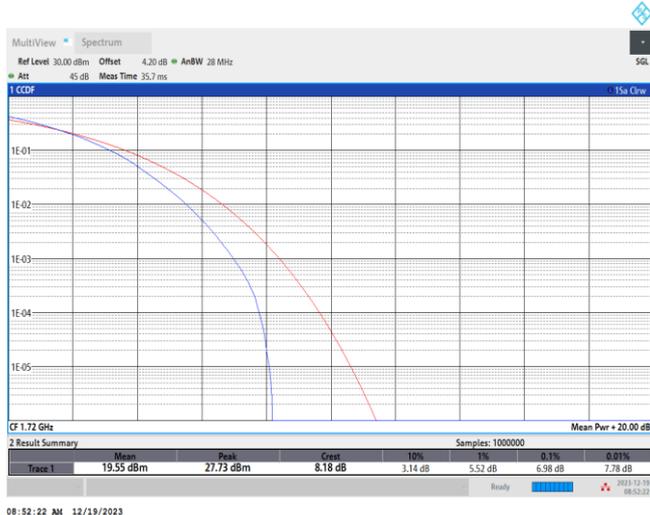


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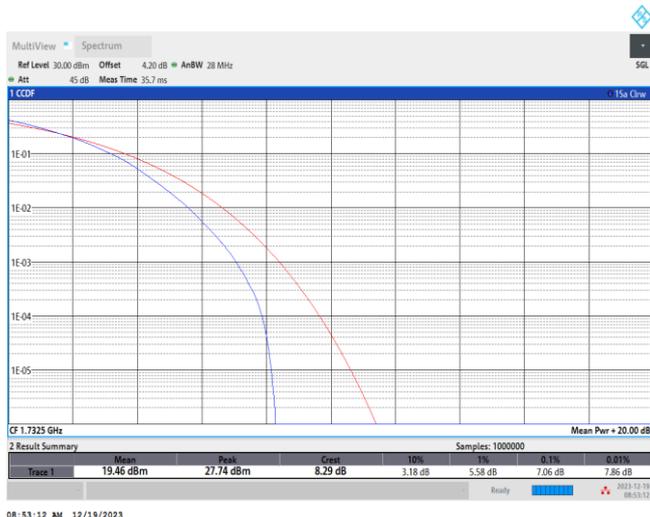
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Band4-20MHz-64QAM-20050-100RB#0



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

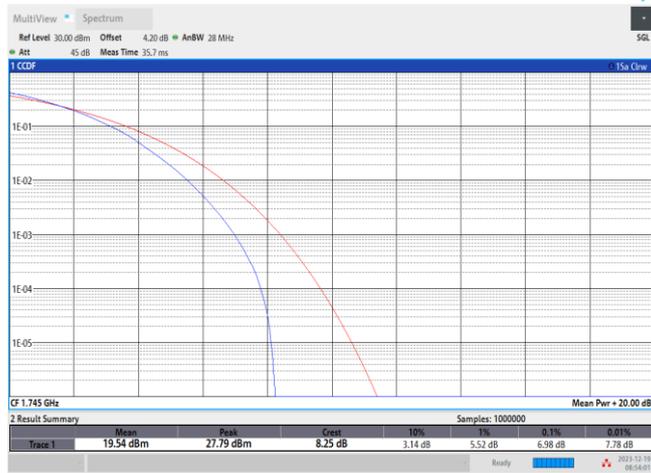


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Band4-20MHz-64QAM-20300-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	20175	6RB#0	1.109	1.39	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.109	1.39	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.106	1.43	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.701	3.04	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.697	3.07	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.704	3.04	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.479	5.04	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	5.05	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.477	5.08	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.946	9.92	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.952	9.90	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.945	9.88	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.497	15.03	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.508	15.09	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.518	15.15	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.949	19.68	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.954	19.72	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.949	19.76	PASS



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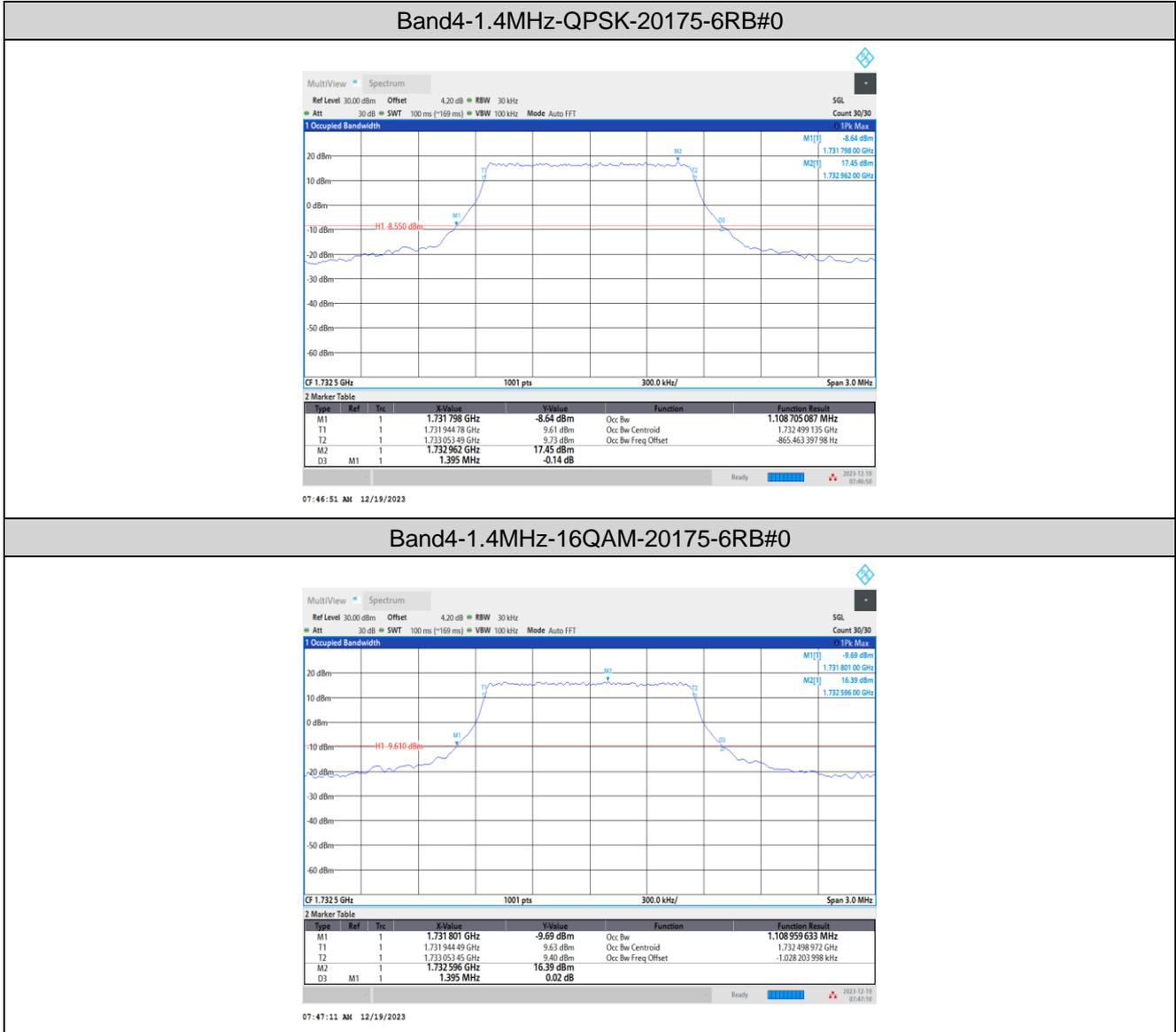
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Test Graphs

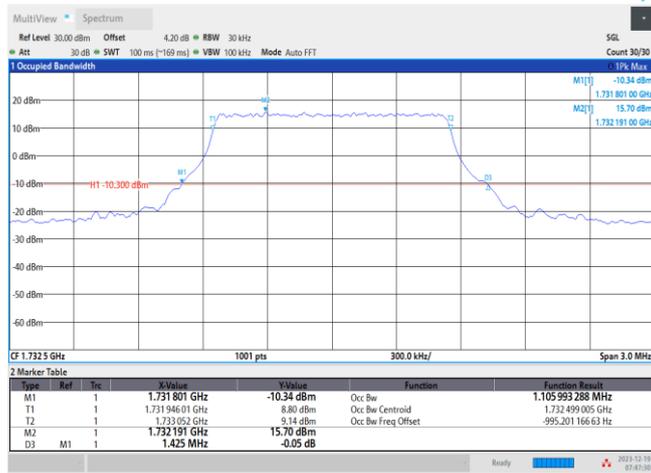

**Band4-1.4MHz-16QAM-20175-6RB#0**


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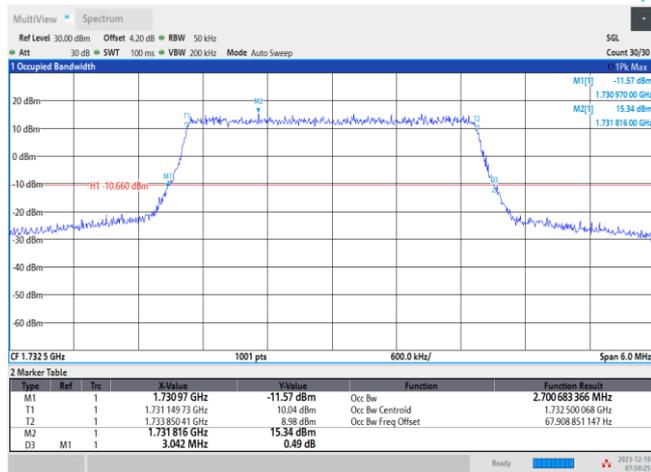
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Band4-1.4MHz-64QAM-20175-6RB#0



07:47:31 AM 12/19/2023

Band4-3MHz-QPSK-20175-15RB#0



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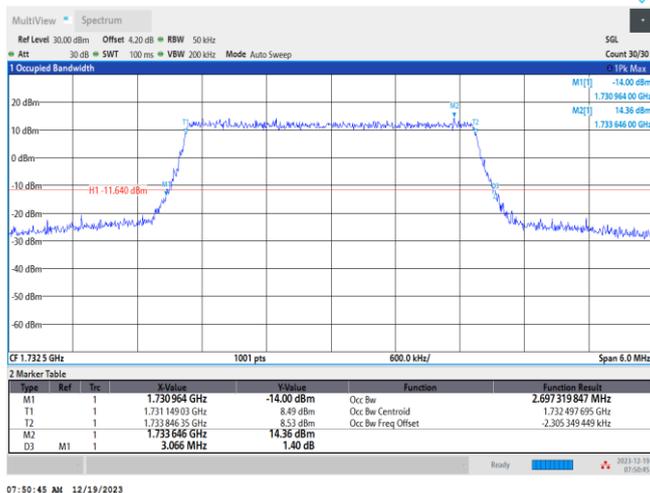


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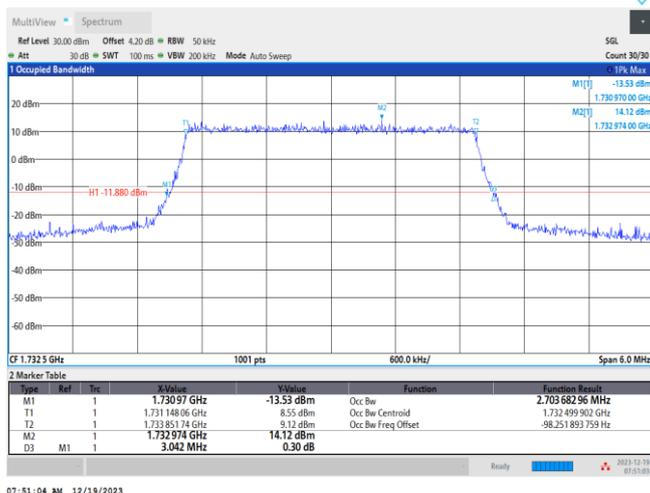
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Band4-3MHz-16QAM-20175-15RB#0



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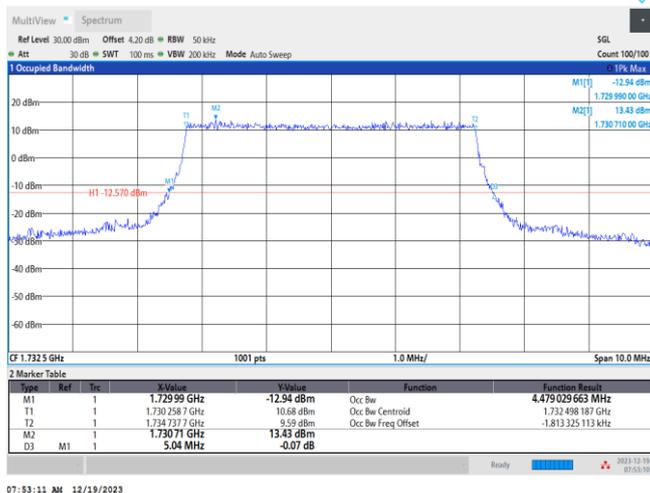
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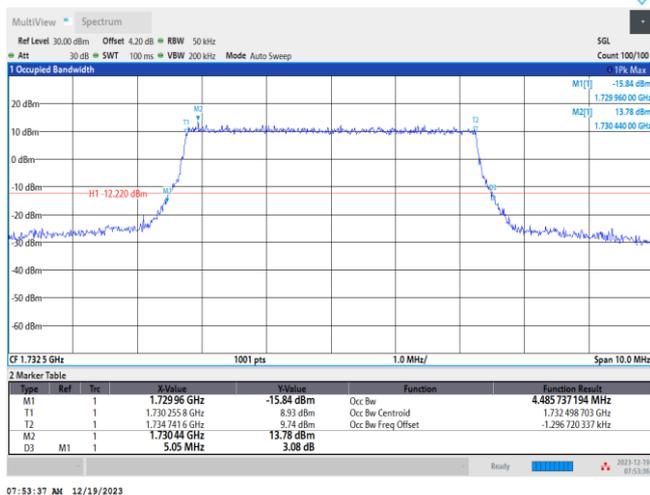
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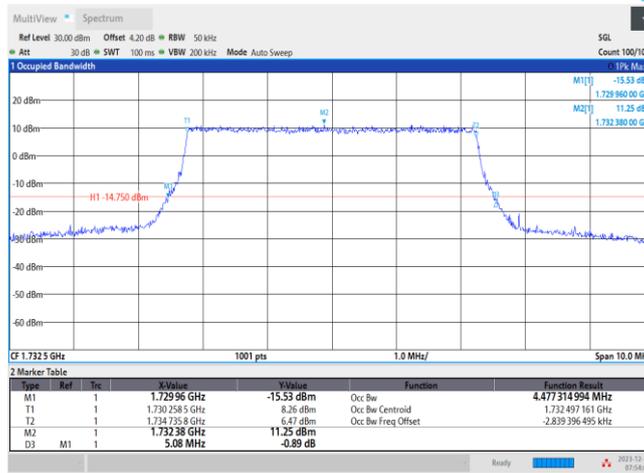


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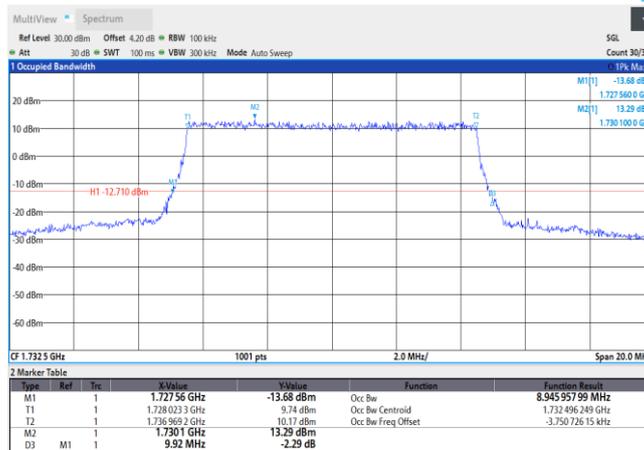
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Band4-10MHz-QPSK-20175-50RB#0



08:00:30 AM 12/19/2023

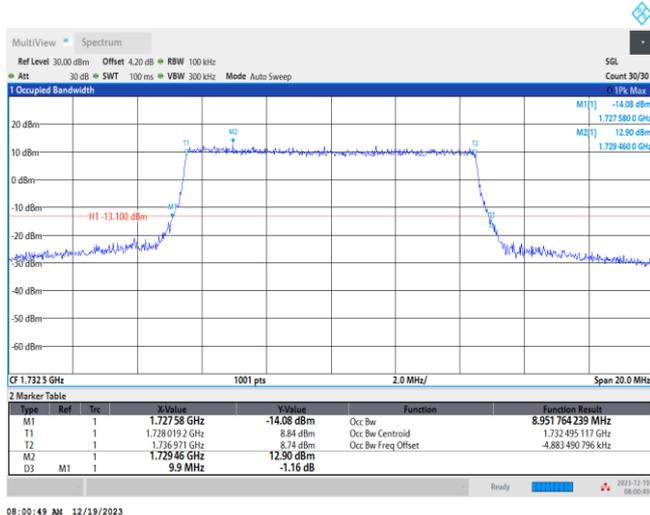


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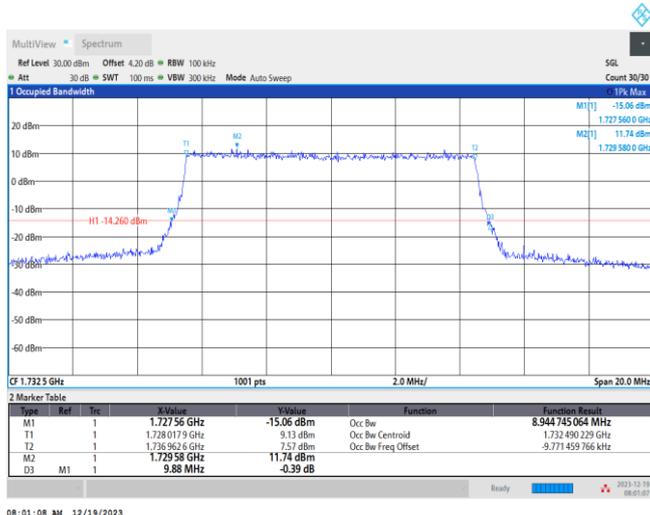
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Band4-10MHz-16QAM-20175-50RB#0



Band4-10MHz-64QAM-20175-50RB#0

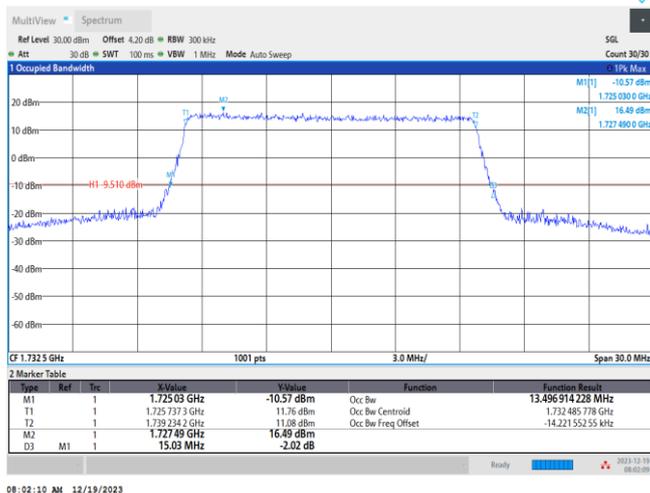


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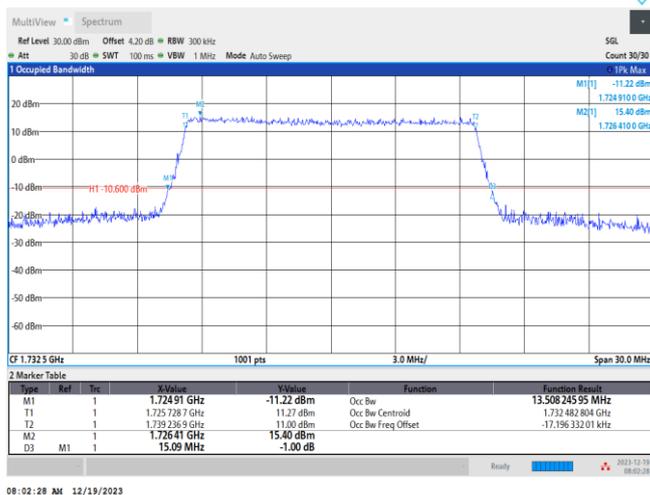
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Band4-15MHz-QPSK-20175-75RB#0



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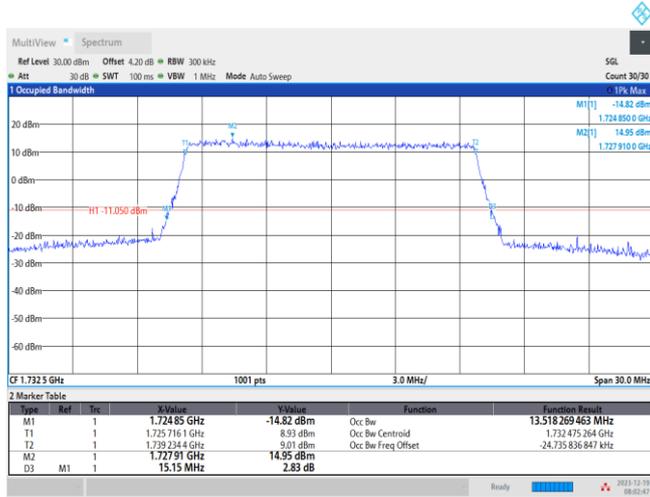


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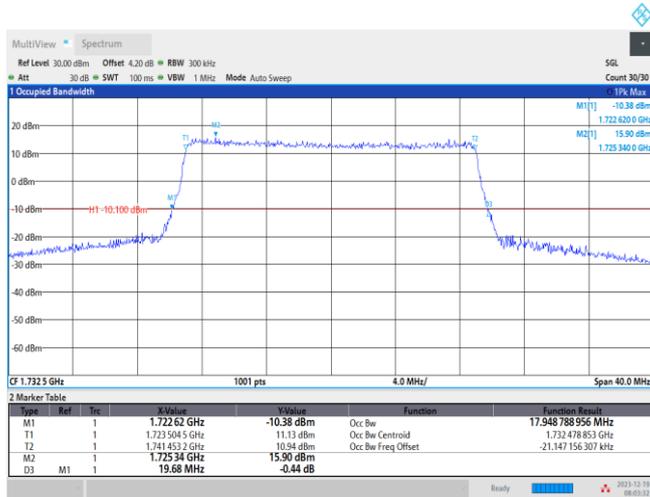
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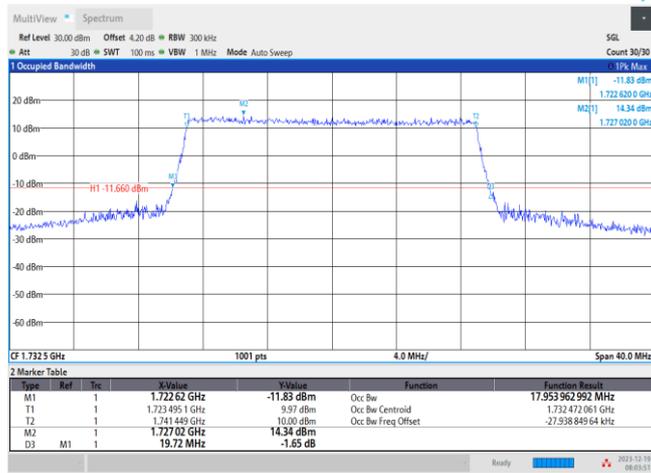


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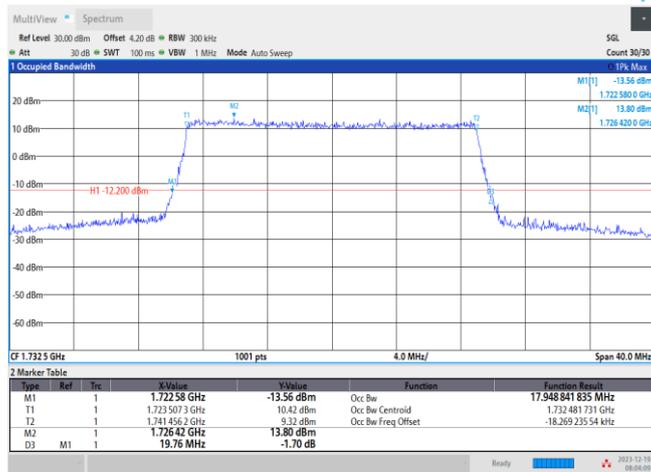
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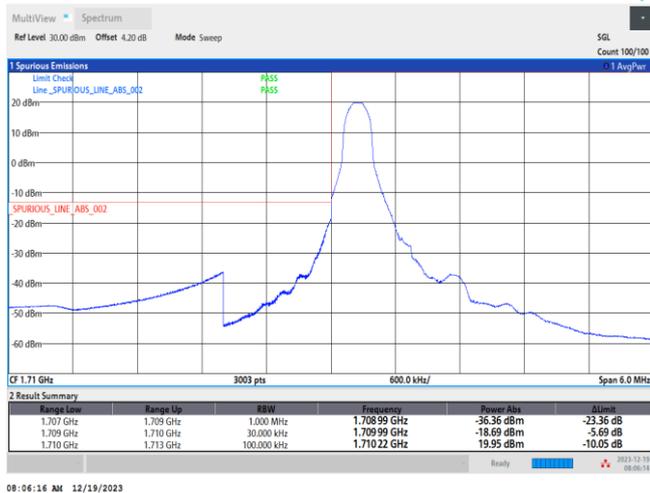
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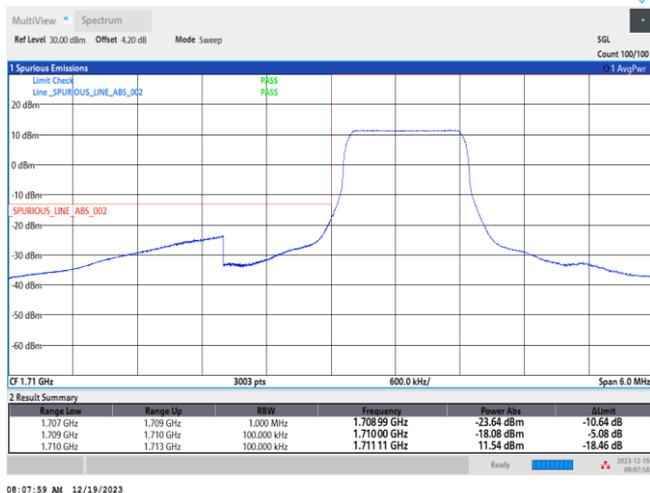
# Band Edge

## Test Graphs

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



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

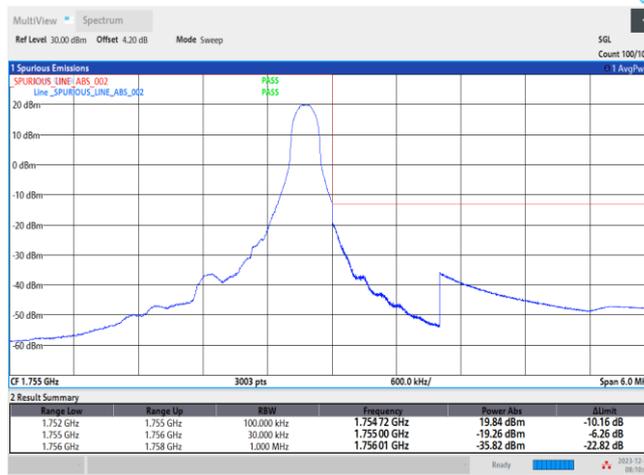


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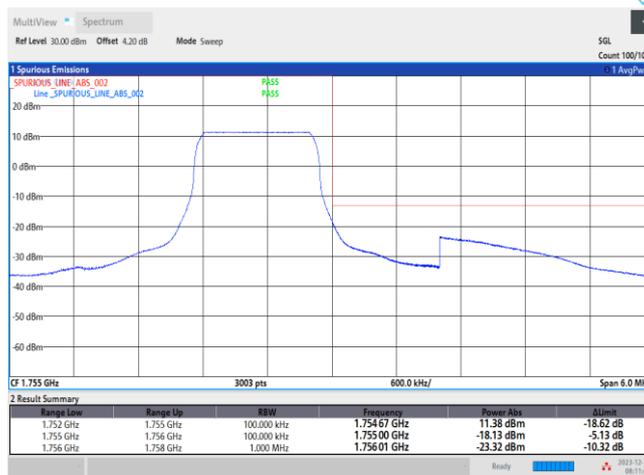
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Band4-1.4MHz-QPSK-20393-1RB#5



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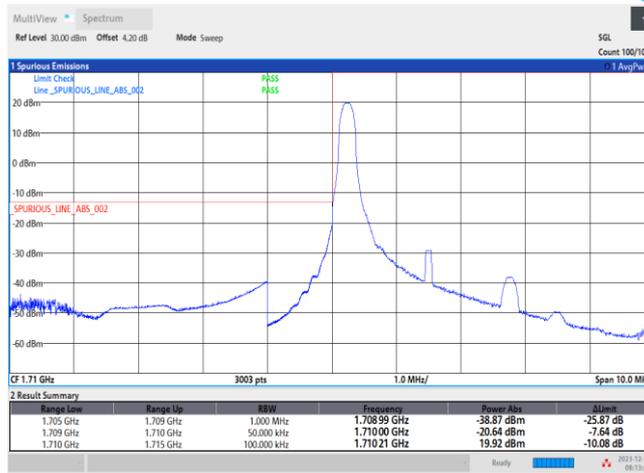


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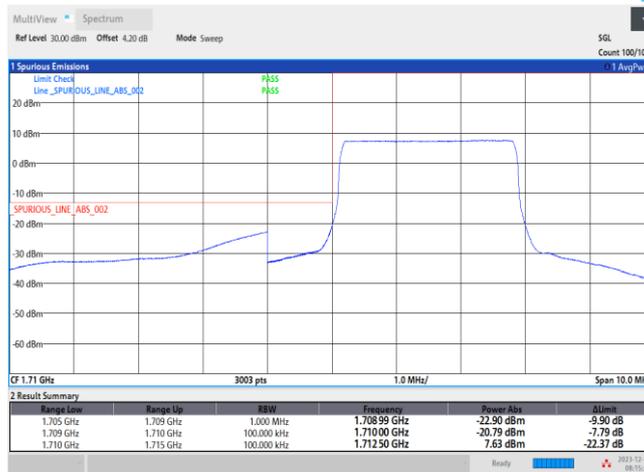
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Band4-3MHz-QPSK-19965-1RB#0



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



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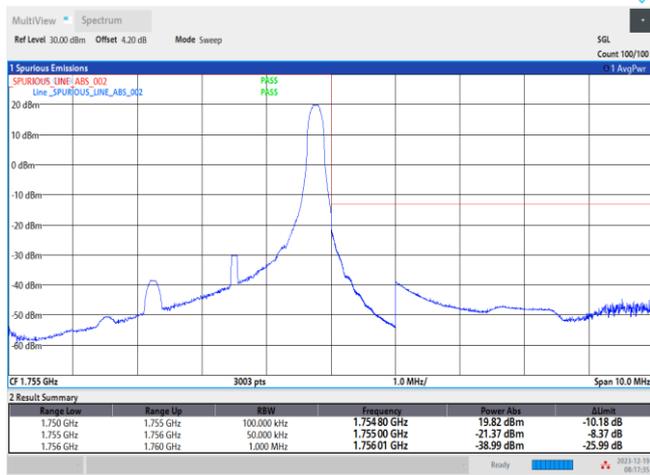


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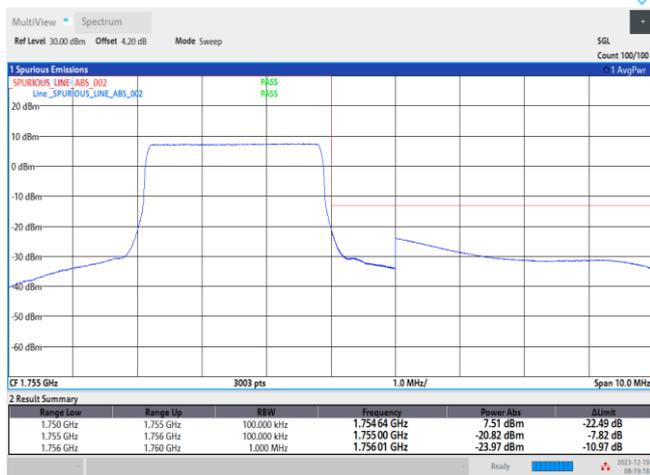
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Band4-3MHz-QPSK-20385-1RB#14



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



08:19:19 AM 12/19/2023

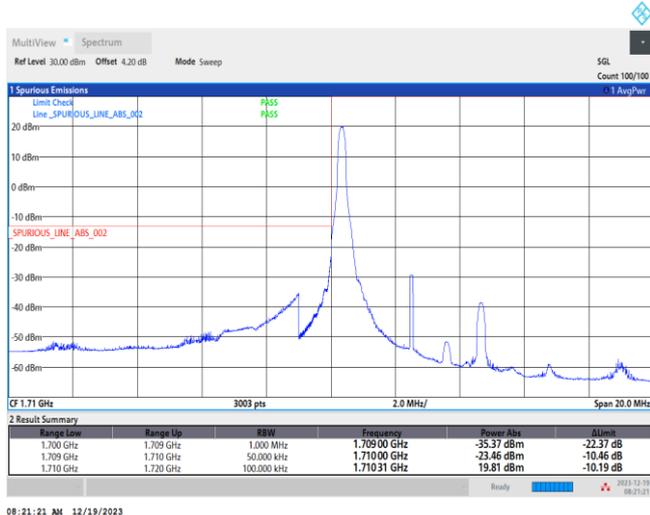


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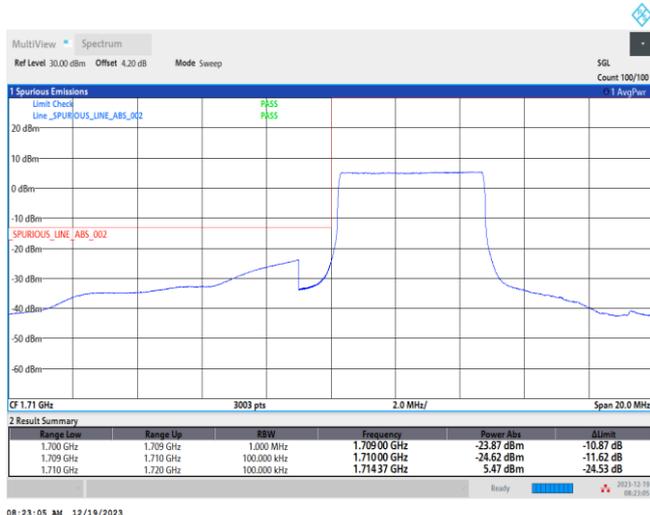
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Band4-5MHz-QPSK-19975-1RB#0



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



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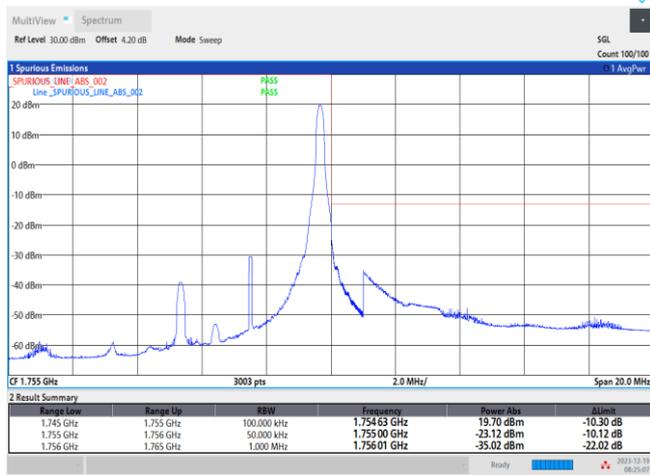


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Band4-5MHz-QPSK-20375-1RB#24

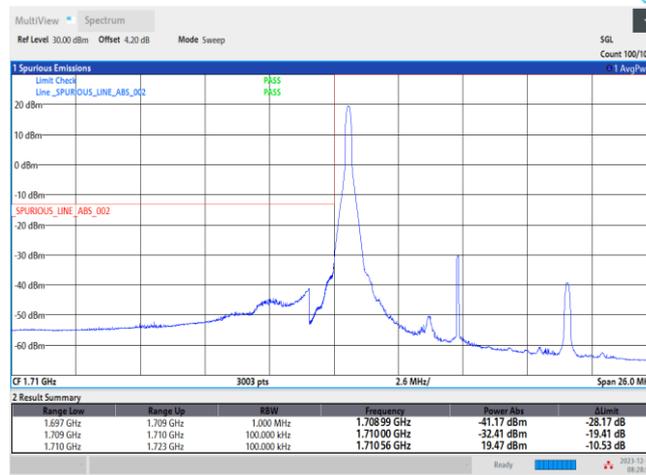


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Band4-10MHz-QPSK-20000-1RB#0



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



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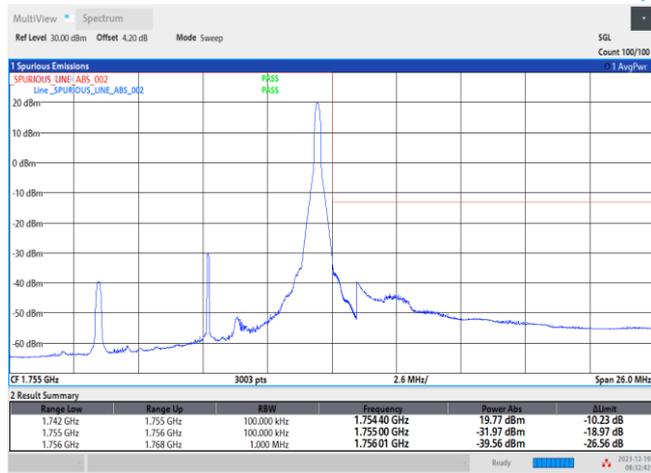


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Band4-10MHz-QPSK-20350-1RB#49



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



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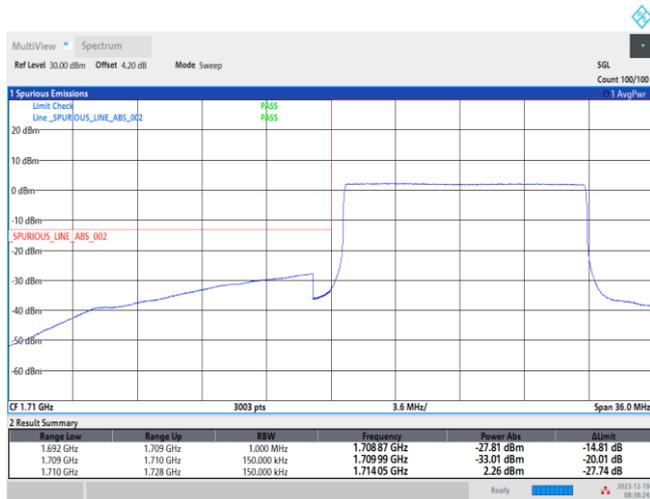
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Band4-15MHz-QPSK-20025-1RB#0



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



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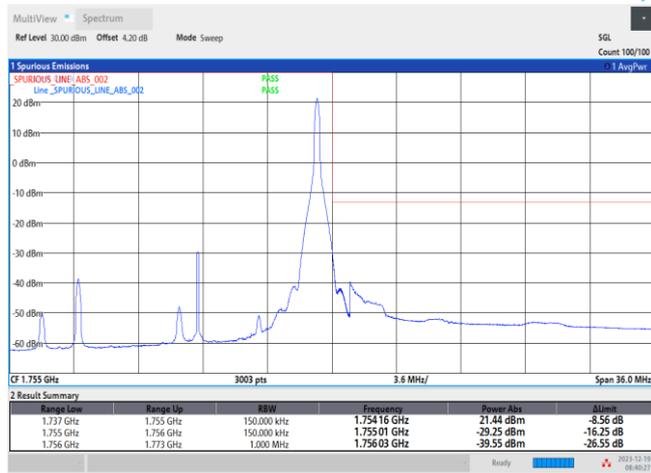


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Band4-15MHz-QPSK-20325-1RB#74



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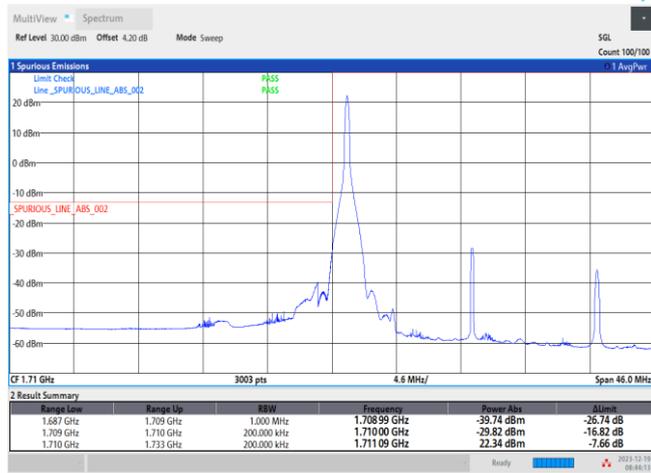


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Band4-20MHz-QPSK-20050-1RB#0



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



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



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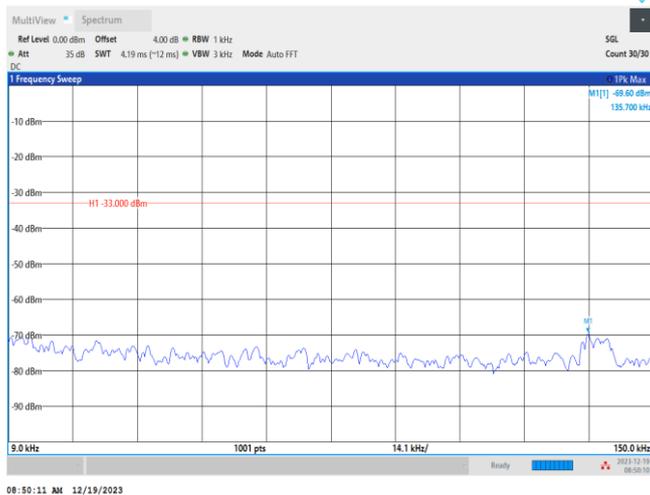
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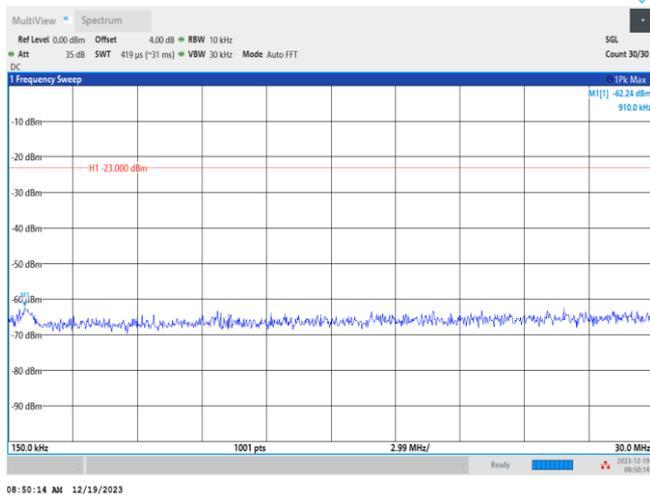
## Conducted Spurious Emission

### Test Graphs

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



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

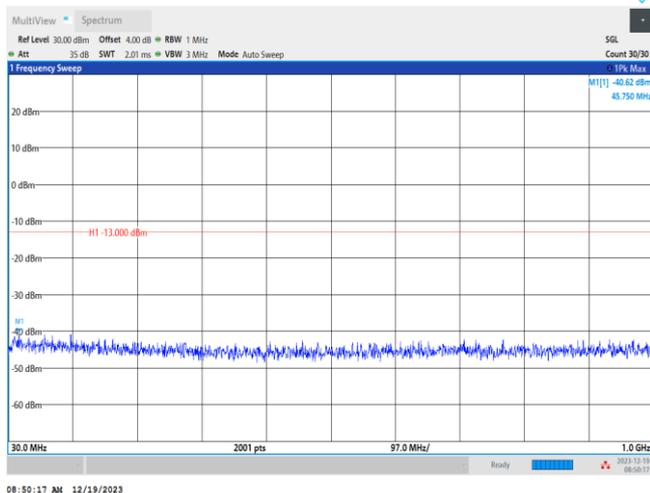


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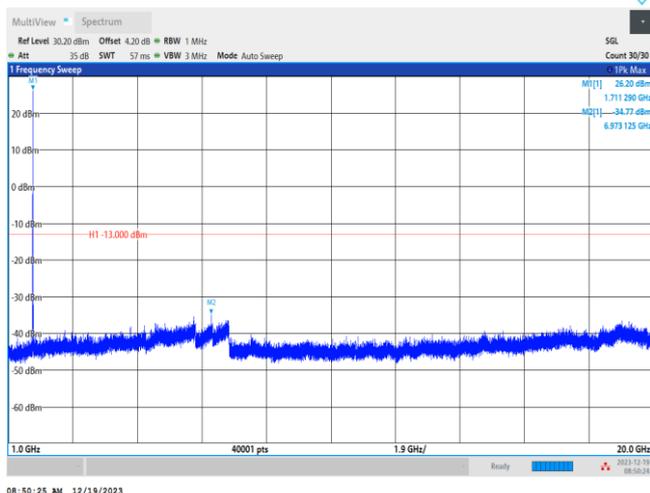
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



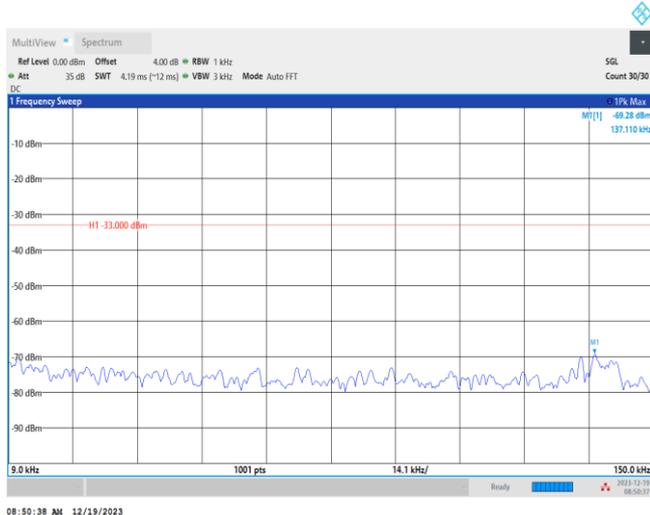
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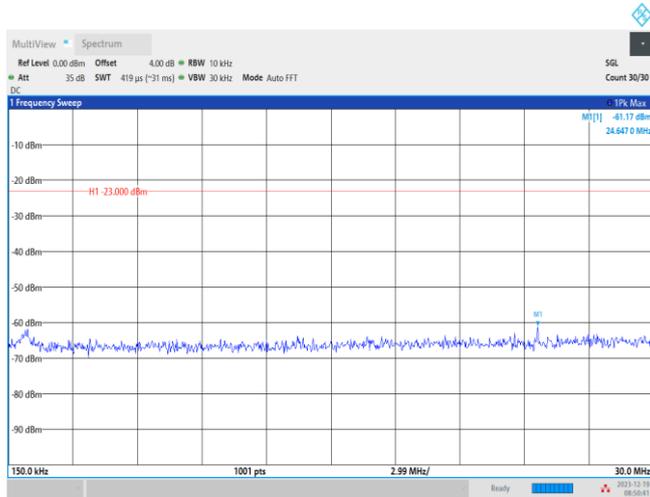
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



08:50:38 AM 12/19/2023

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



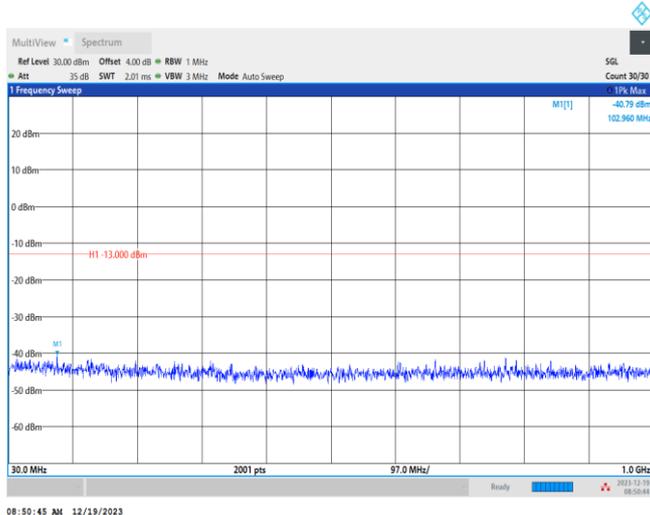
08:50:42 AM 12/19/2023



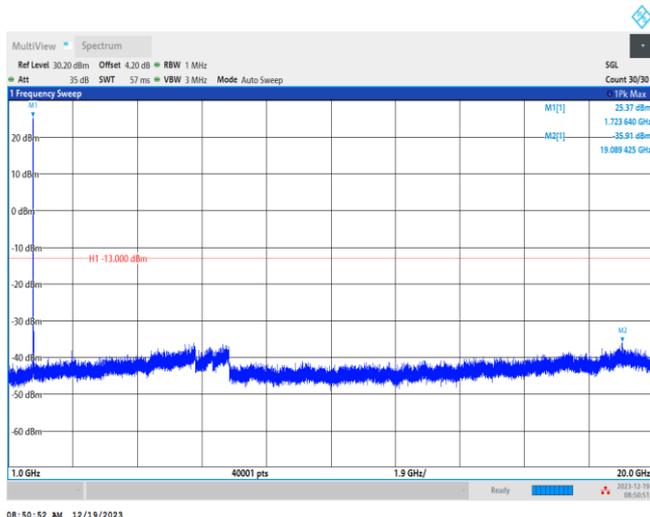
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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

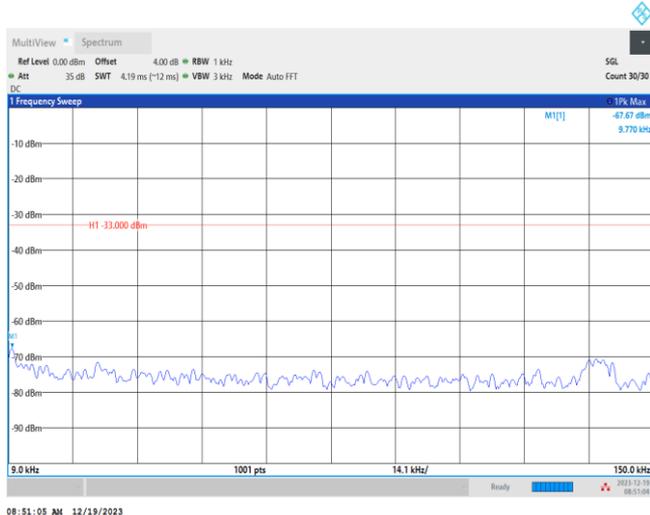


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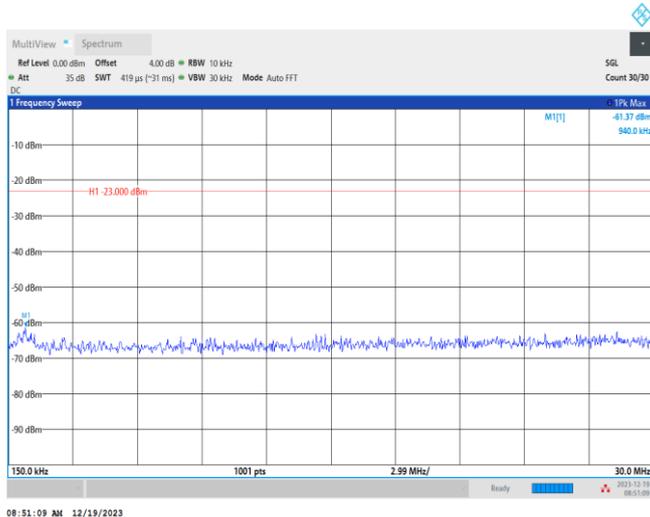
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



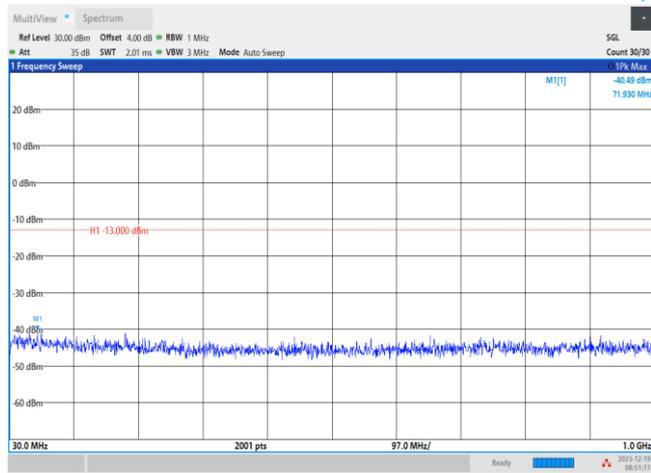
Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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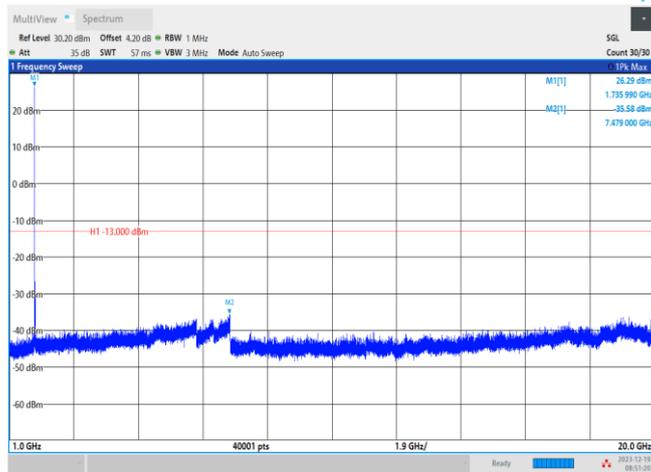
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



08:51:12 AM 12/19/2023

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



08:51:20 AM 12/19/2023



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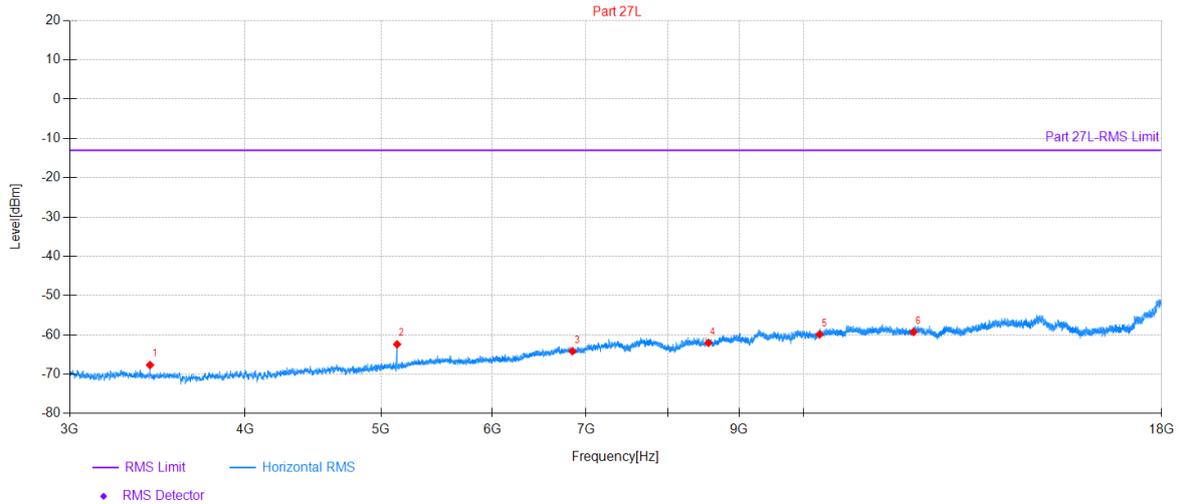
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## Field Strength of Spurious Radiation

Test Band = LTE Band 4\_ TM1

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	47.31	-48.38	28.67	-67.66	-13.00	54.66	Horizontal
2	5133.27	48.90	-47.84	31.82	-62.38	-13.00	49.38	Horizontal
3	6844.36	42.69	-46.82	35.26	-64.13	-13.00	51.13	Horizontal
4	8555.45	40.38	-44.11	36.98	-62.01	-13.00	49.01	Horizontal
5	10266.54	38.13	-41.48	38.74	-59.87	-13.00	46.87	Horizontal
6	11977.63	36.35	-39.54	39.20	-59.25	-13.00	46.25	Horizontal



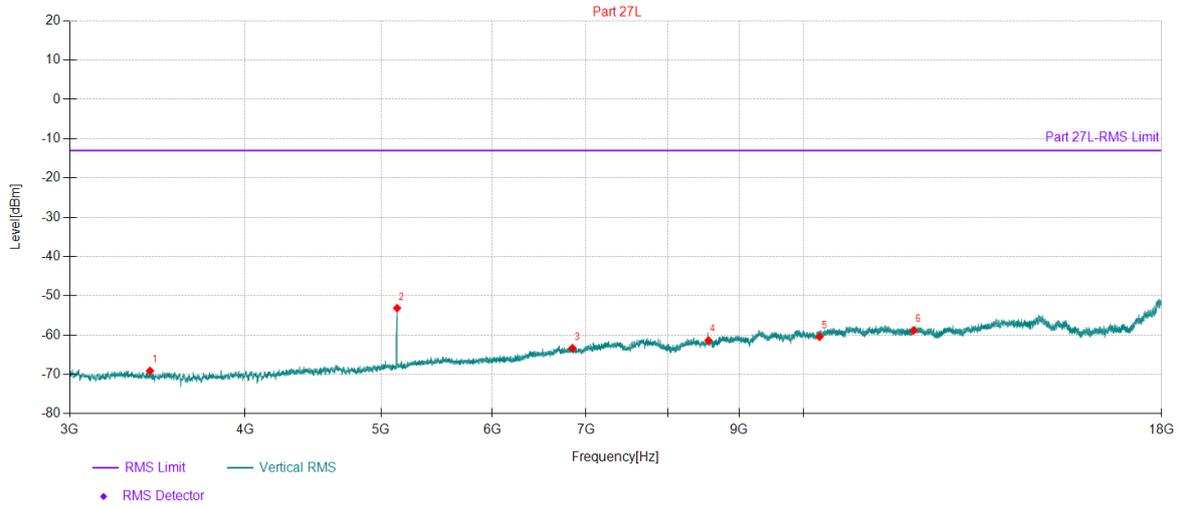
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**Test Band = LTE Band 4\_ TM1**  
**Test Channel = Low Channel**



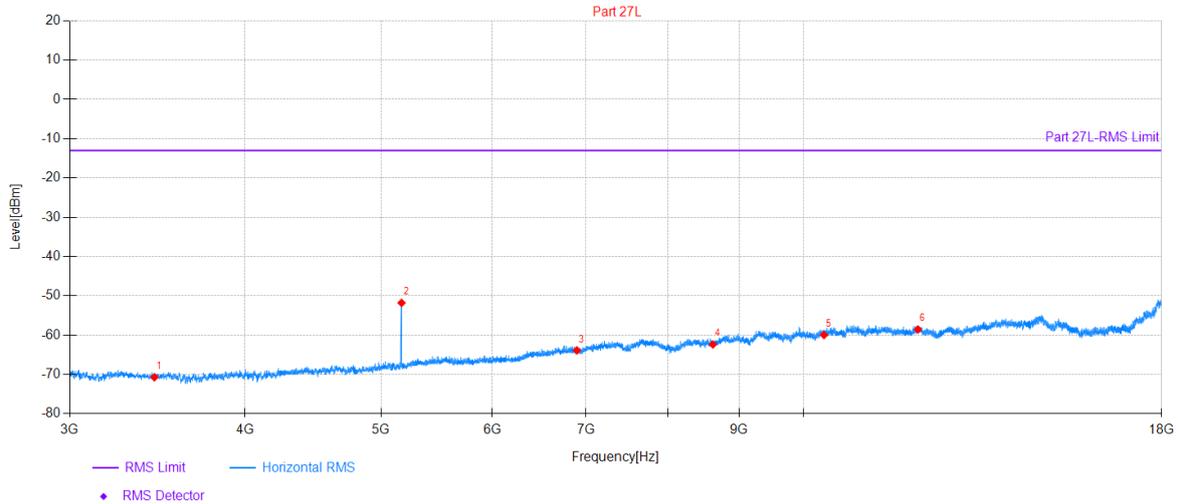
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	45.88	-48.38	28.67	-69.09	-13.00	56.09	Vertical
2	5133.27	58.16	-47.84	31.82	-53.12	-13.00	40.12	Vertical
3	6844.36	43.53	-46.82	35.26	-63.29	-13.00	50.29	Vertical
4	8555.45	41.06	-44.11	36.98	-61.33	-13.00	48.33	Vertical
5	10266.54	37.58	-41.48	38.74	-60.42	-13.00	47.42	Vertical
6	11977.63	36.81	-39.54	39.20	-58.79	-13.00	45.79	Vertical



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**Test Band = LTE Band 4\_ TM1**  
**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	44.24	-48.35	28.68	-70.69	-13.00	57.69	Horizontal
2	5170.77	59.44	-47.87	31.91	-51.78	-13.00	38.78	Horizontal
3	6894.36	42.76	-46.74	35.37	-63.87	-13.00	50.87	Horizontal
4	8617.95	39.83	-44.00	37.07	-62.36	-13.00	49.36	Horizontal
5	10341.54	37.68	-41.19	38.81	-59.96	-13.00	46.96	Horizontal
6	12065.13	37.12	-39.56	39.16	-58.54	-13.00	45.54	Horizontal

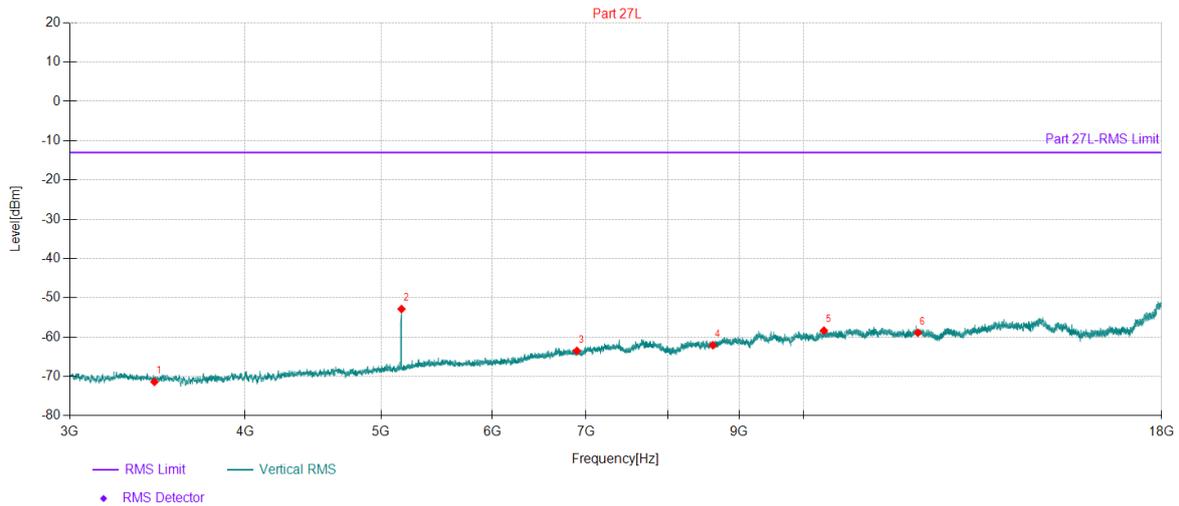


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**Test Band = LTE Band 4\_ TM1**

**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	43.55	-48.35	28.68	-71.38	-13.00	58.38	Vertical
2	5170.77	58.38	-47.87	31.91	-52.84	-13.00	39.84	Vertical
3	6894.36	43.16	-46.74	35.37	-63.47	-13.00	50.47	Vertical
4	8617.95	40.16	-44.00	37.07	-62.03	-13.00	49.03	Vertical
5	10341.54	39.31	-41.19	38.81	-58.33	-13.00	45.33	Vertical
6	12065.13	36.80	-39.56	39.16	-58.86	-13.00	45.86	Vertical



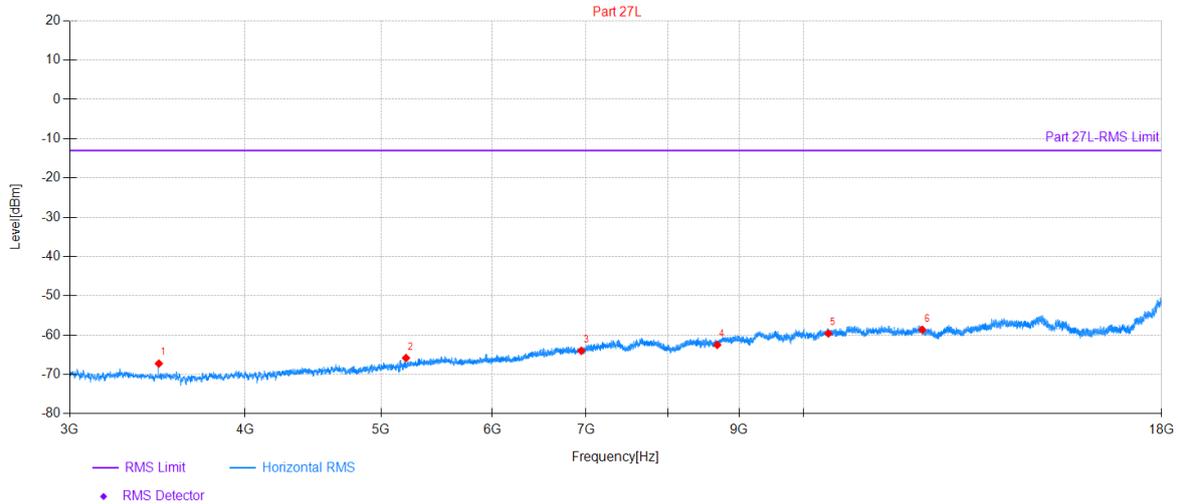
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 sgs.china@sgs.com

**Test Band = LTE Band 4\_ TM1**  
**Test Channel = High Channel**



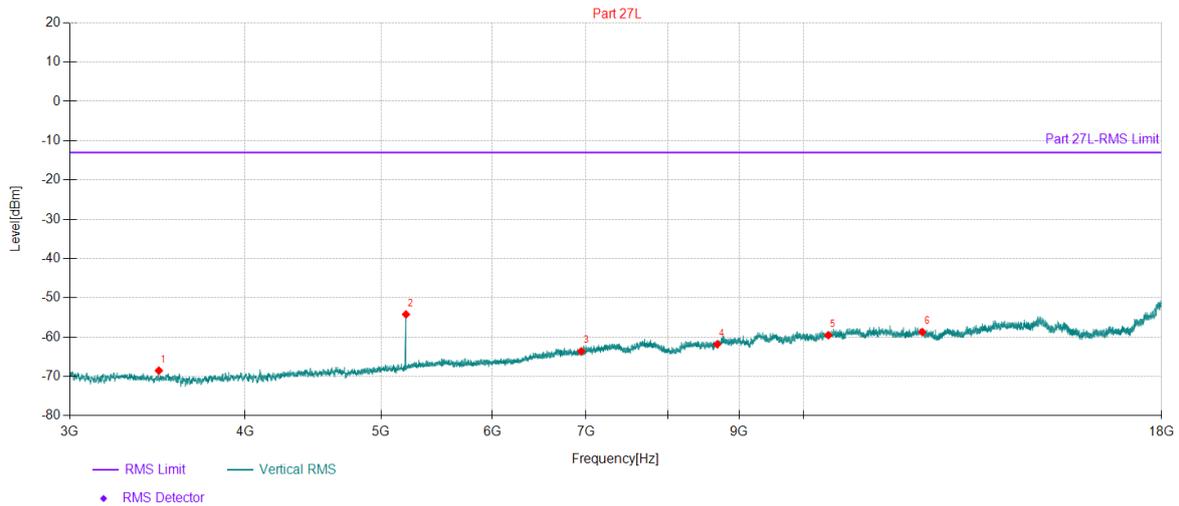
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	47.66	-48.32	28.69	-67.23	-13.00	54.23	Horizontal
2	5208.27	45.33	-47.88	32.00	-65.81	-13.00	52.81	Horizontal
3	6944.36	42.48	-46.67	35.48	-63.97	-13.00	50.97	Horizontal
4	8680.45	39.72	-44.09	37.15	-62.48	-13.00	49.48	Horizontal
5	10416.54	37.97	-41.14	38.88	-59.56	-13.00	46.56	Horizontal
6	12152.63	37.27	-39.73	39.11	-58.61	-13.00	45.61	Horizontal



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**Test Band = LTE Band 4\_ TM1**  
**Test Channel = High Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	46.38	-48.32	28.69	-68.51	-13.00	55.51	Vertical
2	5208.27	56.94	-47.88	32.00	-54.20	-13.00	41.20	Vertical
3	6944.36	42.86	-46.67	35.48	-63.59	-13.00	50.59	Vertical
4	8680.45	40.40	-44.09	37.15	-61.80	-13.00	48.80	Vertical
5	10416.54	38.02	-41.14	38.88	-59.51	-13.00	46.51	Vertical
6	12152.63	37.19	-39.73	39.11	-58.69	-13.00	45.69	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	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-2.30	-0.001328	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.40	0.000231	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.40	-0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.20	-0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	0.50	0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-0.70	-0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.90	-0.001097	PASS

---End of Attachment---



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