

# Appendix B.7

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant0 (Antenna Gain: -3.4dBi)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.97	18.42	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.90	18.35	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.00	18.45	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.99	17.44	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.03	17.48	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.94	17.39	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.16	17.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.03	16.48	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.13	16.58	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.20	16.65	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.10	16.55	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	21.08	15.53	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.92	18.37	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.09	18.54	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.82	18.27	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.09	17.54	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.07	17.52	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.12	17.57	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.07	17.52	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.20	16.65	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.14	16.59	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.13	16.58	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.15	16.60	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.12	15.57	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.91	18.36	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.95	18.40	34.77	PASS



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Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23173	1RB#5	23.98	18.43	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.83	17.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.98	17.43	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.23	17.68	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.03	17.48	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.31	16.76	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.24	16.69	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.96	16.41	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.07	16.52	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.25	15.70	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.90	18.35	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#7	23.99	18.44	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.85	18.30	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.01	17.46	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.16	17.61	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#7	23.13	17.58	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.09	17.54	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.14	16.59	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.17	16.62	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#7	22.11	16.56	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.12	16.57	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.13	15.58	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.99	18.44	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#7	23.97	18.42	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.93	18.38	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.84	17.29	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.09	17.54	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#7	23.02	17.47	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.00	17.45	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.07	16.52	34.77	PASS



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Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	3MHz	64QAM	23095	1RB#0	22.14	16.59	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#7	22.13	16.58	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.08	16.53	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.08	15.53	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.83	18.28	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#7	23.87	18.32	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.88	18.33	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.03	17.48	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.99	17.44	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#7	23.05	17.50	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.00	17.45	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.10	16.55	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.09	16.54	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#7	22.14	16.59	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.06	16.51	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.17	15.62	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.95	18.40	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#13	23.93	18.38	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.95	18.40	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.95	17.40	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.09	17.54	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#13	23.01	17.46	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.03	17.48	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.08	16.53	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.07	16.52	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#13	22.07	16.52	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.14	16.59	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.16	15.61	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.97	18.42	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#13	23.86	18.31	34.77	PASS



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Band12	5MHz	QPSK	23095	1RB#24	23.82	18.27	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.93	17.38	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.04	17.49	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#13	23.00	17.45	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.00	17.45	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.15	16.60	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.16	16.61	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#13	22.15	16.60	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.04	16.49	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.20	15.65	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.82	18.27	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#13	23.78	18.23	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.91	18.36	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.99	17.44	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.98	17.43	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#13	23.10	17.55	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.95	17.40	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.00	16.45	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.07	16.52	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#13	22.17	16.62	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.07	16.52	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.09	15.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.95	18.40	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#25	23.84	18.29	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.92	18.37	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.95	17.40	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.07	17.52	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#25	23.07	17.52	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.98	17.43	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.07	16.52	34.77	PASS



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Band12	10MHz	64QAM	23060	1RB#0	22.07	16.52	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#25	22.01	16.46	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.09	16.54	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.16	15.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.16	18.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#25	23.94	18.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.95	18.40	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.98	17.43	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.06	17.51	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#25	22.98	17.43	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.00	17.45	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.07	16.52	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.10	16.55	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#25	22.11	16.56	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.11	16.56	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.21	15.66	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.99	18.44	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#25	23.89	18.34	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.83	18.28	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.03	17.48	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.97	17.42	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#25	22.98	17.43	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.98	17.43	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.14	16.59	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.01	16.46	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#25	22.05	16.50	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.13	16.58	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.25	15.70	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.70	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.60	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.26	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.44	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.52	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.64	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.86	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.84	13	PASS



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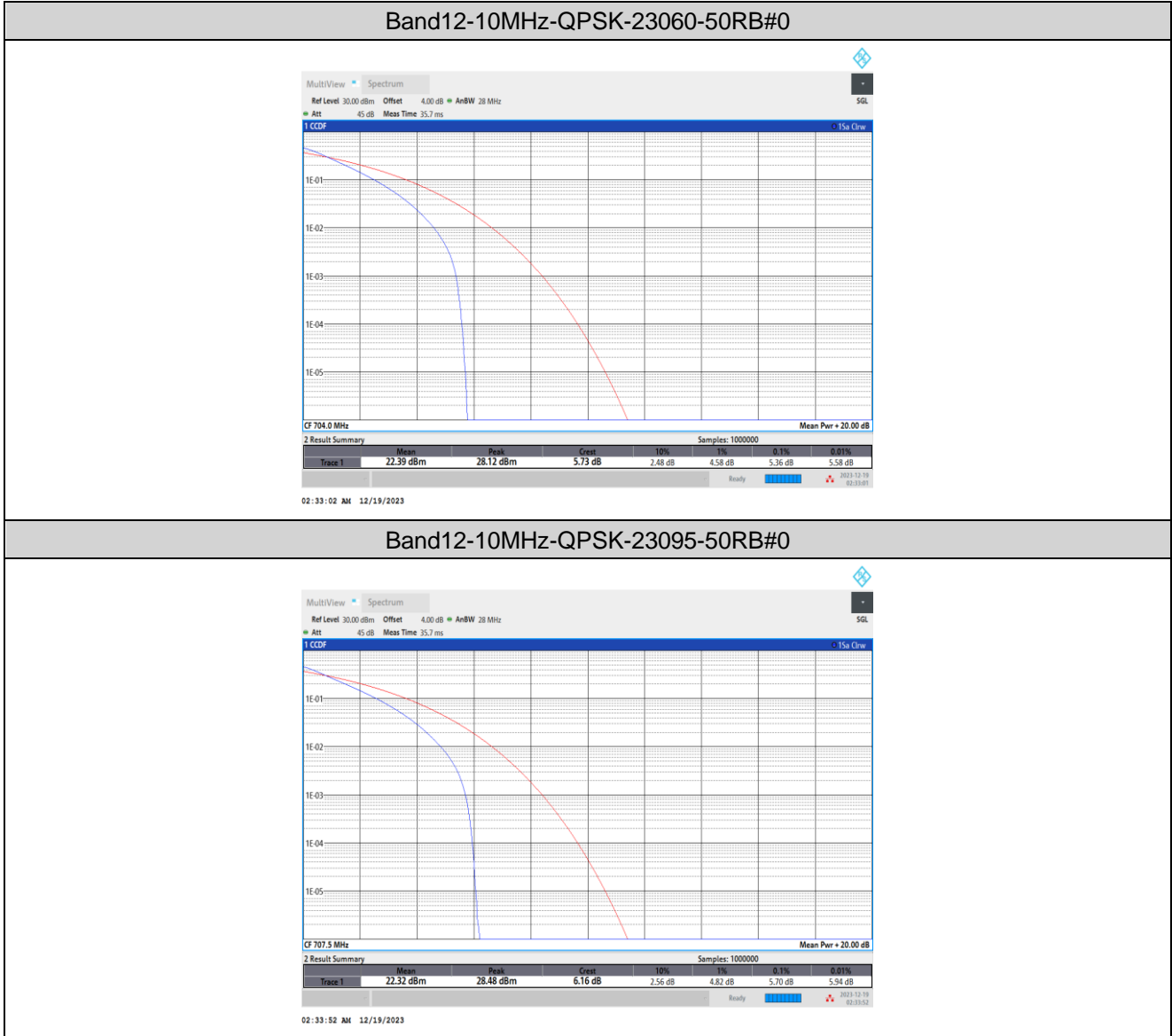
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Test Graphs



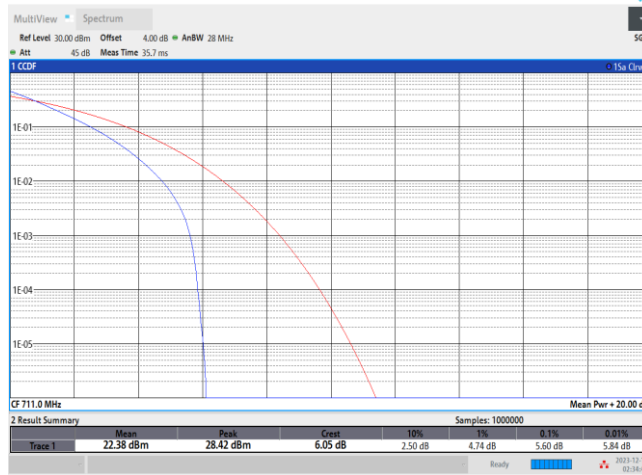
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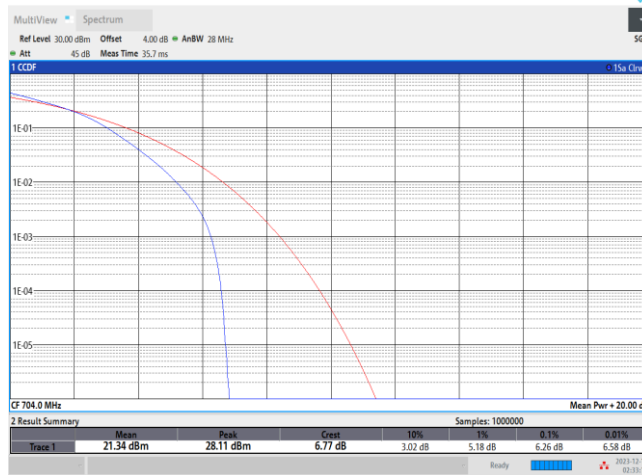


Band12-10MHz-QPSK-23130-50RB#0



02:34:43 AM 12/19/2023

Band12-10MHz-16QAM-23060-50RB#0



02:33:18 AM 12/19/2023

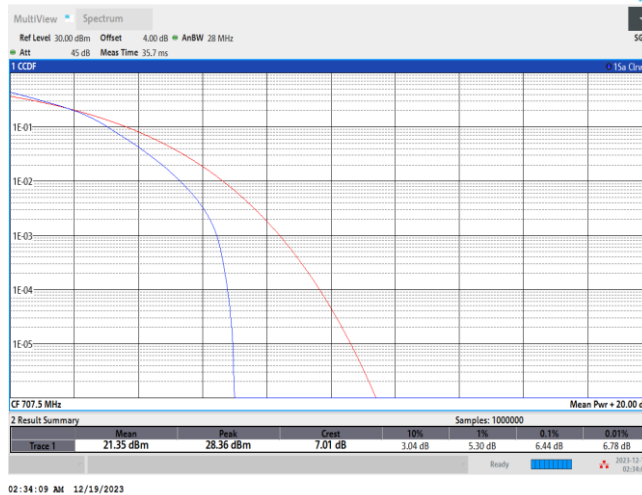


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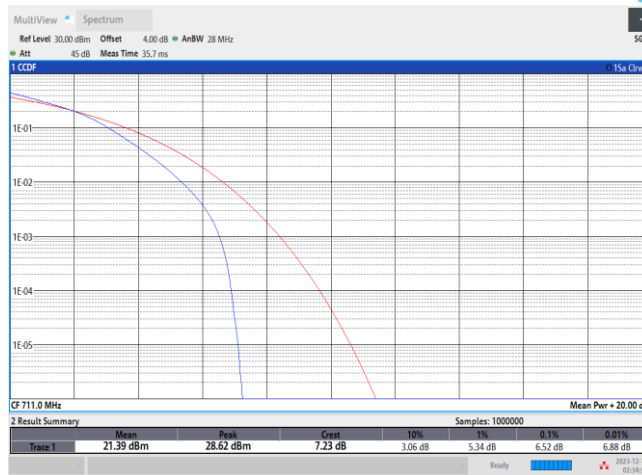
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Band12-10MHz-16QAM-23095-50RB#0



02:34:09 AM 12/19/2023

Band12-10MHz-16QAM-23130-50RB#0



02:34:59 AM 12/19/2023

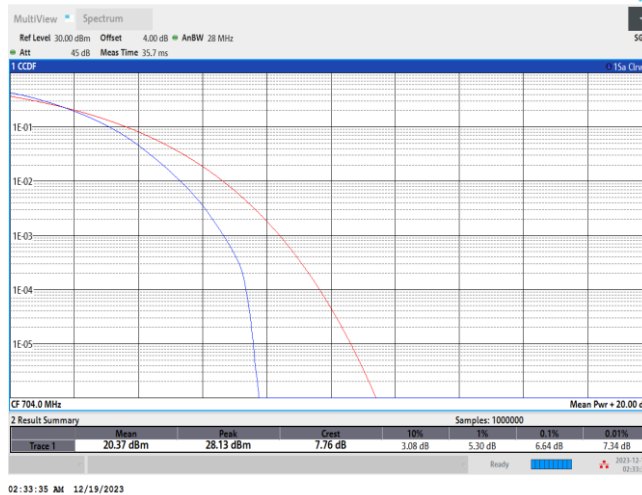


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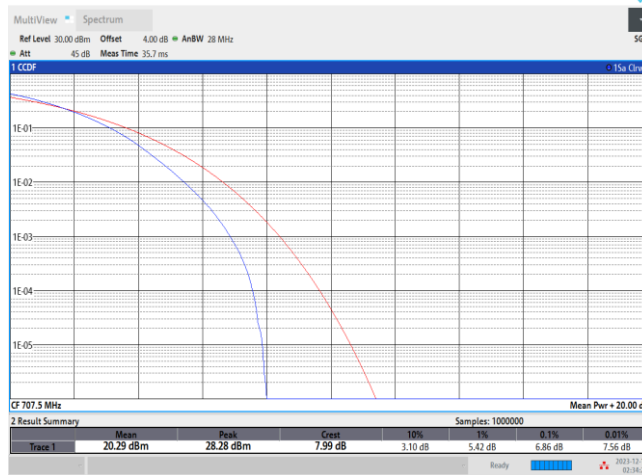
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Band12-10MHz-64QAM-23060-50RB#0



02:33:35 AM 12/19/2023

Band12-10MHz-64QAM-23095-50RB#0



02:34:26 AM 12/19/2023

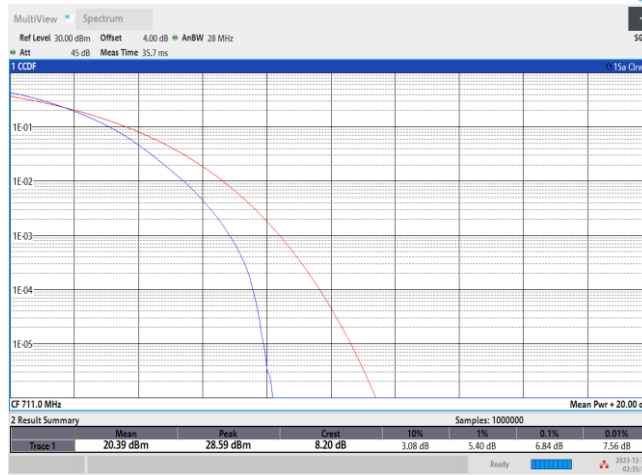


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Band12-10MHz-64QAM-23130-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6RB#0	1.105	1.37	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.116	1.41	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.112	1.41	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.699	3.04	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7	3.08	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.697	3.06	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.482	5.02	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.477	5.02	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.482	5.04	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.942	9.96	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.949	9.84	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.946	9.80	PASS



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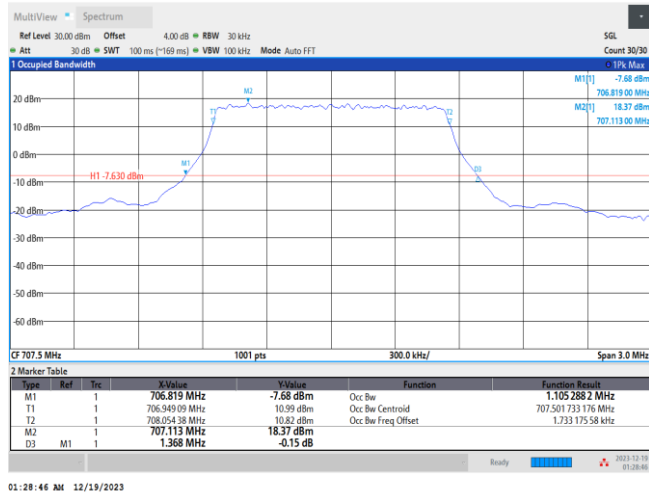
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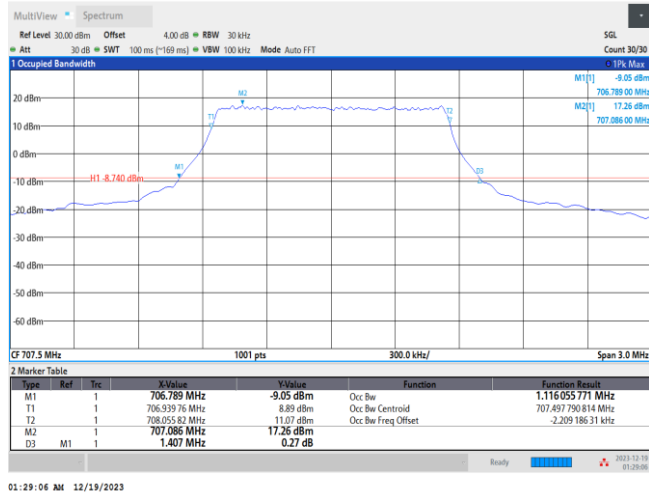
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Test Graphs

Band12-1.4MHz-QPSK-23095-6RB#0



Band12-1.4MHz-16QAM-23095-6RB#0

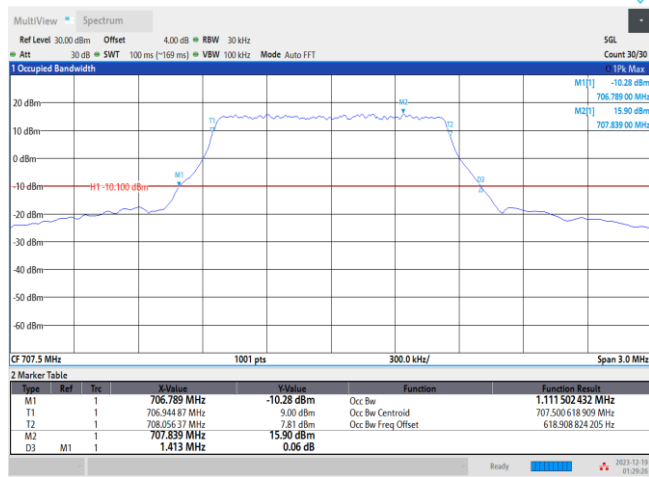


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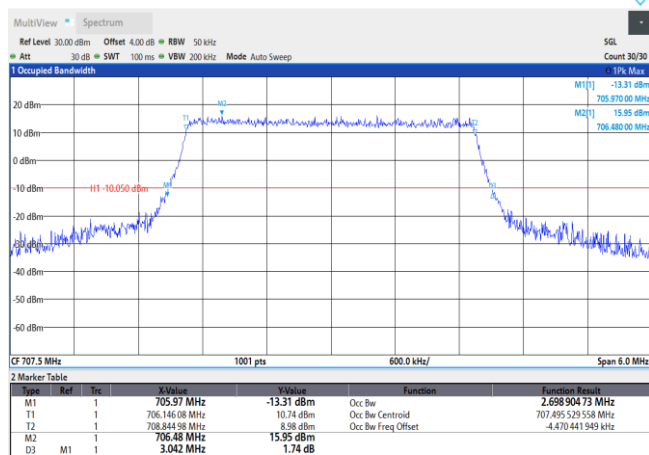
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Band12-1.4MHz-64QAM-23095-6RB#0



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Band12-3MHz-QPSK-23095-15RB#0



01:41:14 AM 12/19/2023

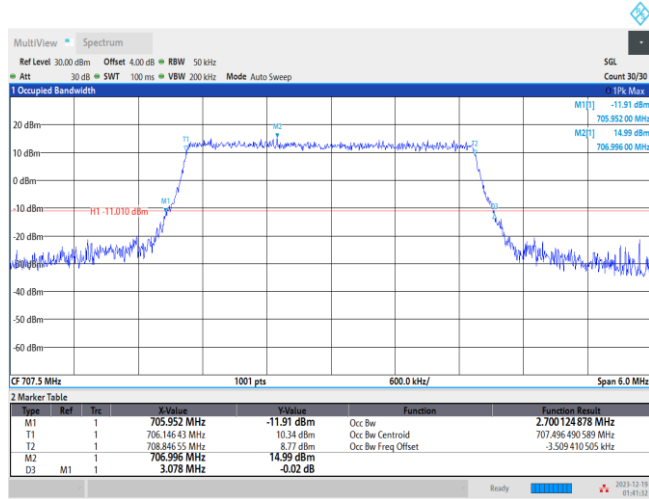


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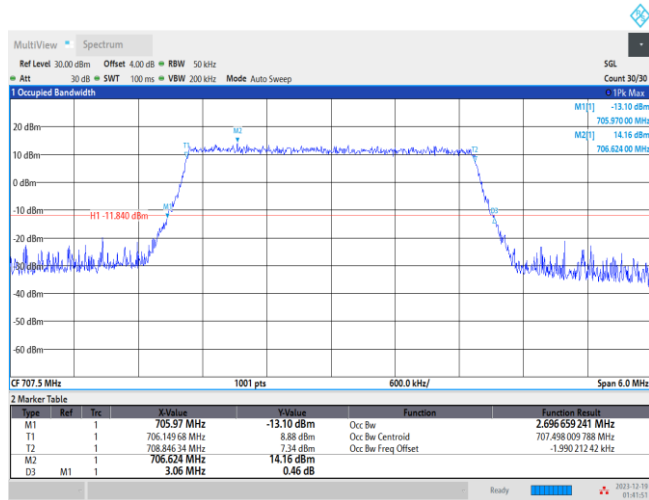
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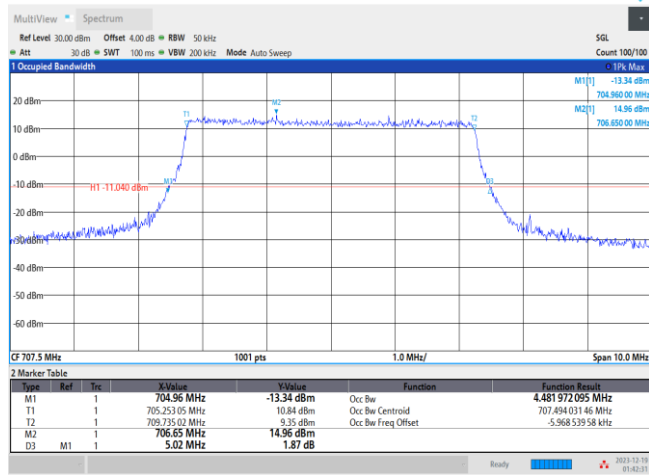
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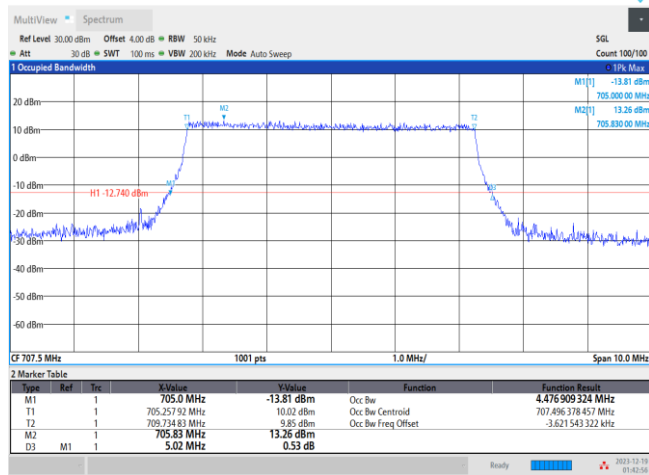


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Band12-5MHz-16QAM-23095-25RB#0



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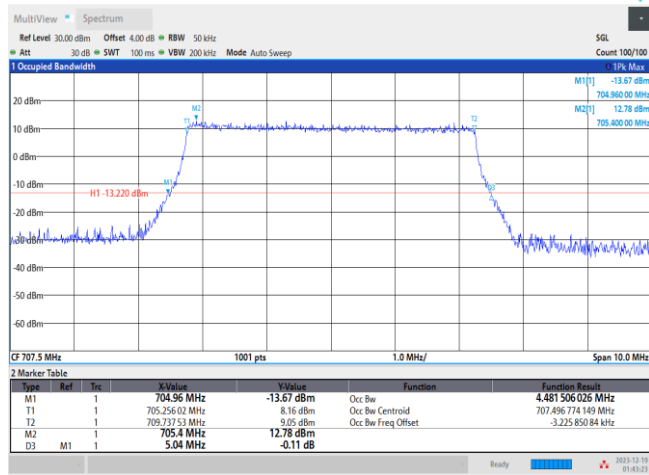


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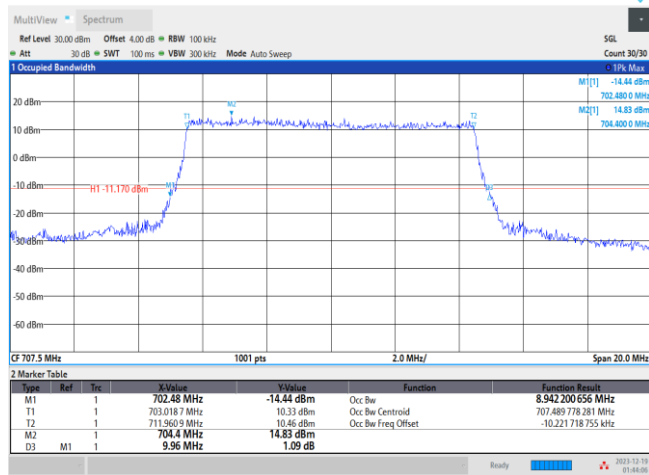
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01:44:07 AM 12/19/2023

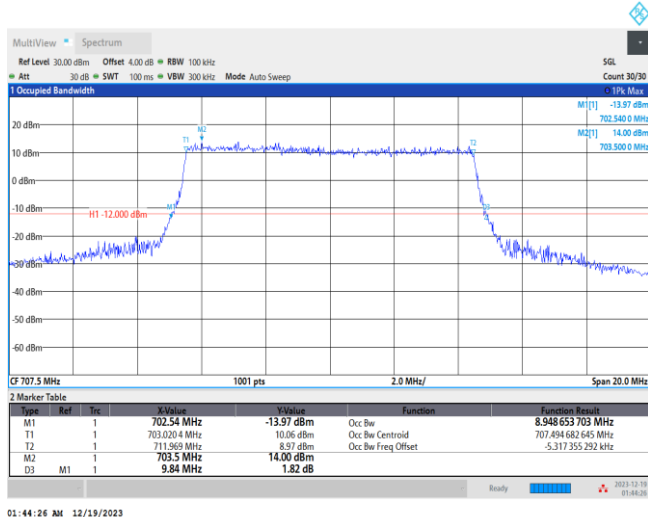


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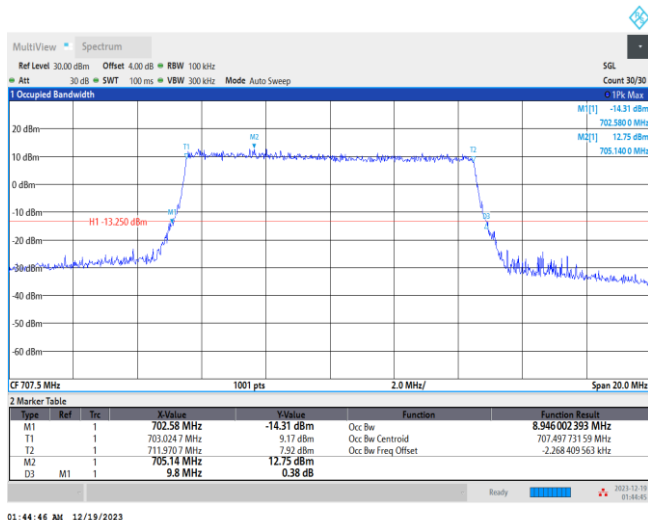
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Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-64QAM-23095-50RB#0



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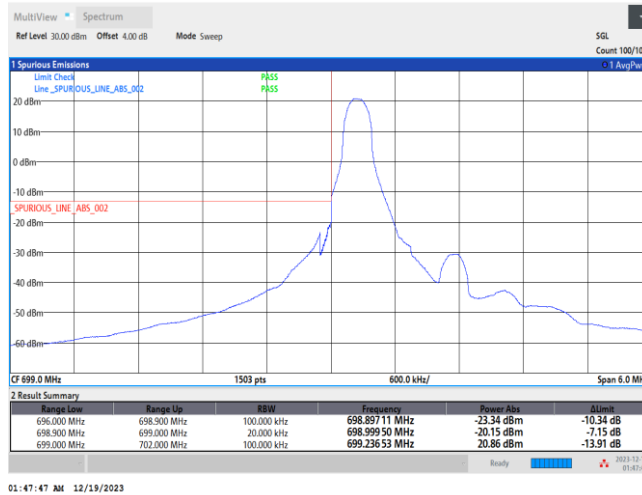
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## Band Edge

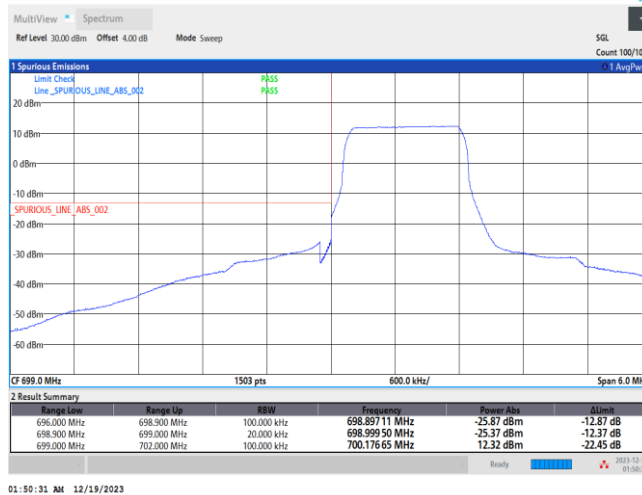
## Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



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Band12-1.4MHz-QPSK-23017-6RB#0



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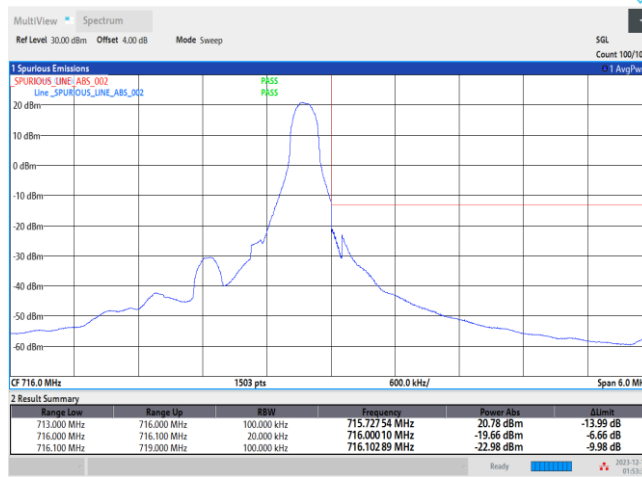


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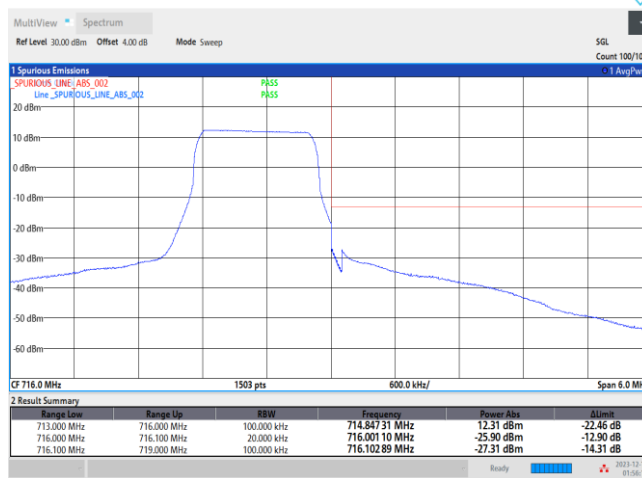
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Band12-1.4MHz-QPSK-23173-1RB#5



01:53:33 AM 12/19/2023

Band12-1.4MHz-QPSK-23173-6RB#0



01:56:17 AM 12/19/2023

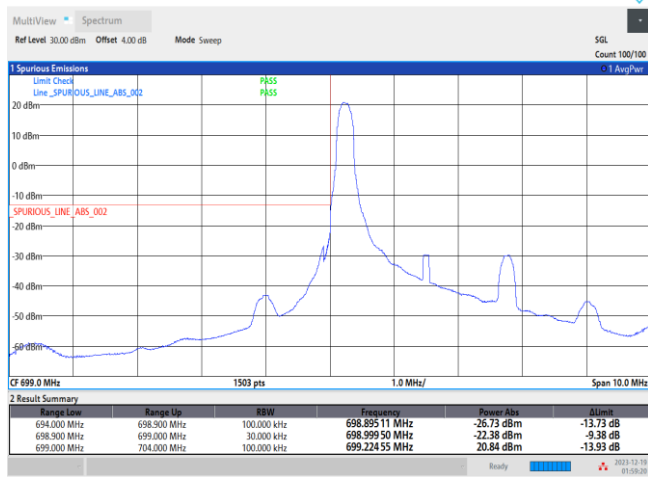


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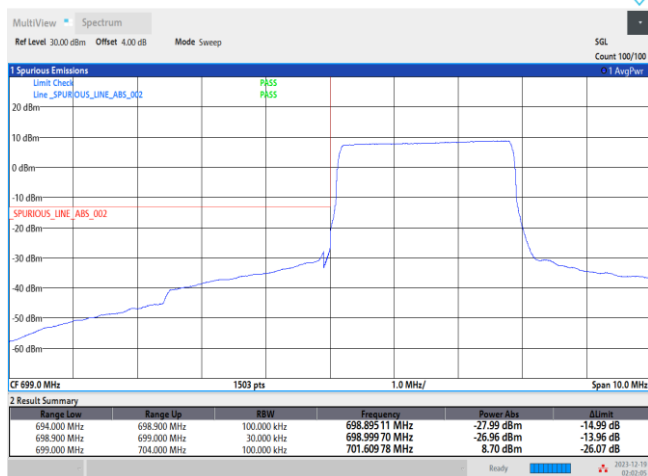
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Band12-3MHz-QPSK-23025-1RB#0



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Band12-3MHz-QPSK-23025-15RB#0



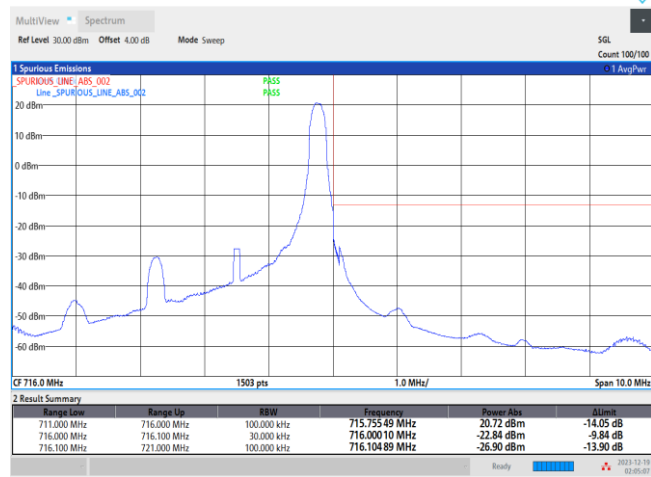
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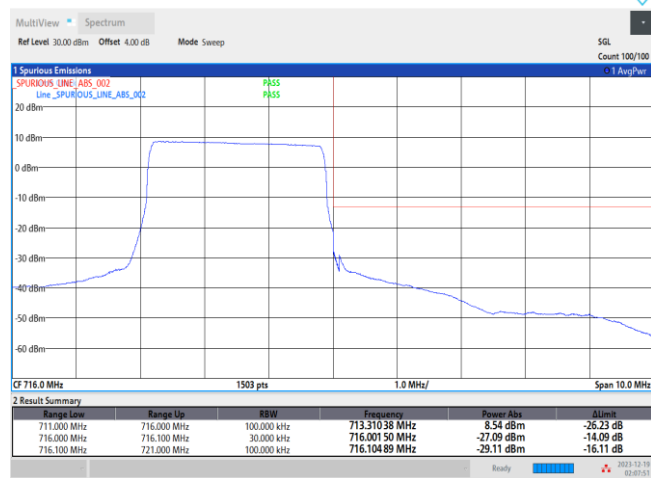
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Band12-3MHz-QPSK-23165-1RB#14



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Band12-3MHz-QPSK-23165-15RB#0



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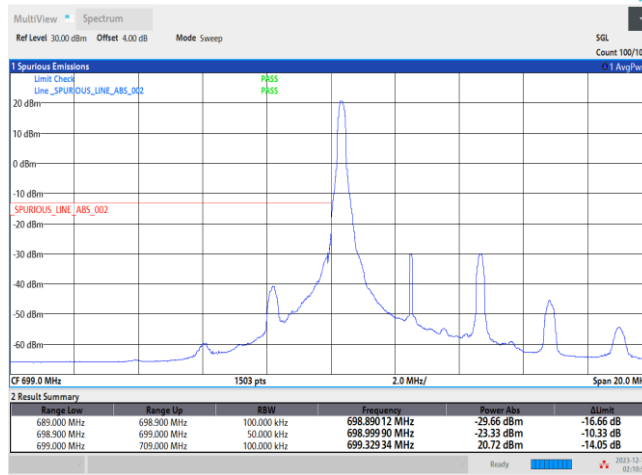


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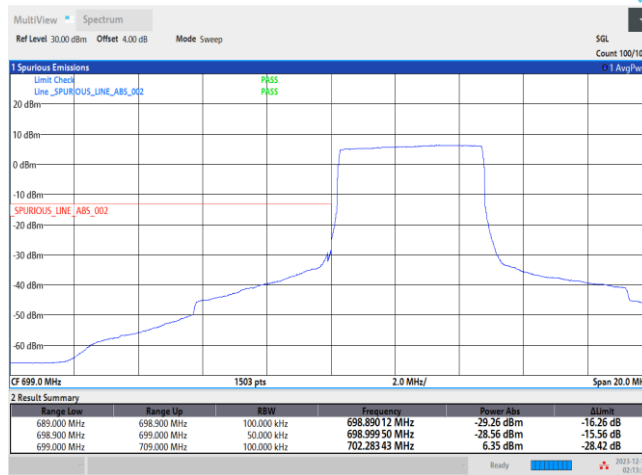
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Band12-5MHz-QPSK-23035-1RB#0



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Band12-5MHz-QPSK-23035-25RB#0



02:13:39 AM 12/19/2023



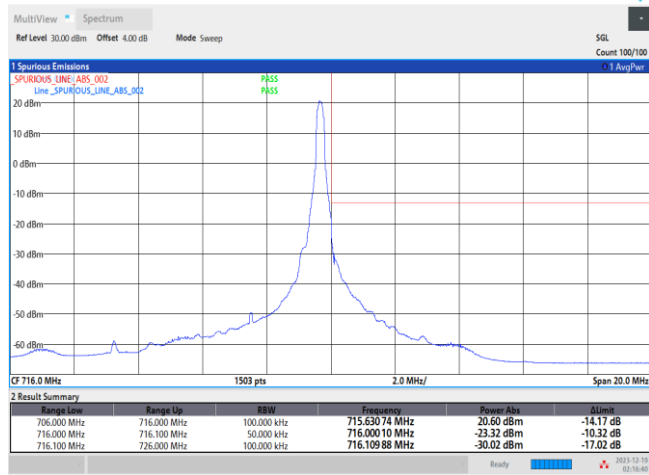
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Band12-5MHz-QPSK-23155-1RB#24



02:16:41 AM 12/19/2023

Band12-5MHz-QPSK-23155-25RB#0



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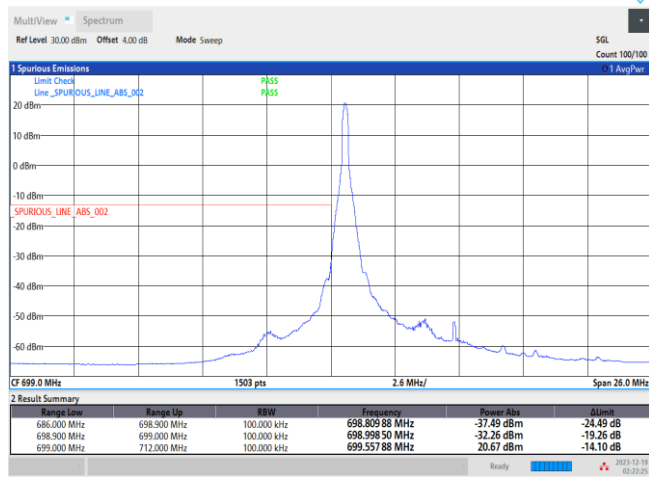


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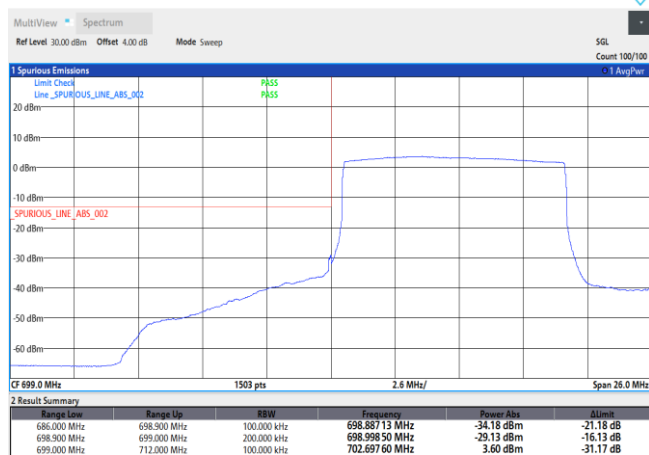
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Band12-10MHz-QPSK-23060-1RB#0



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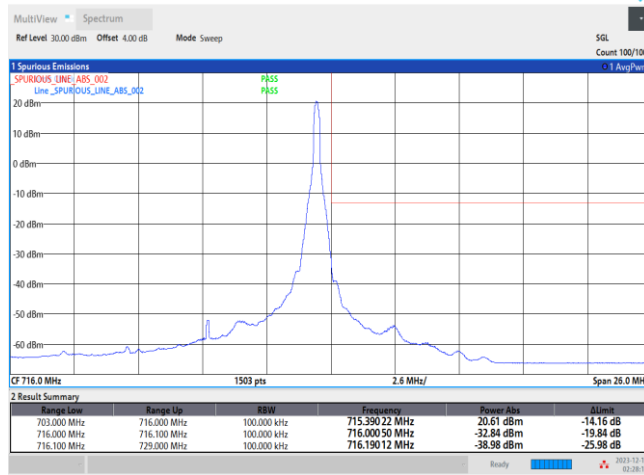
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Band12-10MHz-QPSK-23130-1RB#49



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Band12-10MHz-QPSK-23130-50RB#0



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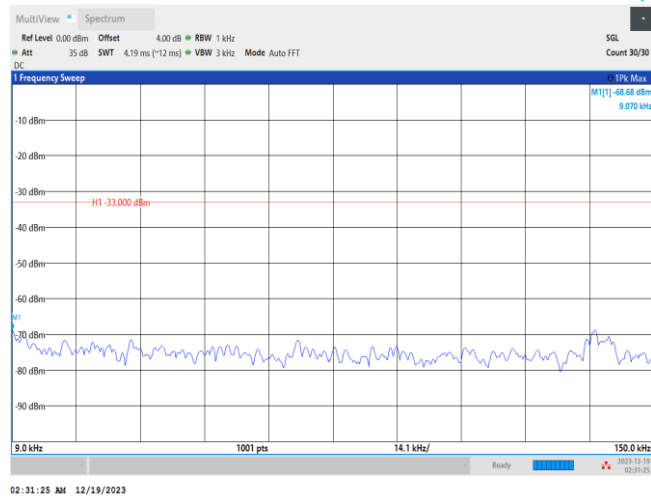
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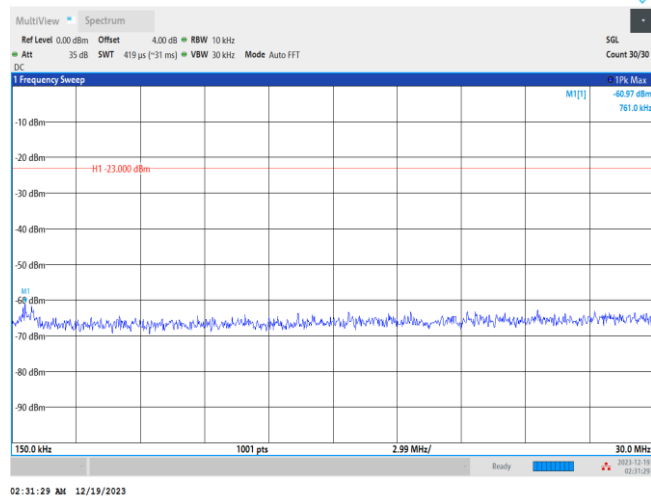
## Conducted Spurious Emission

### Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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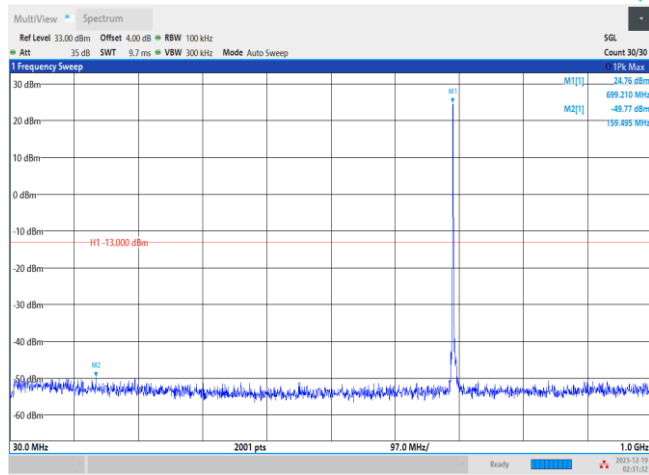
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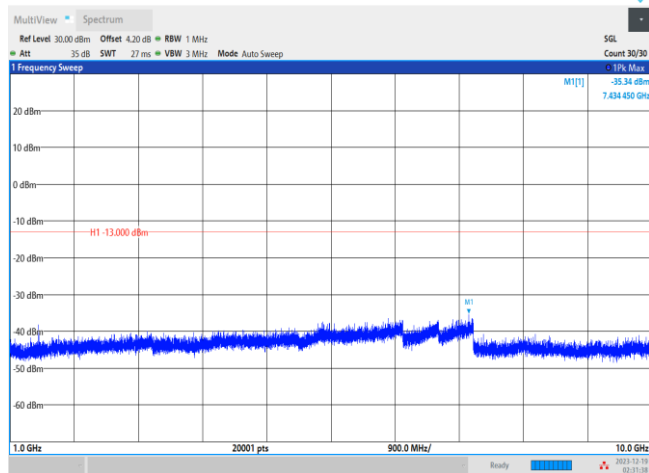
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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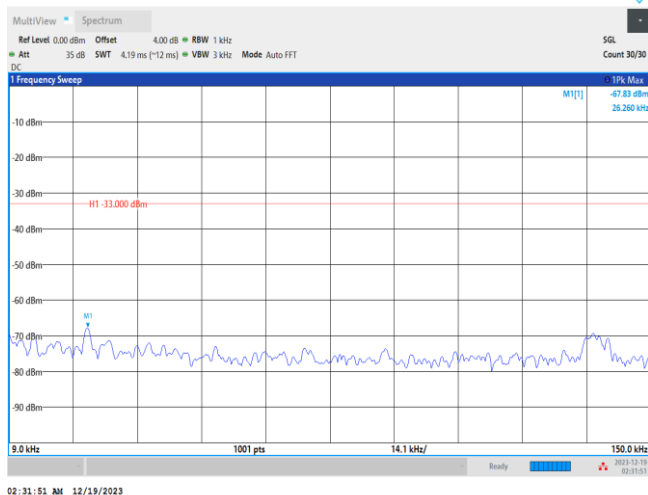


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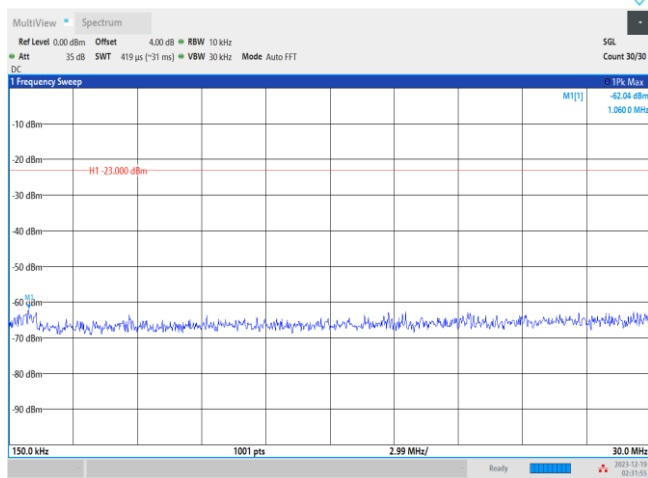
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



02:31:55 AM 12/19/2023

Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



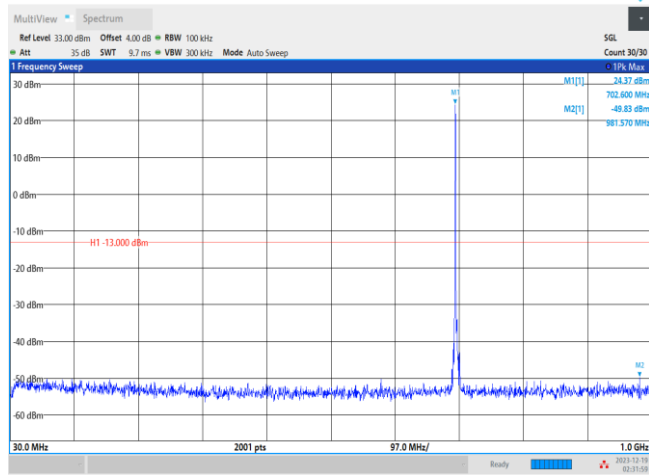
02:31:55 AM 12/19/2023



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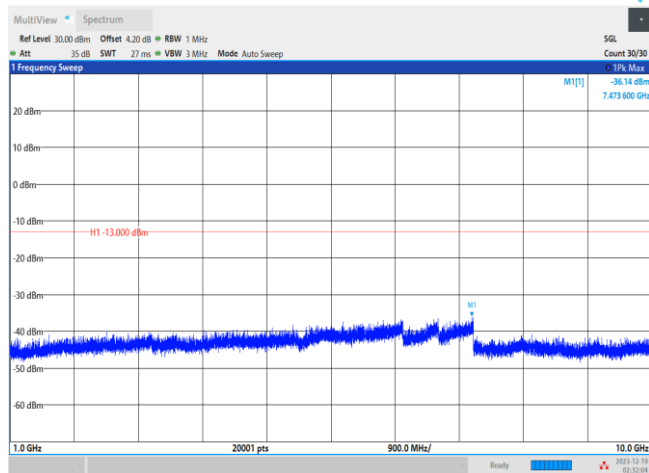
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn  
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



02:31:59 AM 12/19/2023

Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



02:32:04 AM 12/19/2023

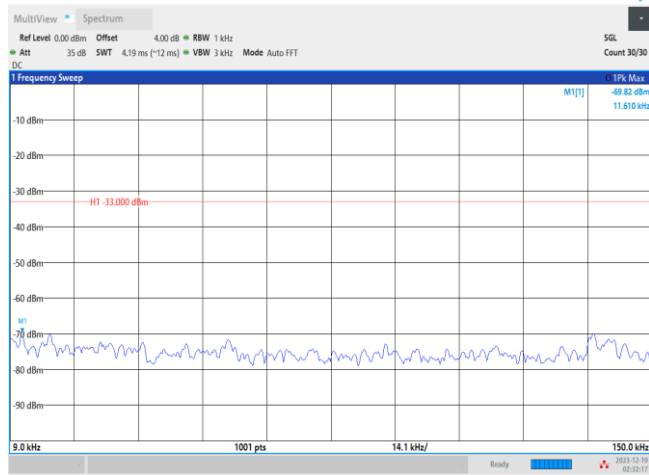


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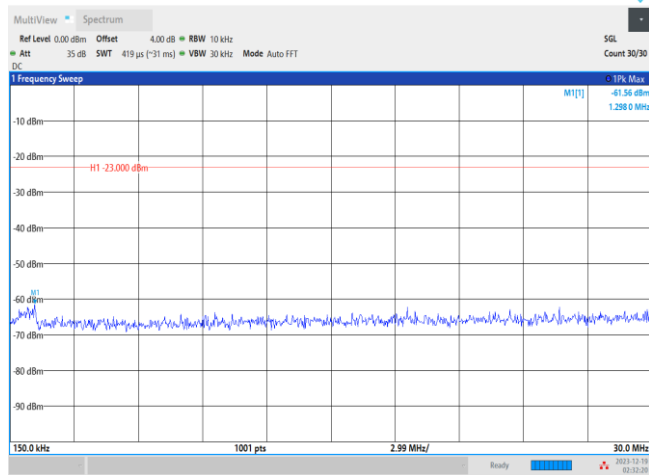
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



02:32:17 AM 12/19/2023

Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



02:32:21 AM 12/19/2023

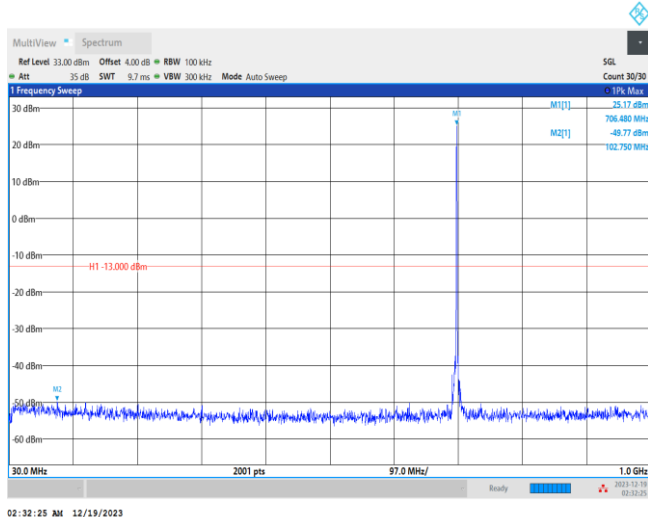


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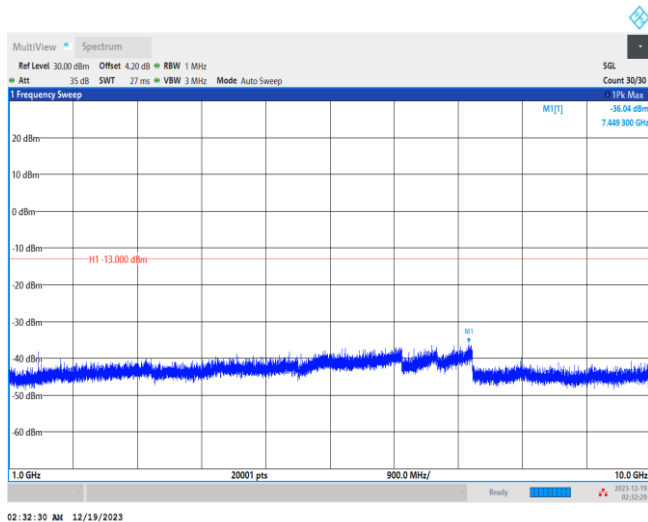
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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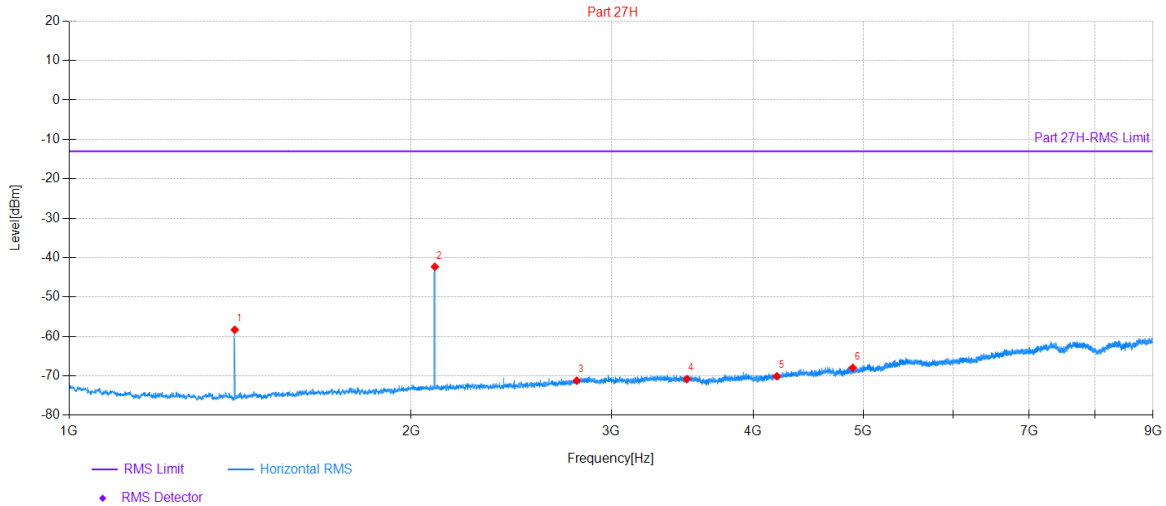
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## Field Strength of Spurious Radiation

Test Band = LTE Band 12\_ 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	1399	62.67	-50.01	24.30	-58.30	-13.00	45.30	Horizontal
2	2098.77	75.57	-49.46	26.82	-42.33	-13.00	29.33	Horizontal
3	2798.36	44.71	-48.68	28.02	-71.22	-13.00	58.22	Horizontal
4	3497.95	44.19	-48.44	28.70	-70.81	-13.00	57.81	Horizontal
5	4197.54	43.75	-48.36	29.76	-70.11	-13.00	57.11	Horizontal
6	4897.13	44.21	-48.17	31.25	-67.96	-13.00	54.96	Horizontal

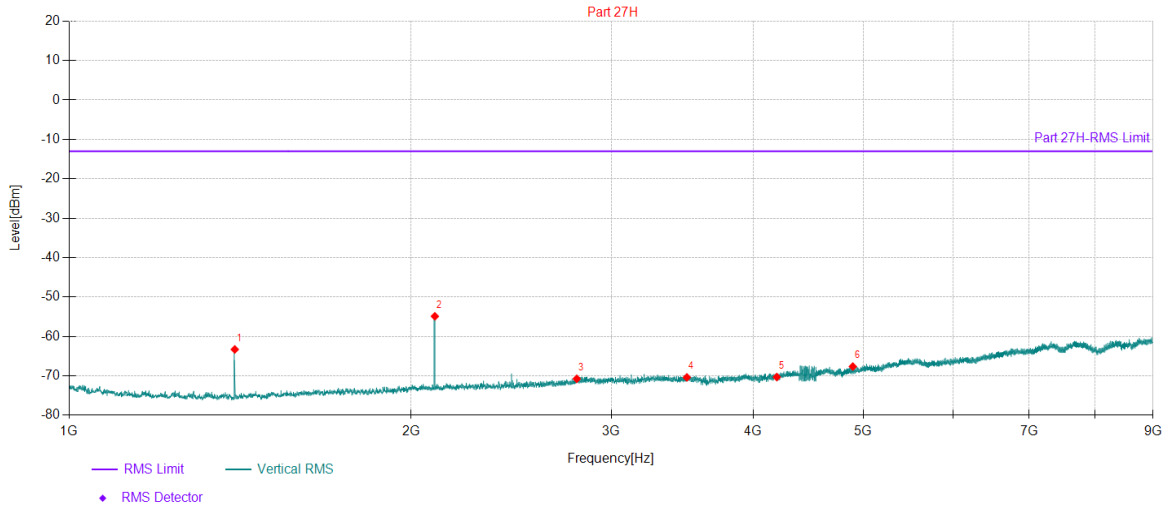


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**Test Band = LTE Band 12\_TM1**  
**Test Channel = Low Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399	57.68	-50.01	24.30	-63.29	-13.00	50.29	Vertical
2	2098.77	63.01	-49.46	26.82	-54.89	-13.00	41.89	Vertical
3	2798.36	45.18	-48.68	28.02	-70.75	-13.00	57.75	Vertical
4	3497.95	44.62	-48.44	28.70	-70.38	-13.00	57.38	Vertical
5	4197.54	43.56	-48.36	29.76	-70.30	-13.00	57.30	Vertical
6	4897.13	44.53	-48.17	31.25	-67.64	-13.00	54.64	Vertical

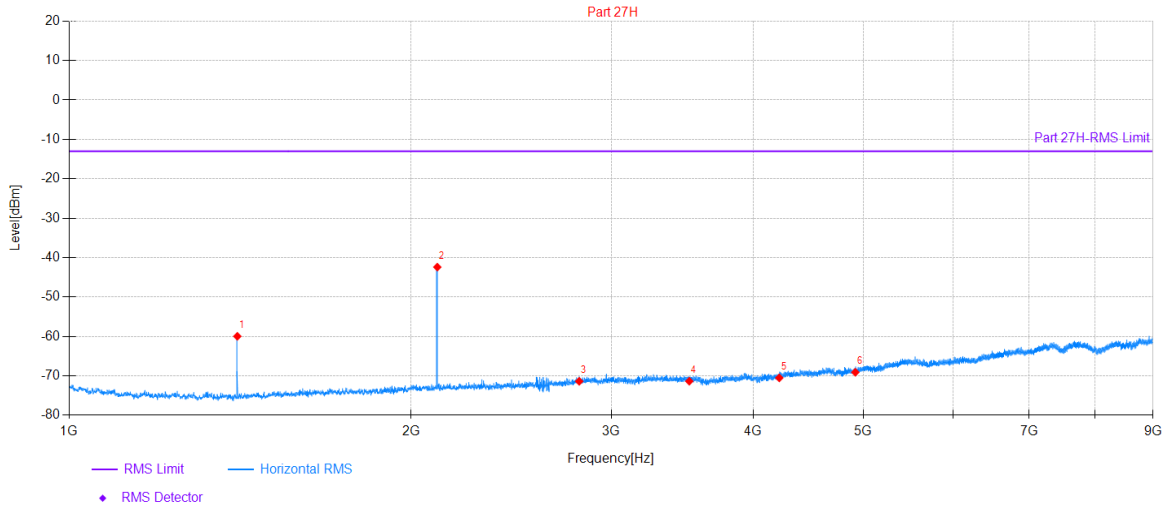


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Test Band = LTE Band 12\_ TM1

Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	60.96	-50.00	24.33	-59.97	-13.00	46.97	Horizontal
2	2109.27	75.48	-49.46	26.83	-42.41	-13.00	29.41	Horizontal
3	2812.36	44.52	-48.69	28.05	-71.38	-13.00	58.38	Horizontal
4	3515.45	43.62	-48.44	28.72	-71.36	-13.00	58.36	Horizontal
5	4218.54	43.25	-48.30	29.79	-70.51	-13.00	57.51	Horizontal
6	4921.63	42.98	-48.12	31.31	-69.09	-13.00	56.09	Horizontal



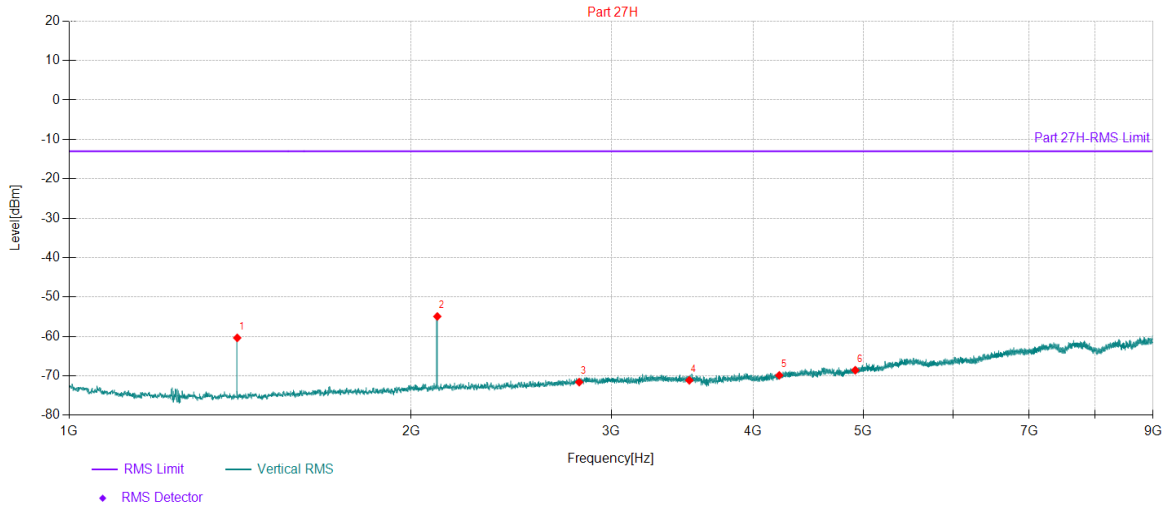
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Test Band = LTE Band 12\_ TM1

Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406	60.58	-50.00	24.32	-60.36	-13.00	47.36	Vertical
2	2109.27	62.96	-49.46	26.83	-54.93	-13.00	41.93	Vertical
3	2812.36	44.31	-48.69	28.05	-71.59	-13.00	58.59	Vertical
4	3515.45	43.85	-48.44	28.72	-71.13	-13.00	58.13	Vertical
5	4218.54	43.89	-48.30	29.79	-69.87	-13.00	56.87	Vertical
6	4921.63	43.50	-48.12	31.31	-68.57	-13.00	55.57	Vertical



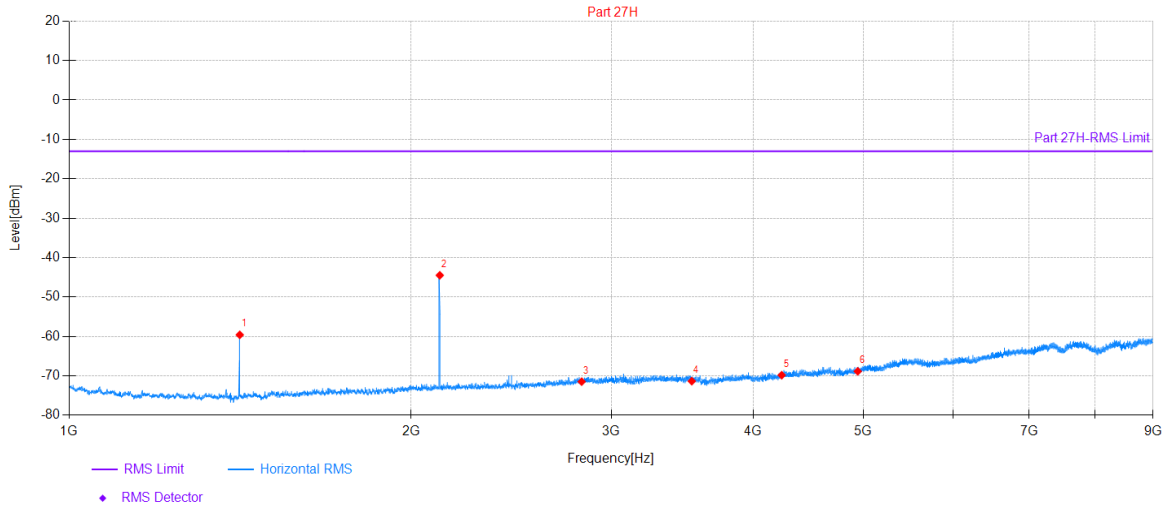
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**Test Band = LTE Band 12\_ TM1**

**Test Channel = High Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	61.29	-49.99	24.35	-59.60	-13.00	46.60	Horizontal
2	2119.77	73.40	-49.47	26.84	-44.48	-13.00	31.48	Horizontal
3	2826.36	44.41	-48.71	28.08	-71.47	-13.00	58.47	Horizontal
4	3532.95	43.62	-48.45	28.75	-71.34	-13.00	58.34	Horizontal
5	4239.54	43.84	-48.23	29.83	-69.82	-13.00	56.82	Horizontal
6	4946.13	43.11	-48.07	31.37	-68.85	-13.00	55.85	Horizontal



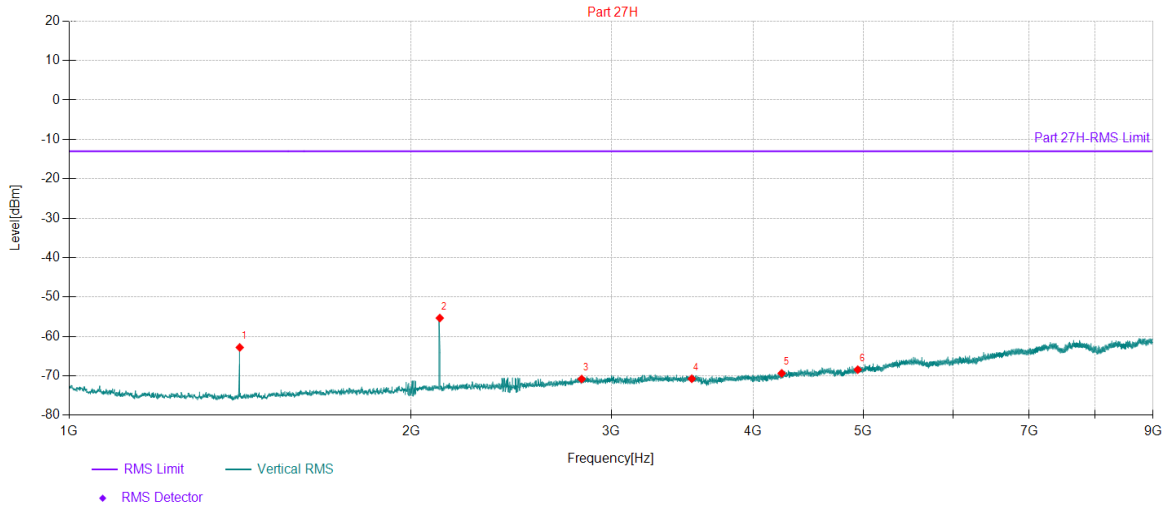
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**Test Band = LTE Band 12\_ TM1**

**Test Channel = High Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	58.09	-49.99	24.35	-62.80	-13.00	49.80	Vertical
2	2119.77	62.55	-49.47	26.84	-55.33	-13.00	42.33	Vertical
3	2826.36	45.08	-48.71	28.08	-70.80	-13.00	57.80	Vertical
4	3532.95	44.22	-48.45	28.75	-70.74	-13.00	57.74	Vertical
5	4239.54	44.31	-48.23	29.83	-69.35	-13.00	56.35	Vertical
6	4946.13	43.53	-48.07	31.37	-68.43	-13.00	55.43	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
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	1.10	0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.80	-0.002544	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.70	0.000989	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-1.10	-0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.10	-0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.10	0.000141	PASS

---End of Attachment---



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