

# Appendix B.5

## 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	23.86	18.31	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.85	18.3	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.03	17.48	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.92	18.37	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.84	18.29	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.83	18.28	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.03	17.48	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.04	18.49	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.9	18.35	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.84	18.29	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.92	17.37	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.25	17.7	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.29	17.74	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.31	17.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.11	16.56	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.4	17.85	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.38	17.83	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.27	17.72	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.02	16.47	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.35	17.8	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.43	17.88	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.28	17.73	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.98	16.43	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.28	16.73	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.28	16.73	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#5	22.22	16.67	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	21.03	15.48	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.2	16.65	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.3	16.75	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.16	16.61	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.05	15.5	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.14	16.59	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.2	16.65	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.23	16.68	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.03	15.48	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.86	18.31	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.02	18.47	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.86	18.31	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.08	17.53	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.87	18.32	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.93	18.38	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.86	18.31	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.05	17.5	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.08	18.53	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.95	18.4	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.81	18.26	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.03	17.48	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.36	17.81	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.44	17.89	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.27	17.72	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.19	16.64	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.2	17.65	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.43	17.88	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.23	17.68	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.04	16.49	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.36	17.81	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.38	17.83	34.77	PASS



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Band12	3MHz	16QAM	23165	1RB#14	23.35	17.8	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.05	16.5	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.27	16.72	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.3	16.75	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.42	16.87	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.15	15.6	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.08	16.53	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.22	16.67	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.12	16.57	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.08	15.53	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.35	16.8	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.25	16.7	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.26	16.71	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.05	15.5	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.92	18.37	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.04	18.49	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.88	18.33	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.07	17.52	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.86	18.31	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.98	18.43	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.85	18.3	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.08	17.53	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.94	18.39	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.97	18.42	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.8	18.25	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23	17.45	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.44	17.89	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.34	17.79	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.43	17.88	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.1	16.55	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.3	17.75	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.37	17.82	34.77	PASS



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Band12	5MHz	16QAM	23095	1RB#24	23.34	17.79	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.02	16.47	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.38	17.83	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.33	17.78	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.14	17.59	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.01	16.46	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.39	16.84	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.21	16.66	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.17	16.62	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.09	15.54	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.22	16.67	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.26	16.71	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.32	16.77	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.02	15.47	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.25	16.7	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.35	16.8	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.25	16.7	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.04	15.49	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.09	18.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.98	18.43	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24	18.45	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.05	17.5	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24	18.45	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.91	18.36	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.89	18.34	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.04	17.49	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.91	18.36	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.93	18.38	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.94	18.39	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.17	17.62	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.45	17.9	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.4	17.85	34.77	PASS



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Band12	10MHz	16QAM	23060	1RB#49	23.24	17.69	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.15	16.6	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.45	17.9	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.37	17.82	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.26	17.71	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.12	16.57	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.45	17.9	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.35	17.8	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.44	17.89	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.04	16.49	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.25	16.7	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.2	16.65	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.14	16.59	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.18	15.63	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.25	16.7	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.32	16.77	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.16	16.61	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.11	15.56	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.32	16.77	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.29	16.74	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.18	16.63	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.09	15.54	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	5.22	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.46	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.46	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.26	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.32	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.48	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.68	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.68	13	PASS



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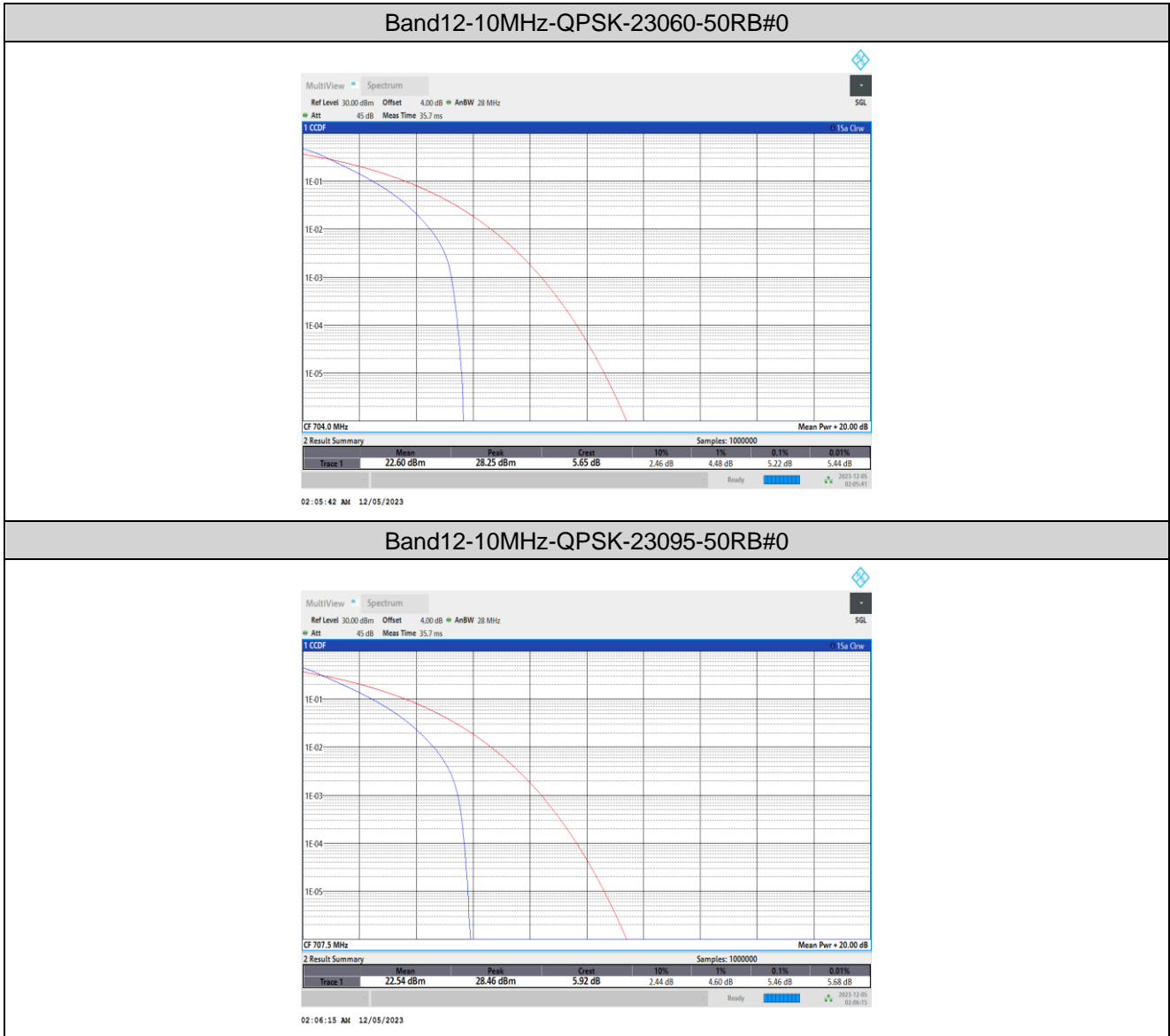
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Test Graphs



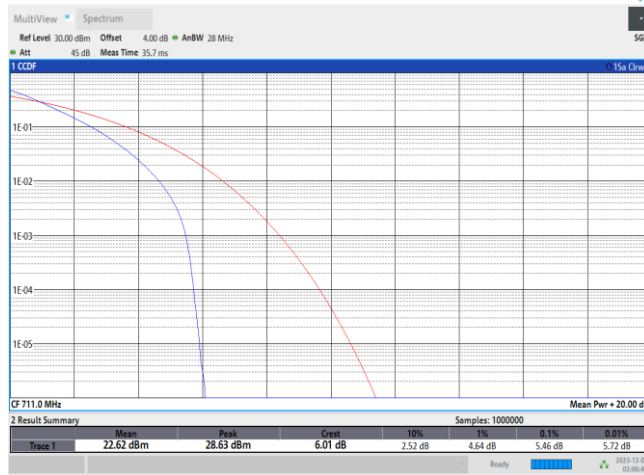
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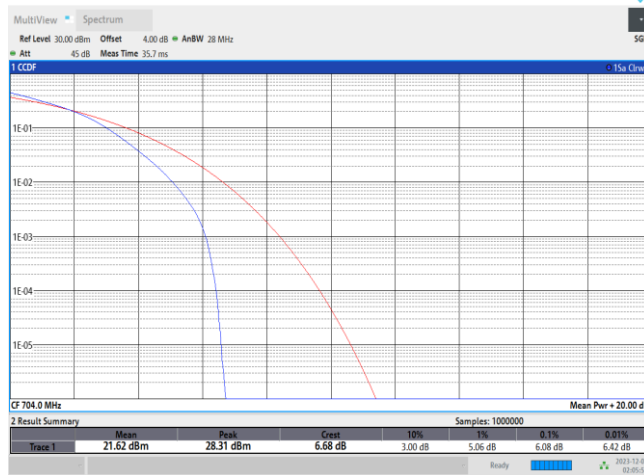


Band12-10MHz-QPSK-23130-50RB#0



02:06:49 AM 12/05/2023

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



02:05:59 AM 12/05/2023

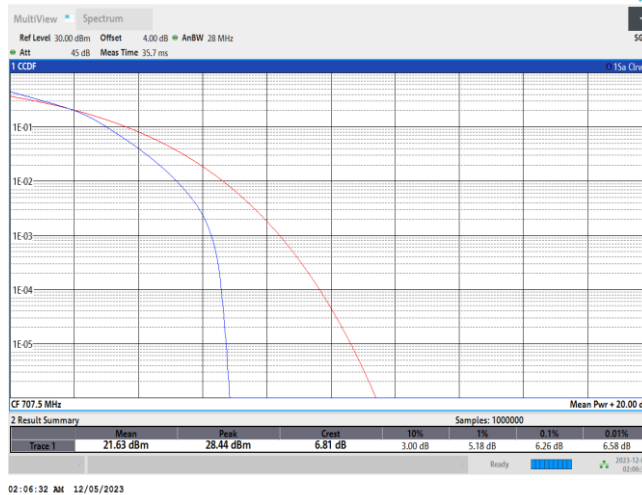


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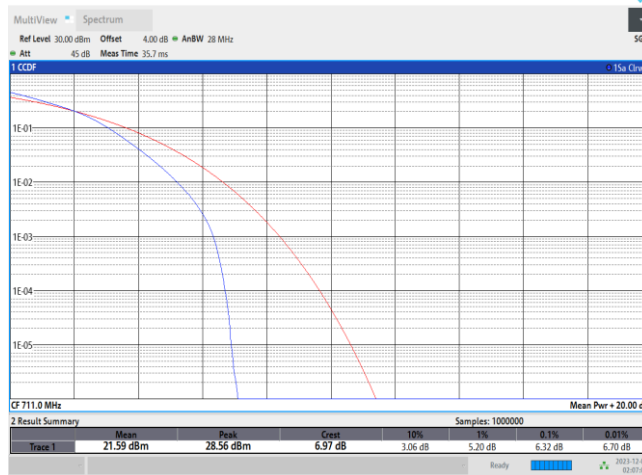
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Band12-10MHz-16QAM-23095-50RB#0



02:06:32 AM 12/05/2023

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



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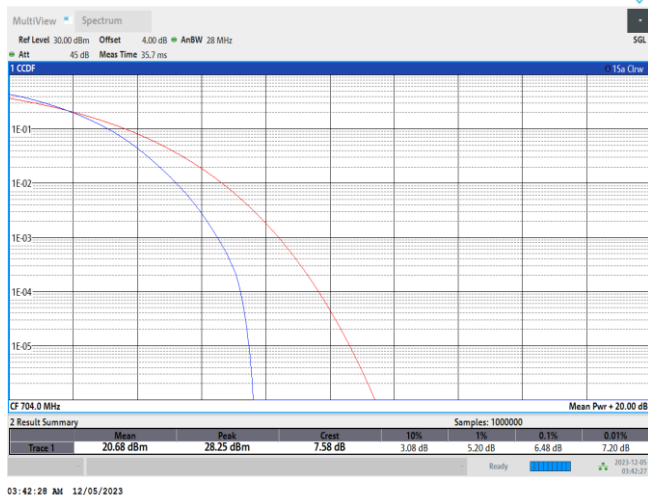


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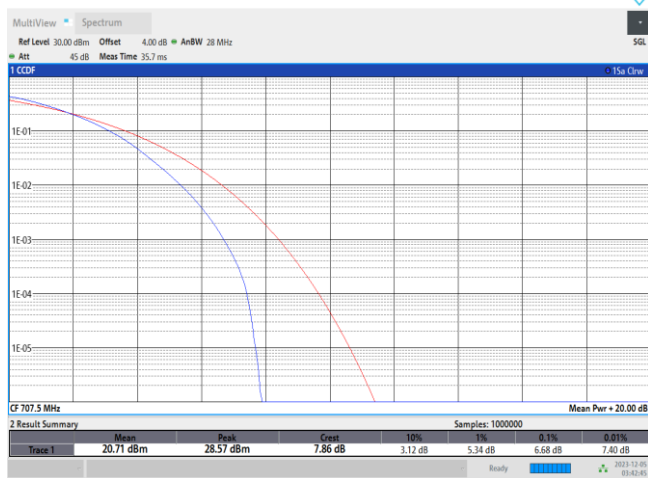
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Band12-10MHz-64QAM-23060-50RB#0



03:42:28 AM 12/05/2023

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



03:42:45 AM 12/05/2023

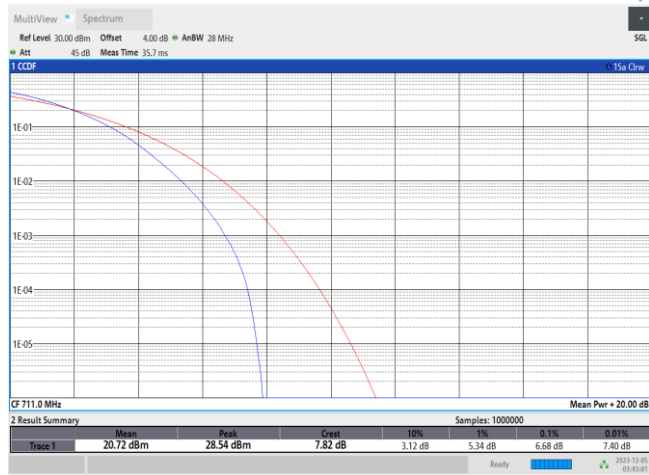


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Band12-10MHz-64QAM-23130-50RB#0



03:43:02 AM 12/05/2023



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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	1.1	1.37	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.109	1.39	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.101	1.39	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.698	3.04	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.702	3.08	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.698	3.03	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.492	5.03	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.478	5.13	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.478	5.06	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.948	9.80	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.943	10.00	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.931	9.86	PASS



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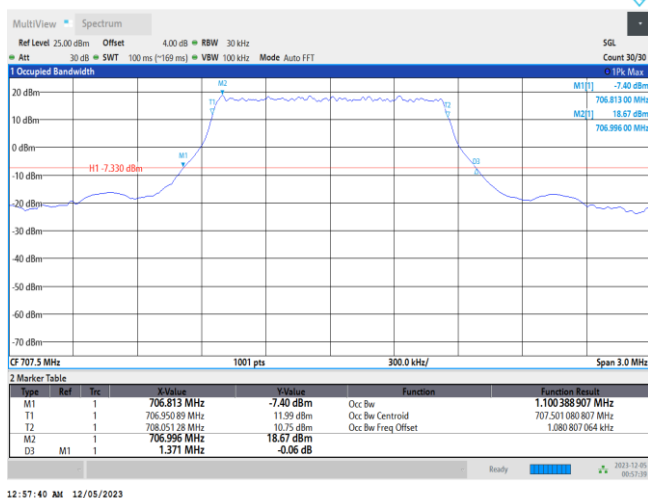
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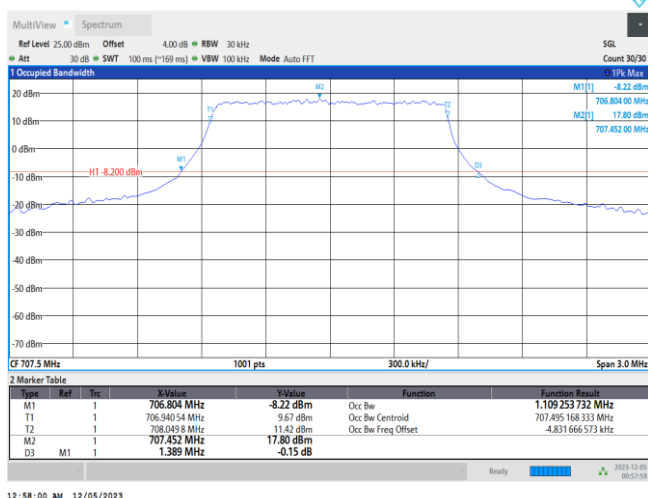
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Test Graphs

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



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



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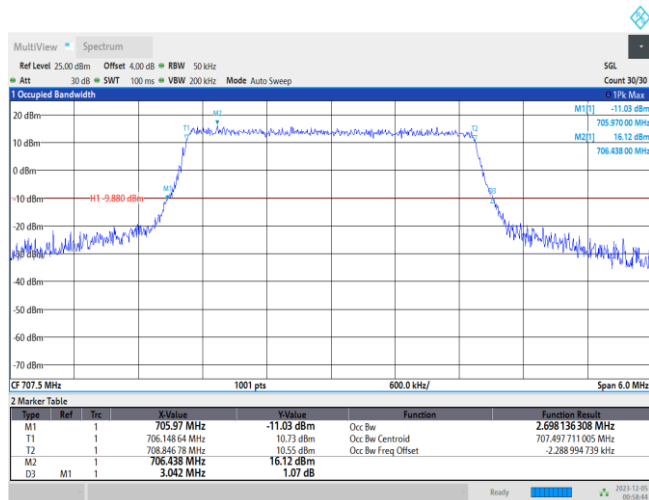
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Band12-3MHz-QPSK-23095-15RB#0



12:58:44 AM 12/05/2023

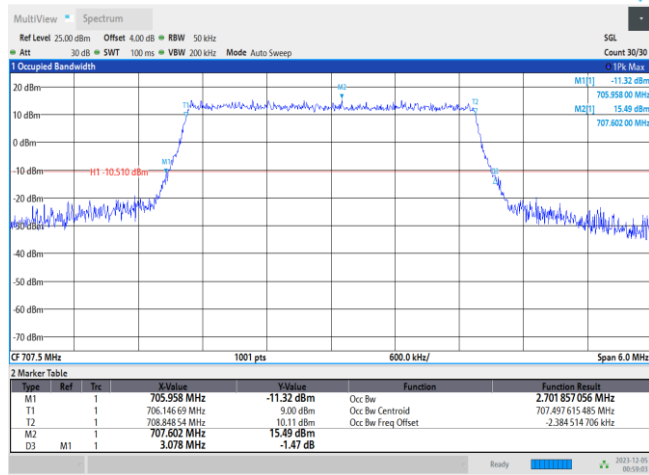


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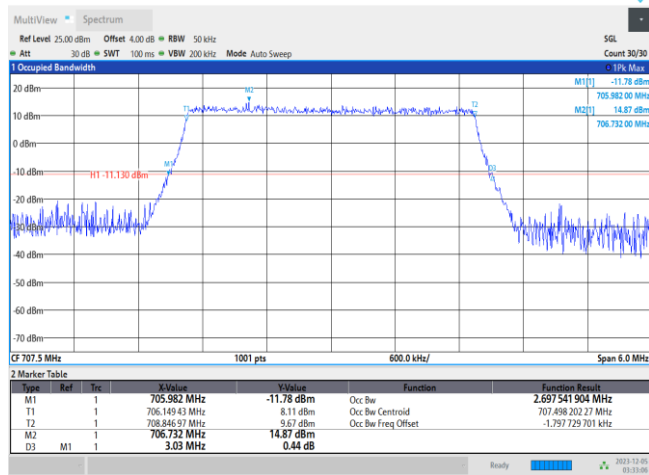
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12:59:03 AM 12/05/2023

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03:33:07 AM 12/05/2023



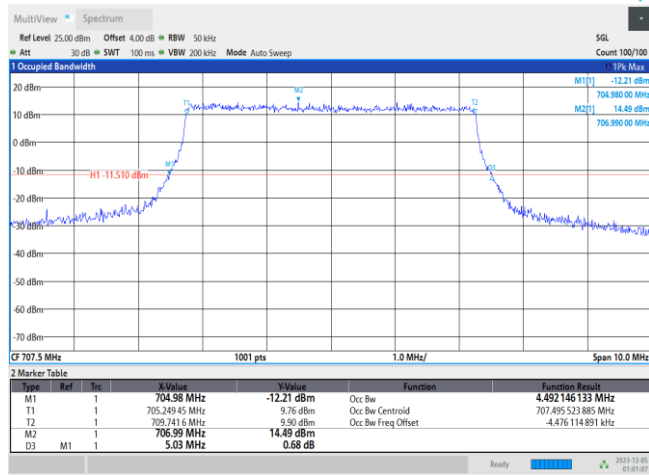
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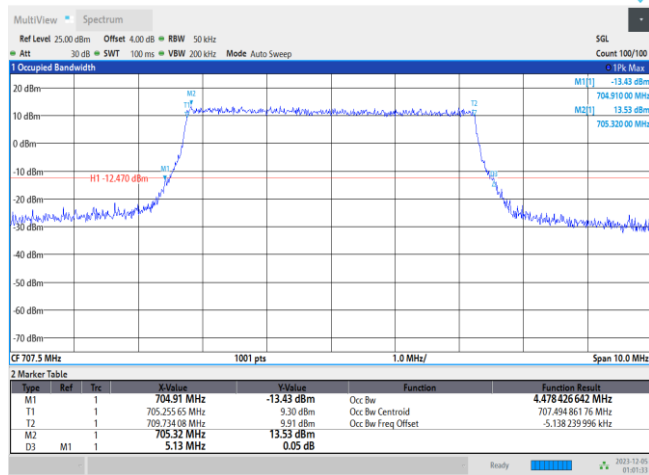


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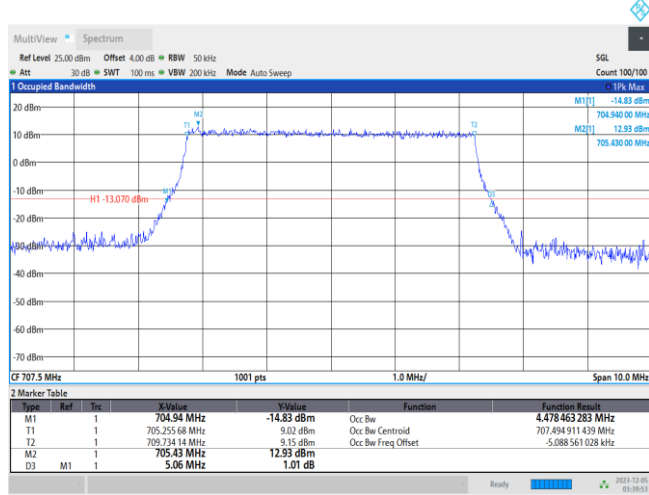


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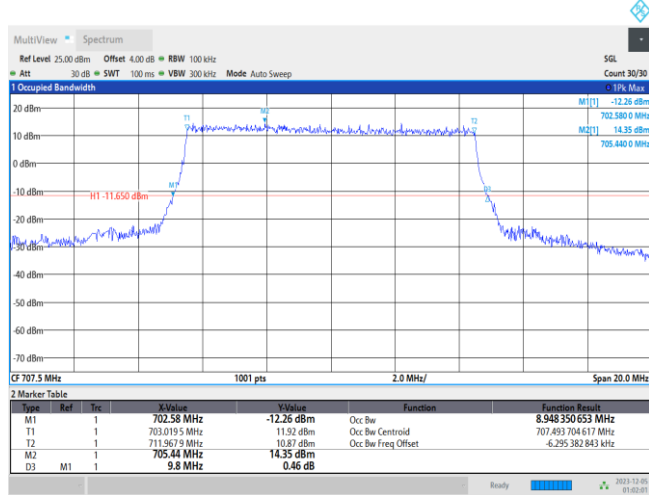
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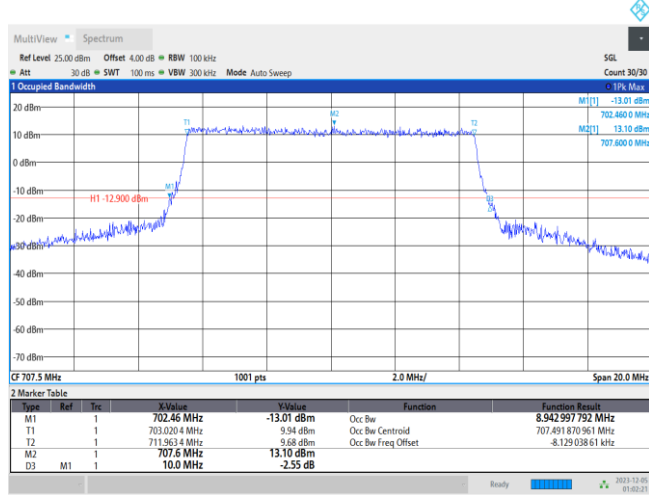


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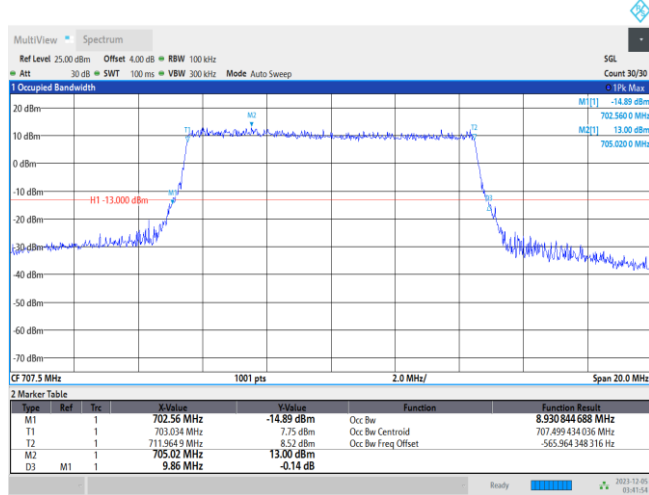
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Band12-10MHz-16QAM-23095-50RB#0



01:02:21 AM 12/05/2023

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



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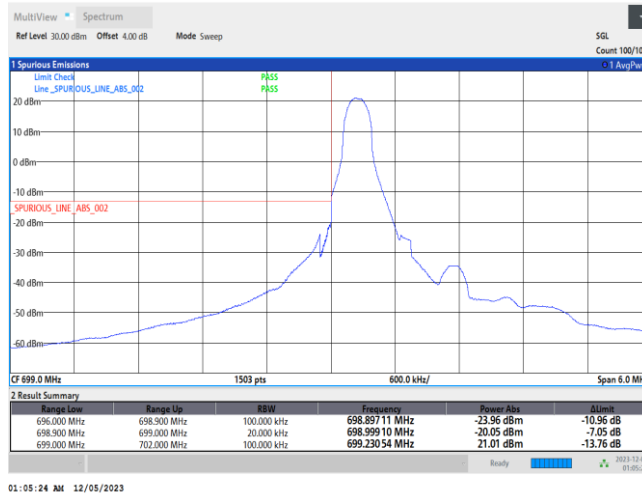
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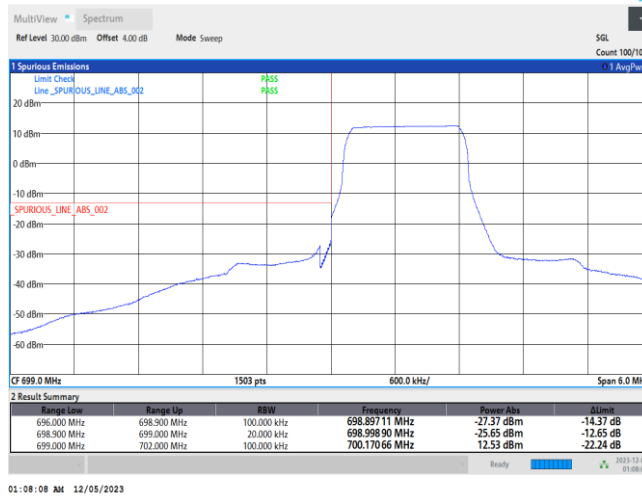
## Band Edge

## Test Graphs

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



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



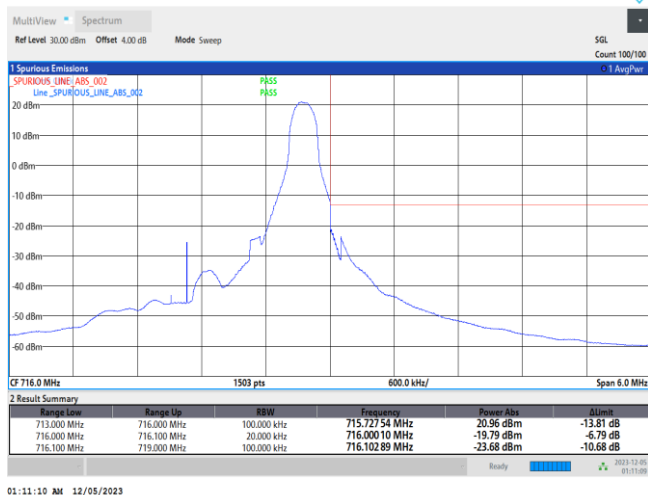
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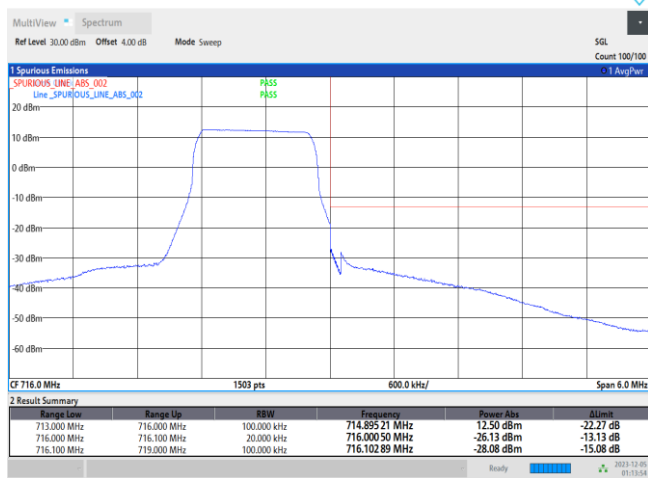


Band12-1.4MHz-QPSK-23173-1RB#5



01:11:10 AM 12/05/2023

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



01:13:54 AM 12/05/2023

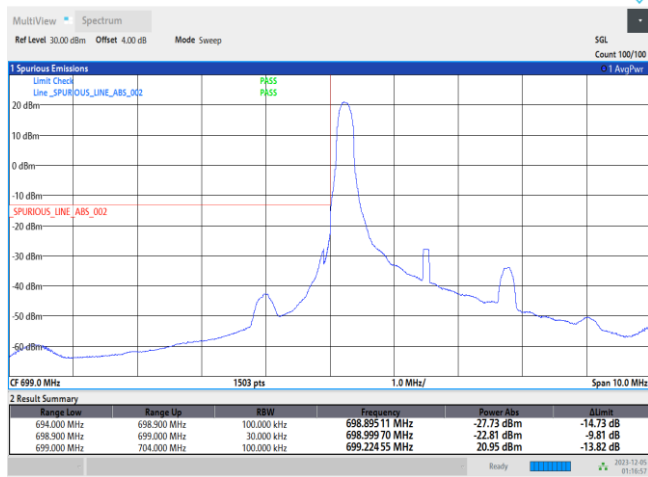


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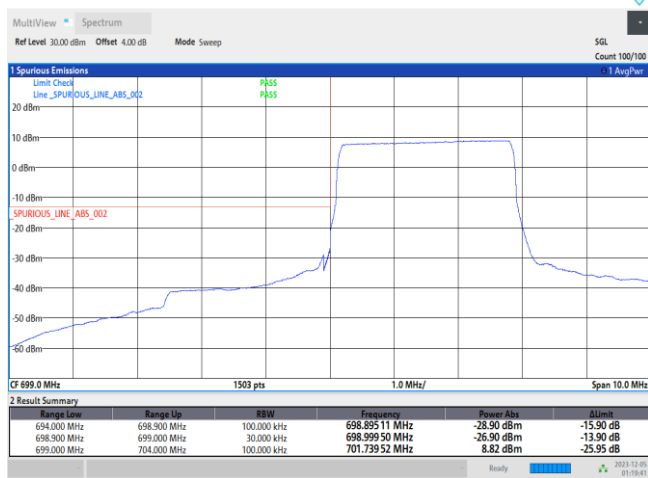
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Band12-3MHz-QPSK-23025-1RB#0



01:16:57 AM 12/05/2023

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



01:19:41 AM 12/05/2023

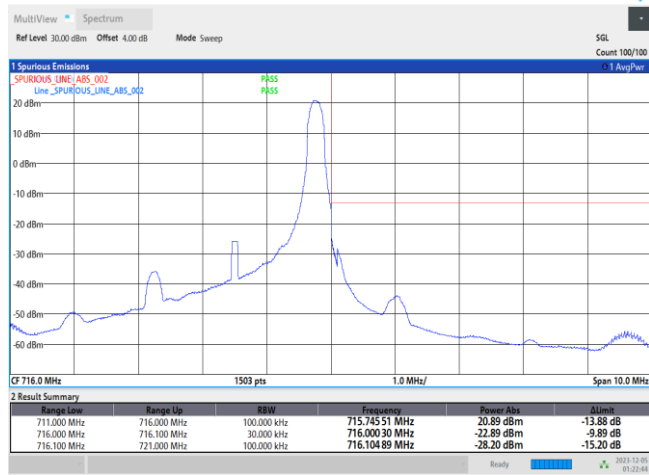


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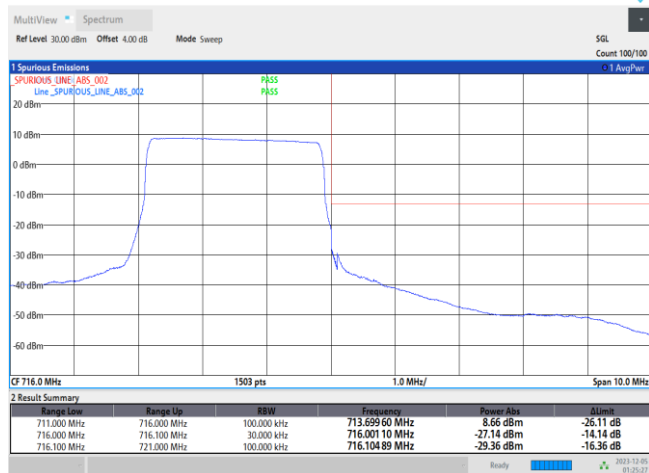
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Band12-3MHz-QPSK-23165-1RB#14



01:22:44 AM 12/05/2023

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



01:25:28 AM 12/05/2023

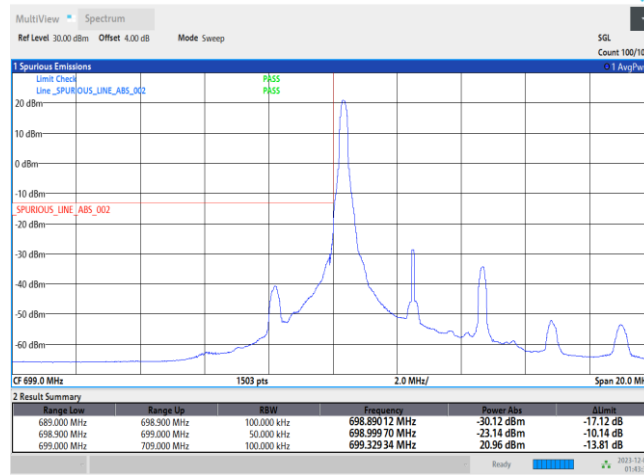


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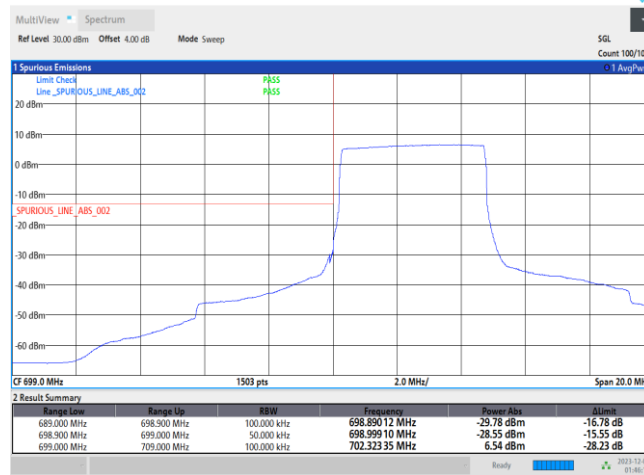
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Band12-5MHz-QPSK-23035-1RB#0



01:43:34 AM 12/05/2023

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



01:46:18 AM 12/05/2023

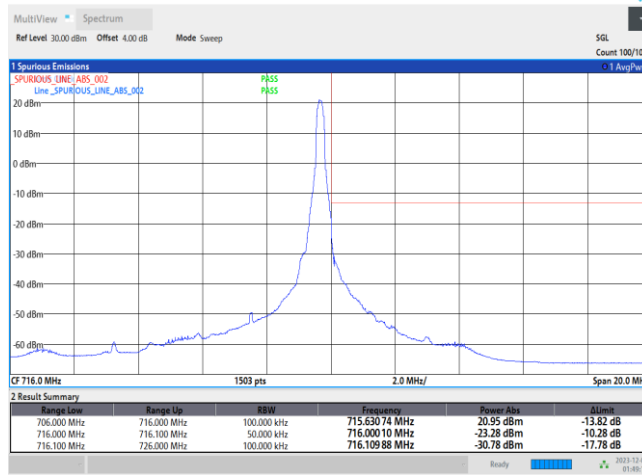


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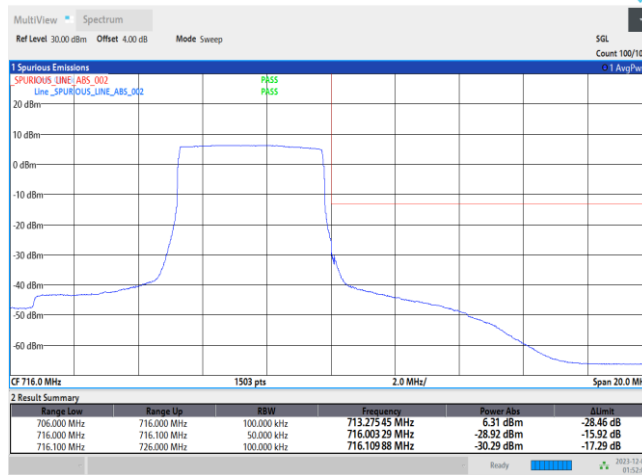
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Band12-5MHz-QPSK-23155-1RB#24



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



01:52:04 AM 12/05/2023



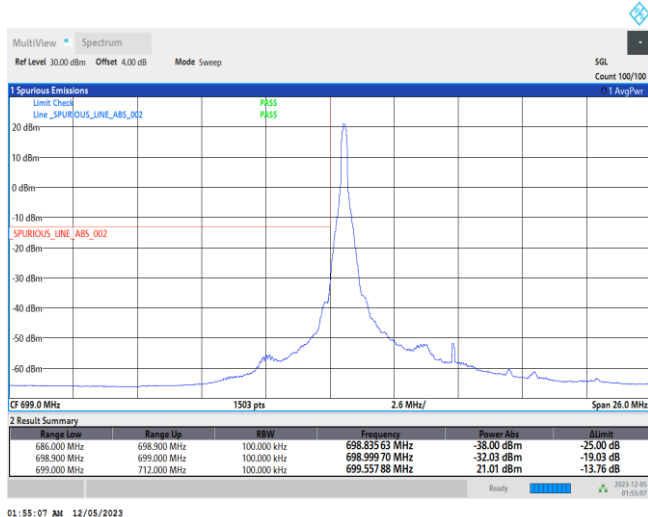
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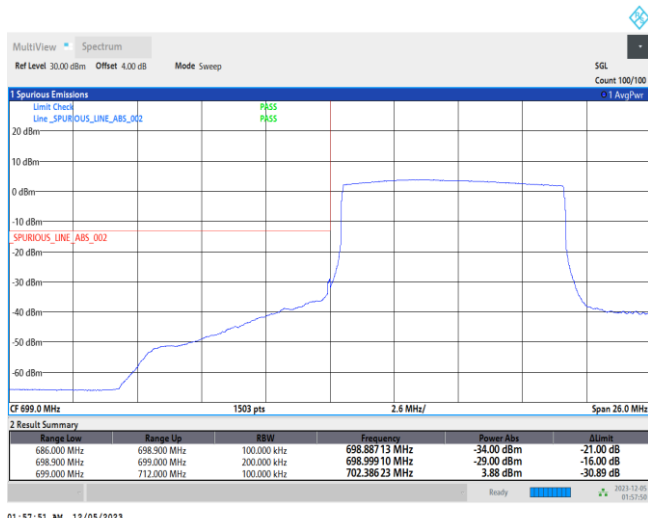


Band12-10MHz-QPSK-23060-1RB#0



01:55:07 AM 12/05/2023

Band12-10MHz-QPSK-23060-50RB#0



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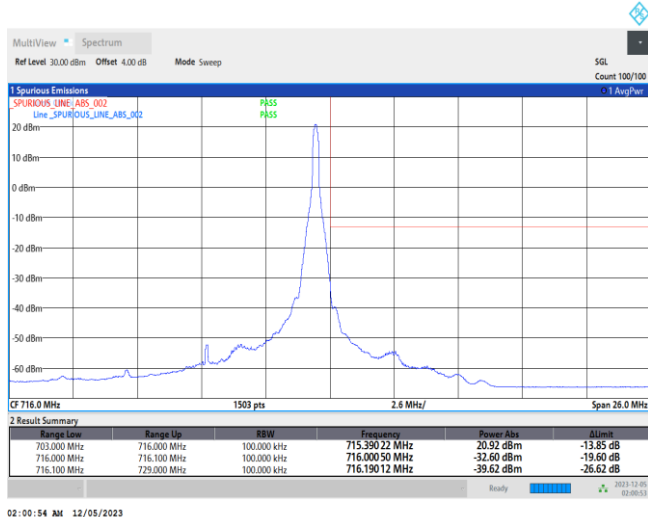


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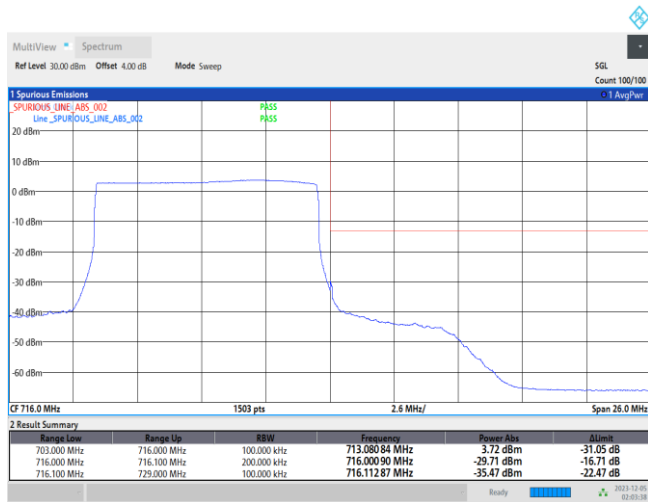
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Band12-10MHz-QPSK-23130-1RB#49



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



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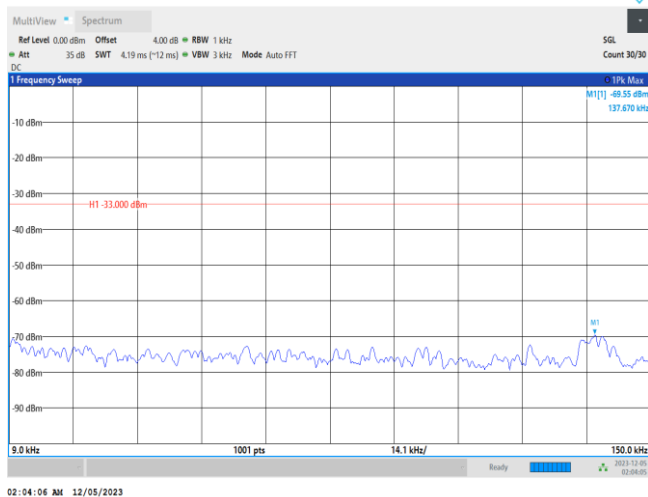
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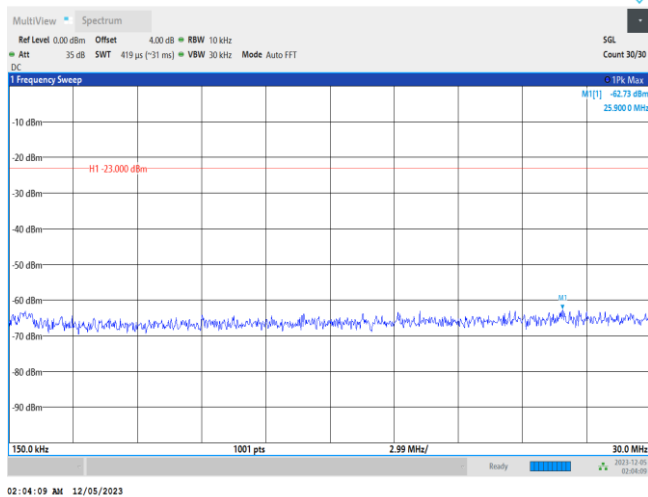
## Conducted Spurious Emission

### Test Graphs

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



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

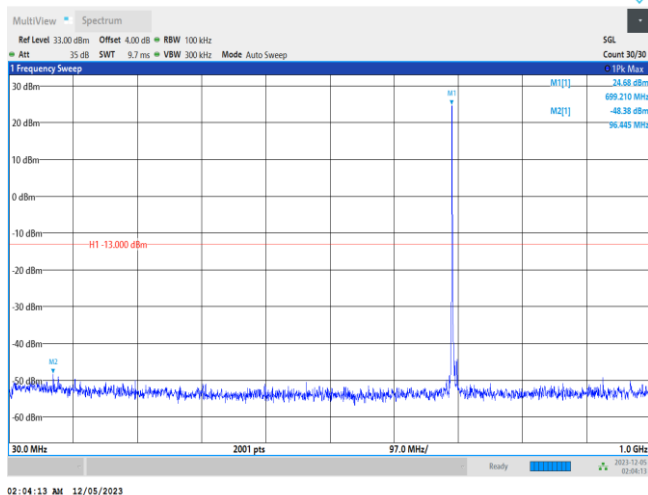


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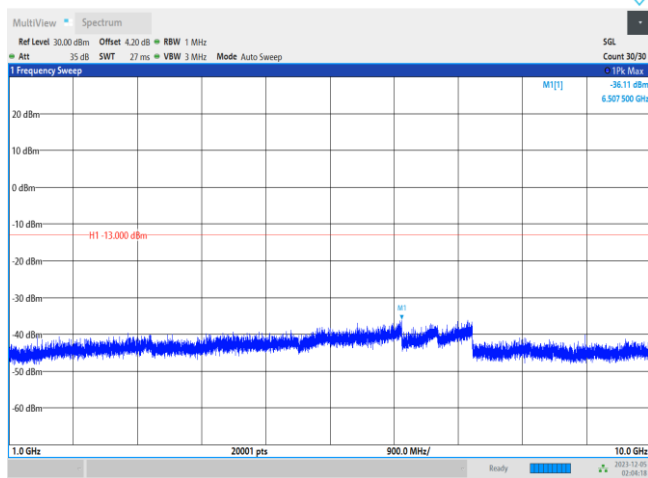
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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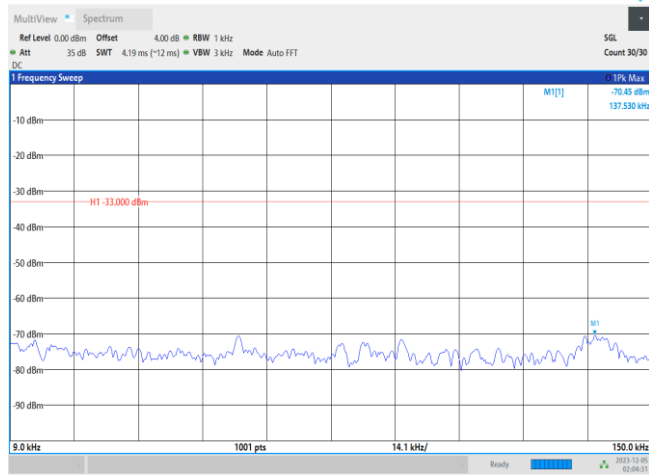


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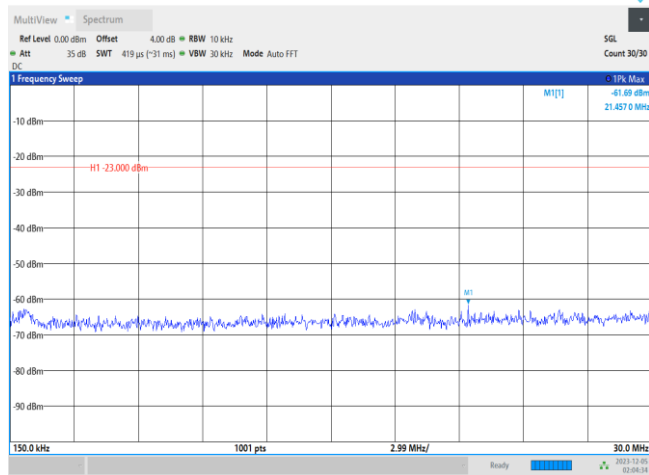
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Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



02:04:35 AM 12/05/2023



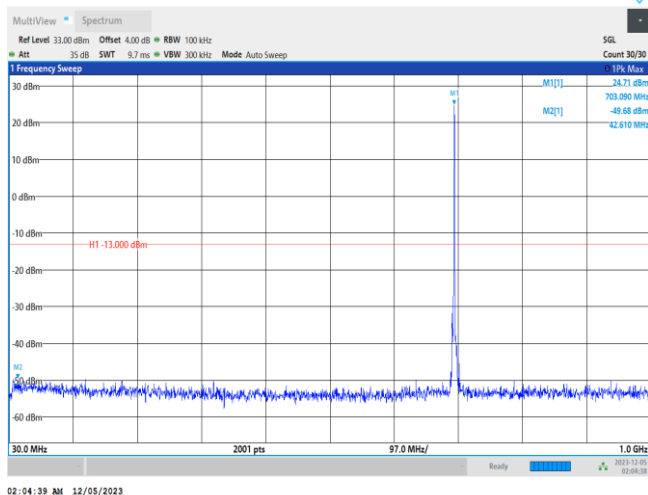
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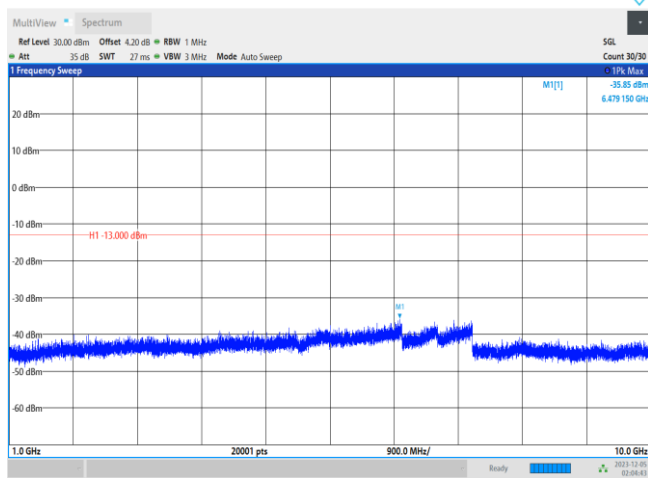


Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



02:04:39 AM 12/05/2023

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



02:04:44 AM 12/05/2023

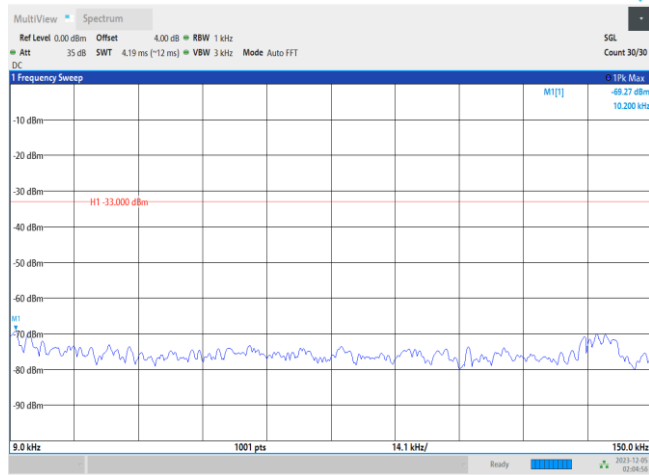


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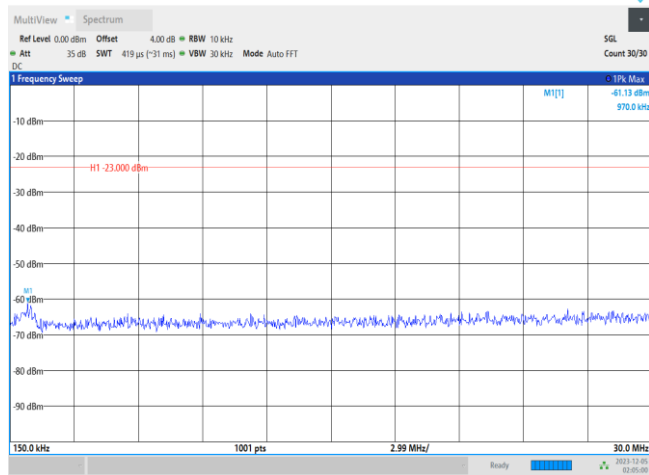
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



02:04:57 AM 12/05/2023

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



02:05:01 AM 12/05/2023

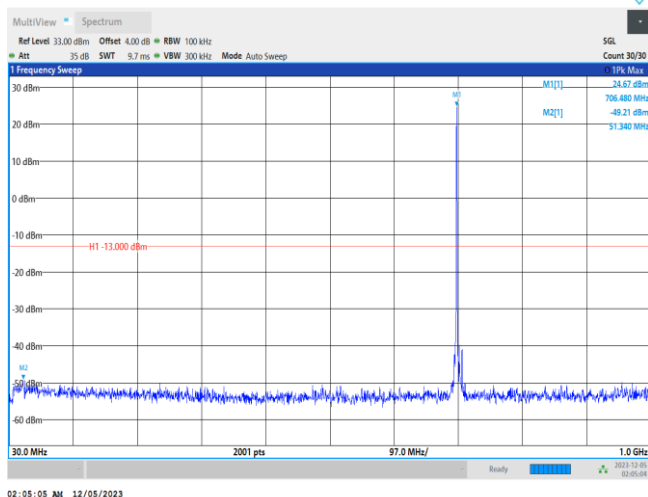


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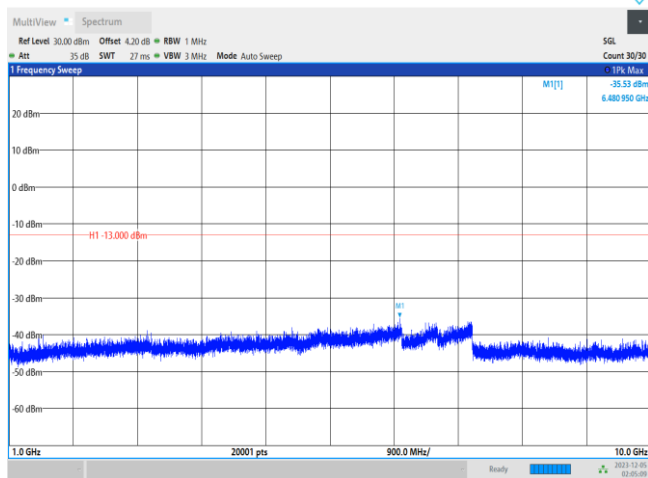
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



02:05:05 AM 12/05/2023

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



02:05:10 AM 12/05/2023



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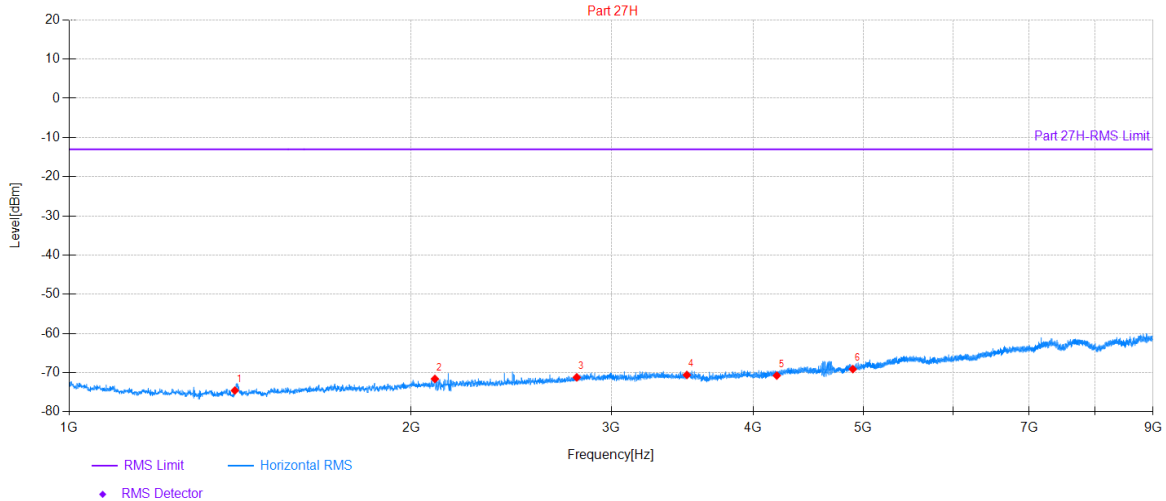
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## Field Strength of Spurious Radiation

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	1399.18	46.42	-50.01	24.30	-74.55	-13.00	61.55	Horizontal
2	2098.77	46.31	-49.46	26.82	-71.59	-13.00	58.59	Horizontal
3	2798.36	44.73	-48.68	28.02	-71.20	-13.00	58.20	Horizontal
4	3497.95	44.42	-48.44	28.70	-70.58	-13.00	57.58	Horizontal
5	4197.54	43.12	-48.36	29.76	-70.74	-13.00	57.74	Horizontal
6	4897.13	43.08	-48.17	31.25	-69.09	-13.00	56.09	Horizontal



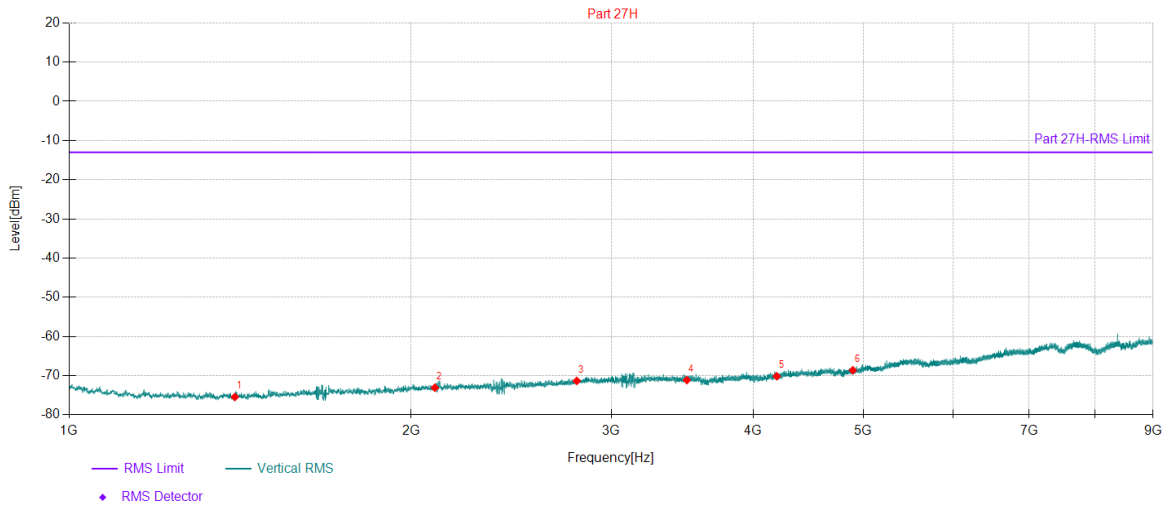
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Test Band = LTE Band 12\_ TM1

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.18	45.53	-50.01	24.30	-75.44	-13.00	62.44	Vertical
2	2098.77	44.83	-49.46	26.82	-73.07	-13.00	60.07	Vertical
3	2798.36	44.60	-48.68	28.02	-71.33	-13.00	58.33	Vertical
4	3497.95	43.86	-48.44	28.70	-71.14	-13.00	58.14	Vertical
5	4197.54	43.71	-48.36	29.76	-70.15	-13.00	57.15	Vertical
6	4897.13	43.55	-48.17	31.25	-68.62	-13.00	55.62	Vertical



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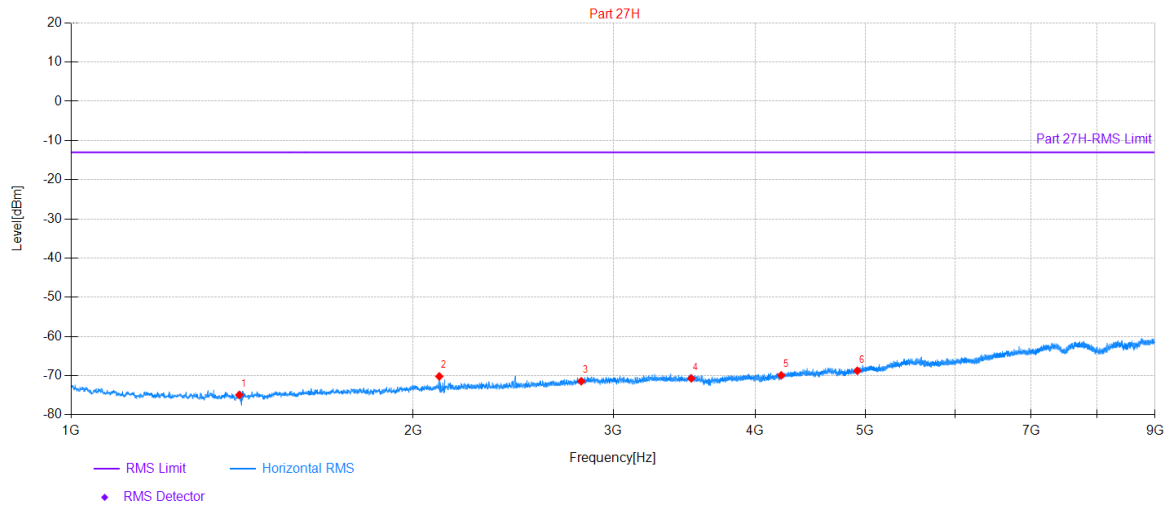
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**Test Band = LTE Band 12\_ TM1**

**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	46.03	-50.00	24.33	-74.90	-13.00	61.90	Horizontal
2	2109.27	47.71	-49.46	26.83	-70.18	-13.00	57.18	Horizontal
3	2812.36	44.48	-48.69	28.05	-71.42	-13.00	58.42	Horizontal
4	3515.45	44.29	-48.44	28.72	-70.69	-13.00	57.69	Horizontal
5	4218.54	43.85	-48.30	29.79	-69.91	-13.00	56.91	Horizontal
6	4921.63	43.33	-48.12	31.31	-68.74	-13.00	55.74	Horizontal



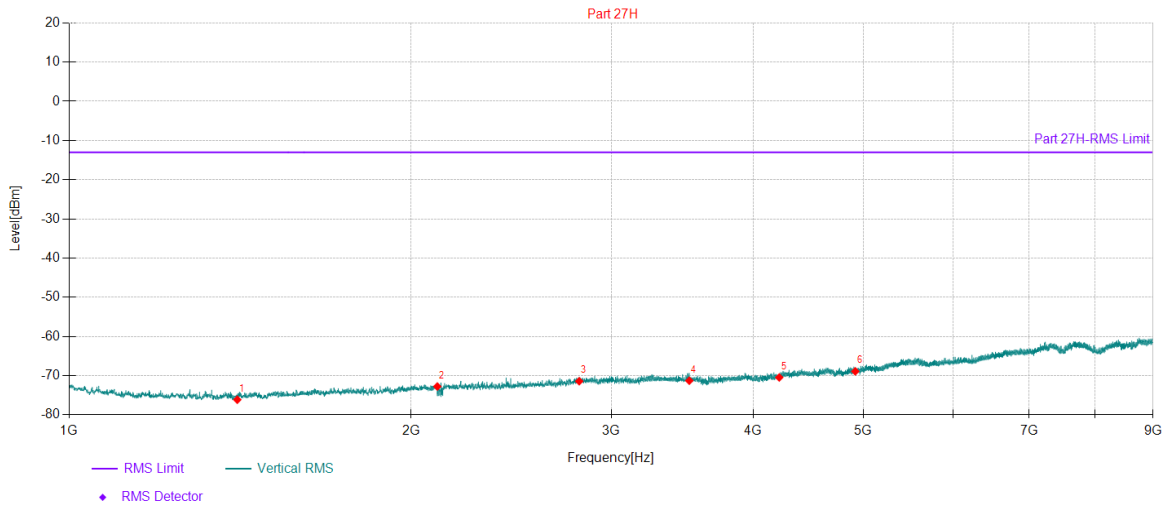
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**Test Band = LTE Band 12\_ TM1**

**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	44.80	-50.00	24.33	-76.13	-13.00	63.13	Vertical
2	2109.27	45.13	-49.46	26.83	-72.76	-13.00	59.76	Vertical
3	2812.36	44.49	-48.69	28.05	-71.41	-13.00	58.41	Vertical
4	3515.45	43.70	-48.44	28.72	-71.28	-13.00	58.28	Vertical
5	4218.54	43.31	-48.30	29.79	-70.45	-13.00	57.45	Vertical
6	4921.63	43.18	-48.12	31.31	-68.89	-13.00	55.89	Vertical



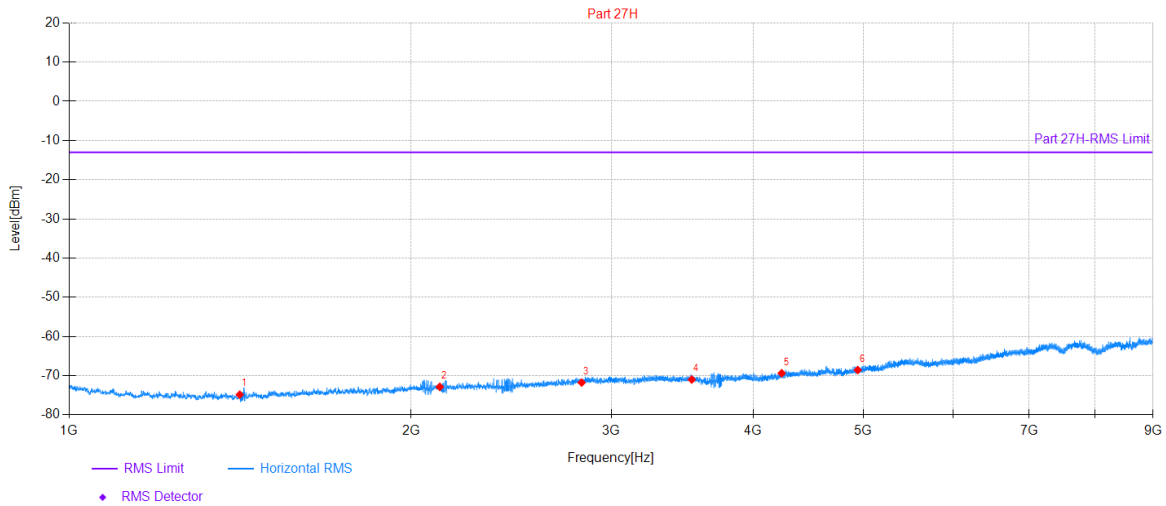
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**Test Band = LTE Band 12\_ TM1**

**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	46.05	-49.99	24.35	-74.84	-13.00	61.84	Horizontal
2	2119.77	45.02	-49.47	26.84	-72.86	-13.00	59.86	Horizontal
3	2826.36	44.13	-48.71	28.08	-71.75	-13.00	58.75	Horizontal
4	3532.95	43.97	-48.45	28.75	-70.99	-13.00	57.99	Horizontal
5	4239.54	44.29	-48.23	29.83	-69.37	-13.00	56.37	Horizontal
6	4946.13	43.41	-48.07	31.37	-68.55	-13.00	55.55	Horizontal



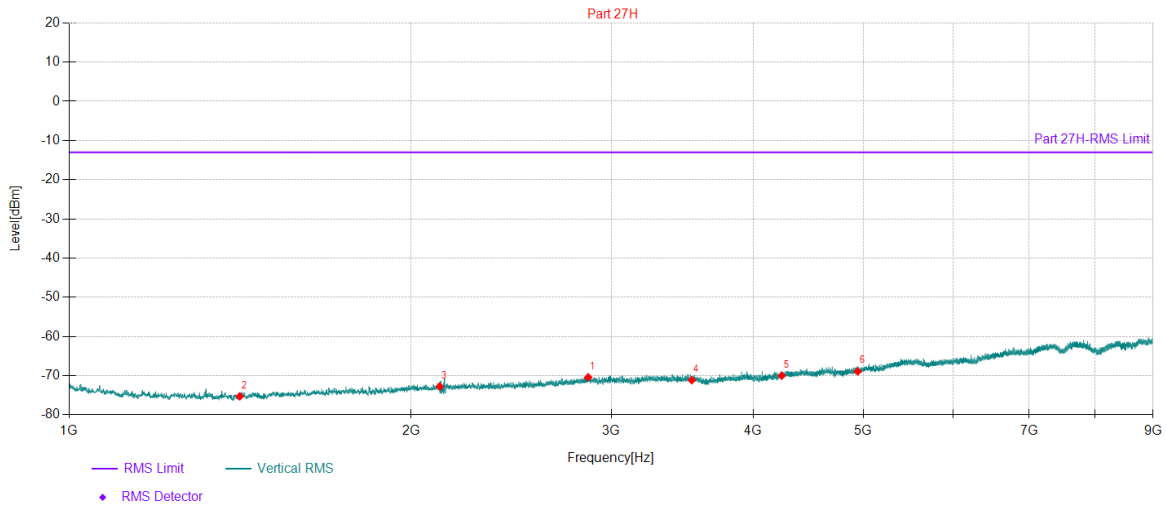
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**Test Band = LTE Band 12\_ TM1**

**Test Channel = High Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2864	45.41	-48.74	28.17	-70.42	-13.00	57.42	Vertical
2	1413.18	45.62	-49.99	24.35	-75.27	-13.00	62.27	Vertical
3	2119.77	45.13	-49.47	26.84	-72.75	-13.00	59.75	Vertical
4	3532.95	43.83	-48.45	28.75	-71.13	-13.00	58.13	Vertical
5	4239.54	43.66	-48.23	29.83	-70.00	-13.00	57.00	Vertical
6	4946.13	43.06	-48.07	31.37	-68.90	-13.00	55.90	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	0.90	0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-1.60	-0.002261	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	1.00	0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-1.30	-0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.70	0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	1.10	0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.10	-0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.80	0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.20	-0.001696	PASS

---End of Attachment---



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