

# Appendix B.5

## LTE Band 41



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant0 (Antenna Gain: 0.4dBi)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	18	18.4	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	17.92	18.32	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	17.95	18.35	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	17.82	18.22	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	17.92	18.32	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	17.77	18.17	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	17.81	18.21	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	17.91	18.31	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	17.89	18.29	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	17.76	18.16	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	17.79	18.19	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	17.78	18.18	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	18.26	18.66	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	18.12	18.52	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	18.08	18.48	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	18.06	18.46	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	18.07	18.47	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	18.08	18.48	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	17.99	18.39	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	17.97	18.37	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	18.17	18.57	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	17.98	18.38	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	18.01	18.41	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	17.95	18.35	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	18.08	18.48	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#12	17.92	18.32	33.00	PASS



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Band41	5MHz	64QAM	39675	1RB#24	17.82	18.22	33.00	PASS
Band41	5MHz	64QAM	39675	25RB#0	17.87	18.27	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	18.08	18.48	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	17.9	18.3	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	17.88	18.28	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	17.83	18.23	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	18	18.4	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	17.83	18.23	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	17.88	18.28	33.00	PASS
Band41	5MHz	64QAM	41565	25RB#0	17.77	18.17	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	18.02	18.42	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	17.9	18.3	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	17.9	18.3	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	17.92	18.32	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	17.94	18.34	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	17.76	18.16	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	17.82	18.22	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	17.8	18.2	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	17.95	18.35	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	17.79	18.19	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	17.79	18.19	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	17.81	18.21	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	18.24	18.64	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	18.01	18.41	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	18.06	18.46	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	18.08	18.48	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	18.13	18.53	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	18.02	18.42	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	18.08	18.48	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	17.99	18.39	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	18.09	18.49	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	17.94	18.34	33.00	PASS



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Band41	10MHz	16QAM	41540	1RB#49	18.05	18.45	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	18	18.4	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	18.01	18.41	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	17.93	18.33	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	17.83	18.23	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	17.77	18.17	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	18.09	18.49	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	17.87	18.27	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	17.87	18.27	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	17.79	18.19	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	17.99	18.39	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	17.86	18.26	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	17.84	18.24	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	17.8	18.2	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	17.97	18.37	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	17.89	18.29	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	17.91	18.31	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	17.83	18.23	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	17.93	18.33	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	17.87	18.27	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	17.83	18.23	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	17.83	18.23	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	17.96	18.36	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	17.76	18.16	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	17.8	18.2	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	17.81	18.21	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	18.23	18.63	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	18.05	18.45	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	18.05	18.45	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	18.11	18.51	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	18.05	18.45	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	18.03	18.43	33.00	PASS



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Band41	15MHz	16QAM	40620	1RB#74	18.03	18.43	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	17.95	18.35	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	18.19	18.59	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	17.91	18.31	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	17.95	18.35	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	17.93	18.33	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	18.05	18.45	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	17.88	18.28	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	17.92	18.32	33.00	PASS
Band41	15MHz	64QAM	39725	75RB#0	17.77	18.17	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	18.04	18.44	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	17.89	18.29	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	17.83	18.23	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	17.82	18.22	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	17.92	18.32	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	17.86	18.26	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	17.88	18.28	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	17.8	18.2	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	18.08	18.48	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	17.96	18.36	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	17.96	18.36	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.93	18.33	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	17.98	18.38	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	17.88	18.28	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	17.93	18.33	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.92	18.32	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	17.98	18.38	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	17.86	18.26	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	17.86	18.26	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.83	18.23	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	18.27	18.67	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	18.14	18.54	33.00	PASS



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Band41	20MHz	16QAM	39750	1RB#99	18.12	18.52	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	18.13	18.53	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	18.18	18.58	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	18.11	18.51	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	18.09	18.49	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	18.02	18.42	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	18.22	18.62	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	18.03	18.43	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	18.07	18.47	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	18.03	18.43	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	18.11	18.51	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	17.98	18.38	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	17.95	18.35	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.89	18.29	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	18.11	18.51	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	17.97	18.37	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	17.92	18.32	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.86	18.26	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	18.02	18.42	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#49	17.9	18.3	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#99	17.91	18.31	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.88	18.28	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	9.98	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.80	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.80	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	10.46	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	10.54	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	10.50	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	10.88	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	10.80	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	10.62	13	PASS



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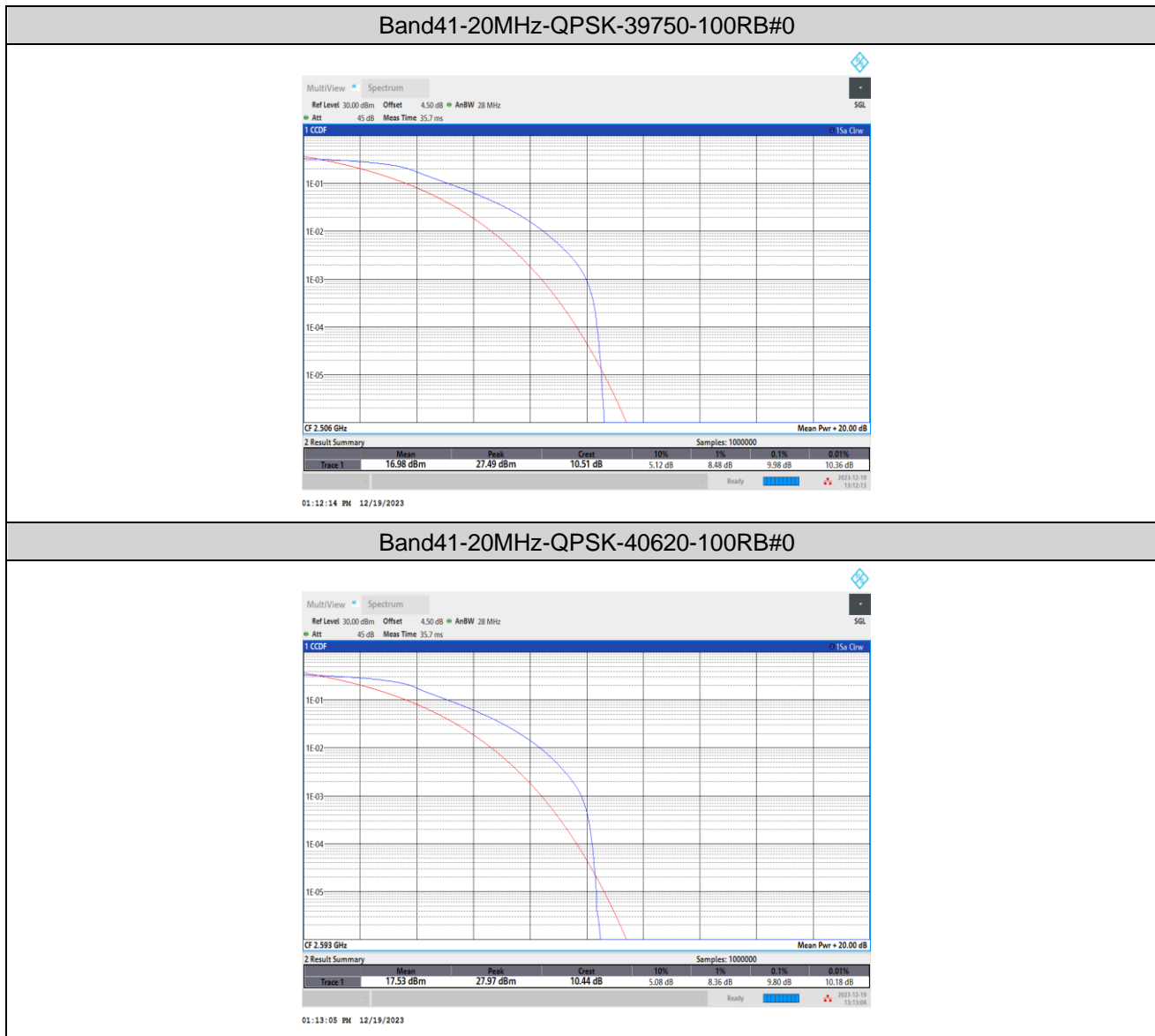
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Test Graphs



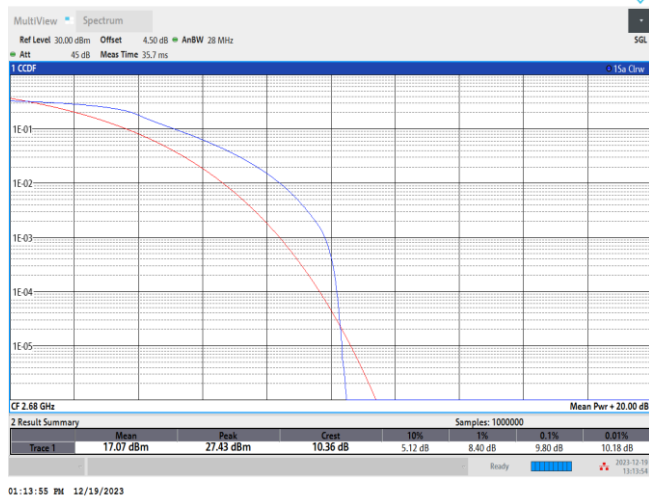
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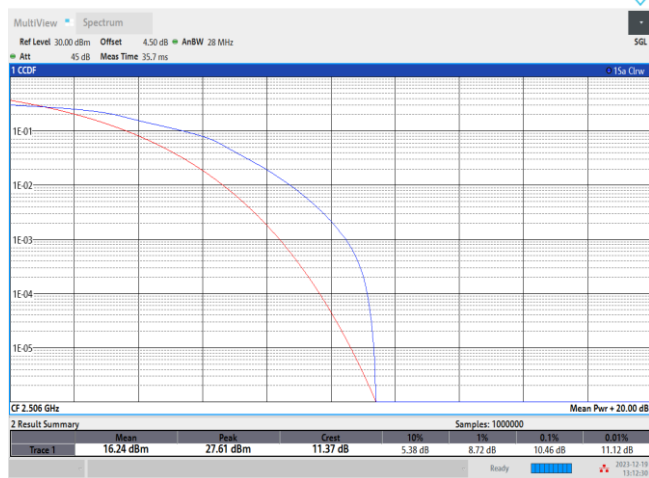


Band41-20MHz-QPSK-41490-100RB#0



01:13:55 PM 12/19/2023

Band41-20MHz-16QAM-39750-100RB#0



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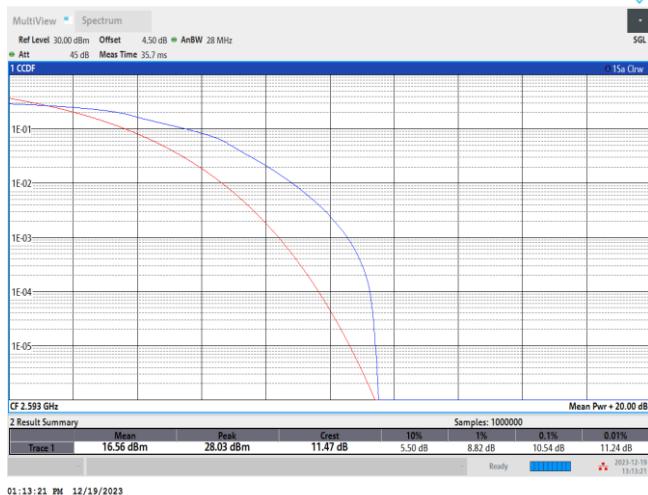


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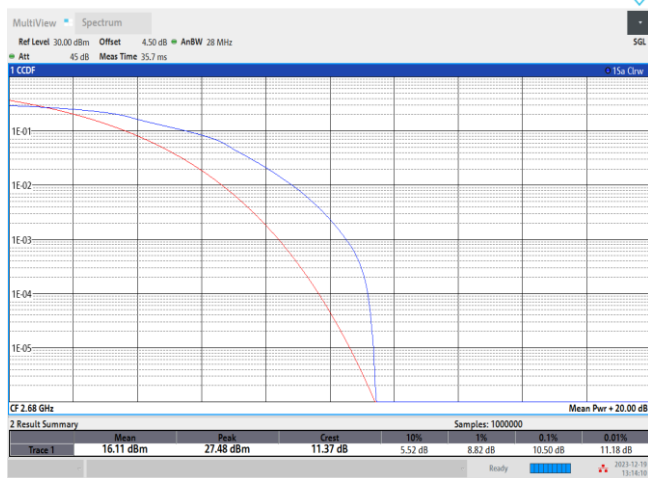
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Band41-20MHz-16QAM-40620-100RB#0



01:13:21 PM 12/19/2023

Band41-20MHz-16QAM-41490-100RB#0



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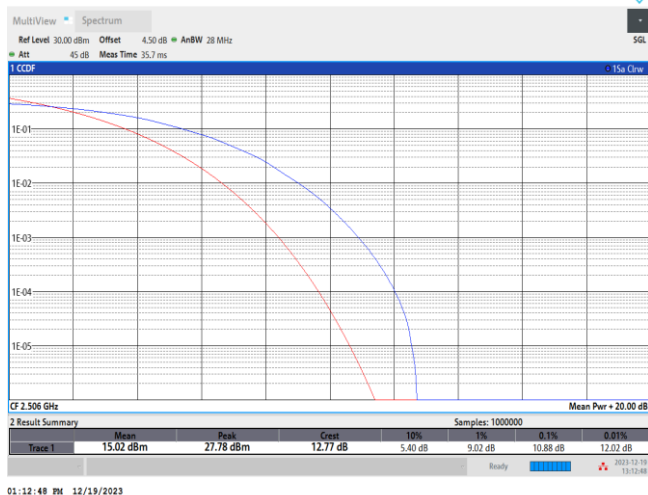


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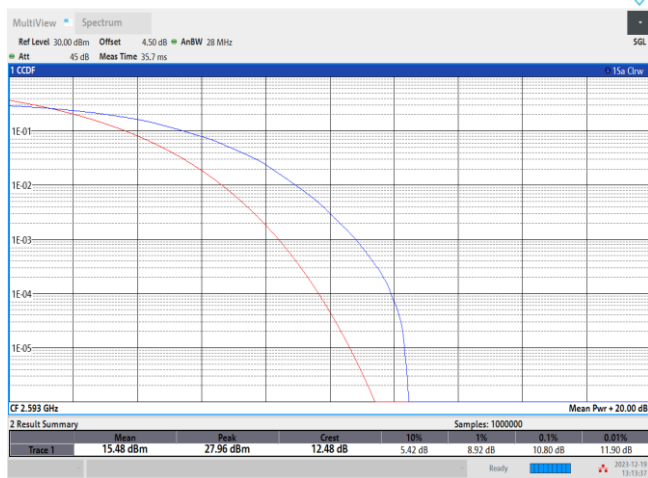
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Band41-20MHz-64QAM-39750-100RB#0



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Band41-20MHz-64QAM-40620-100RB#0



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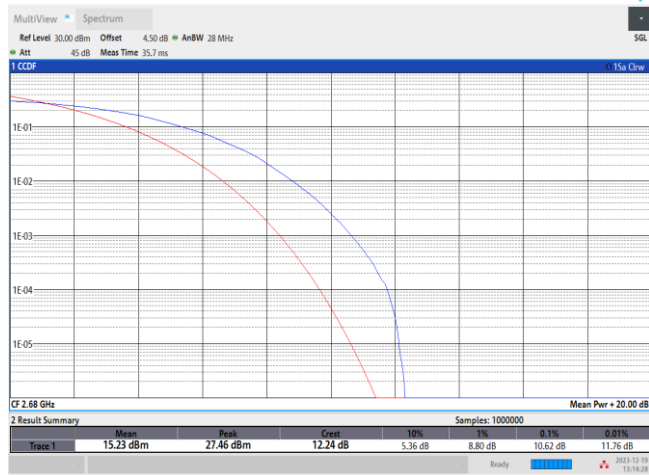


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Band41-20MHz-64QAM-41490-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	40620	25RB#0	4.478	4.99	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.474	5.03	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.489	5.05	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.954	9.88	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.978	9.92	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.96	9.86	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.484	15.12	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.498	15.18	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.496	15.06	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.934	19.56	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.919	19.68	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.912	19.84	PASS



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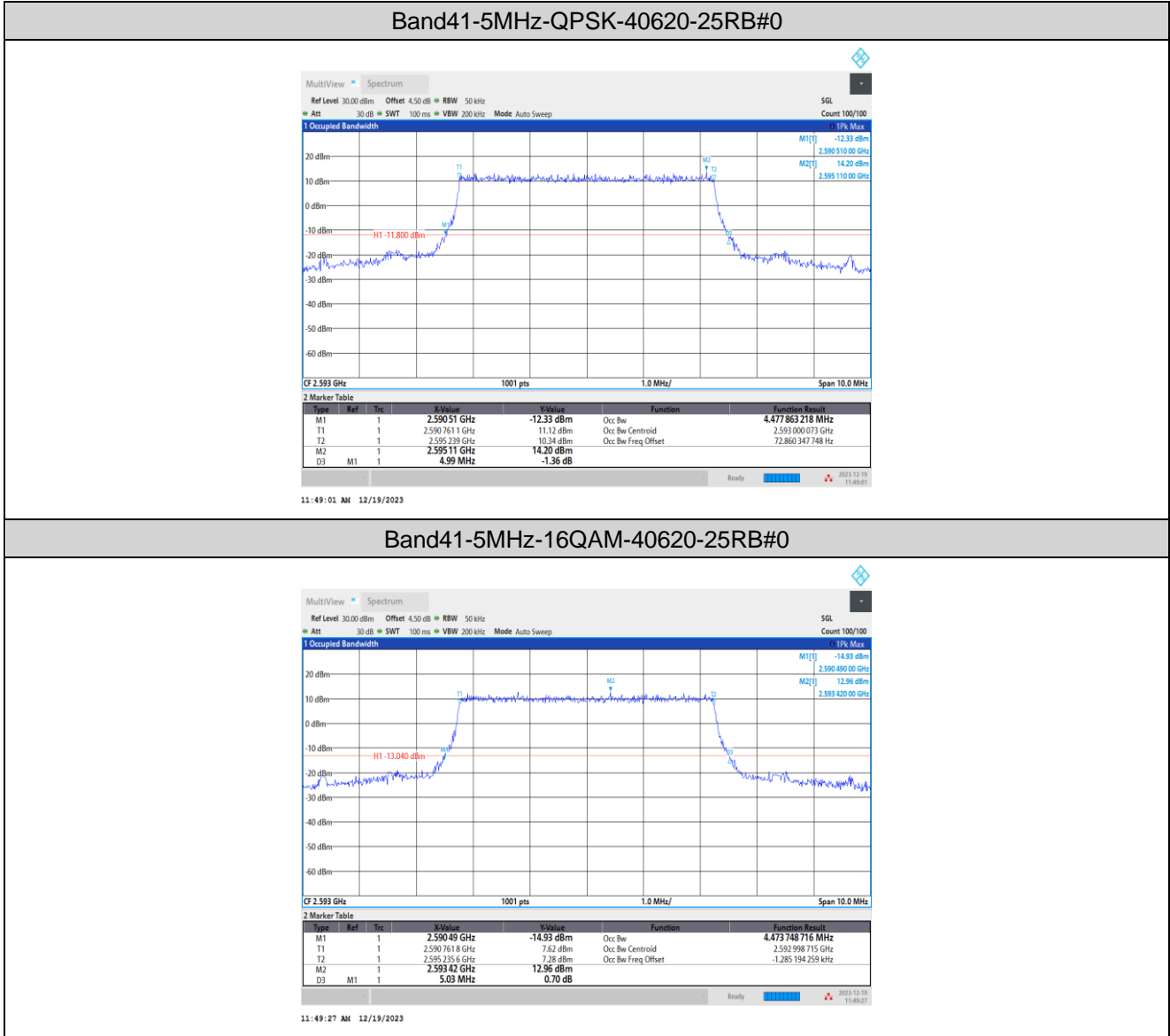
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Test Graphs

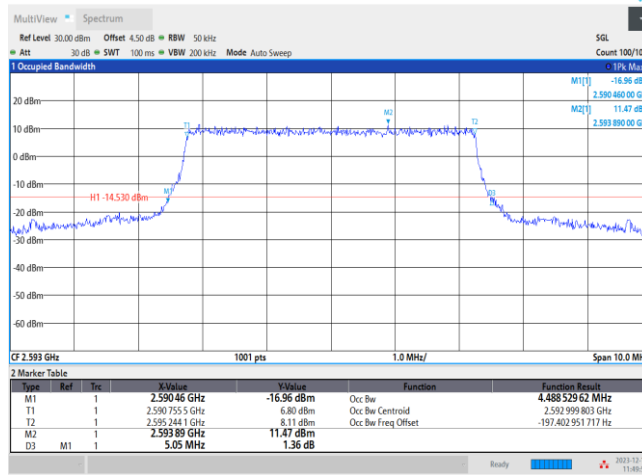


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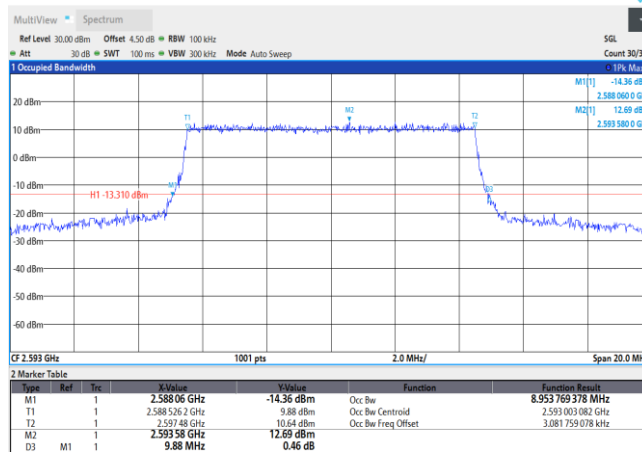
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Band41-5MHz-64QAM-40620-25RB#0



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Band41-10MHz-QPSK-40620-50RB#0



11:50:21 AM 12/19/2023

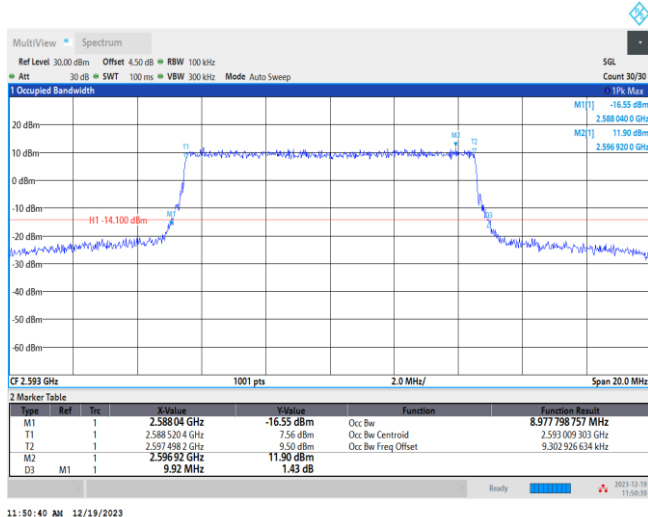


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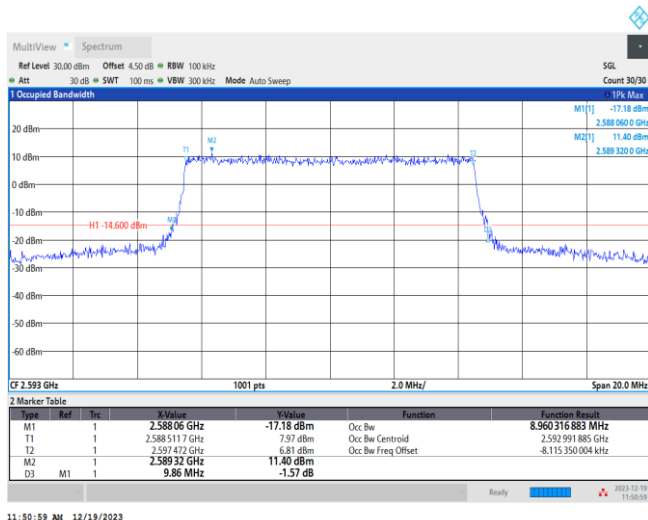
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Band41-10MHz-16QAM-40620-50RB#0



Band41-10MHz-64QAM-40620-50RB#0



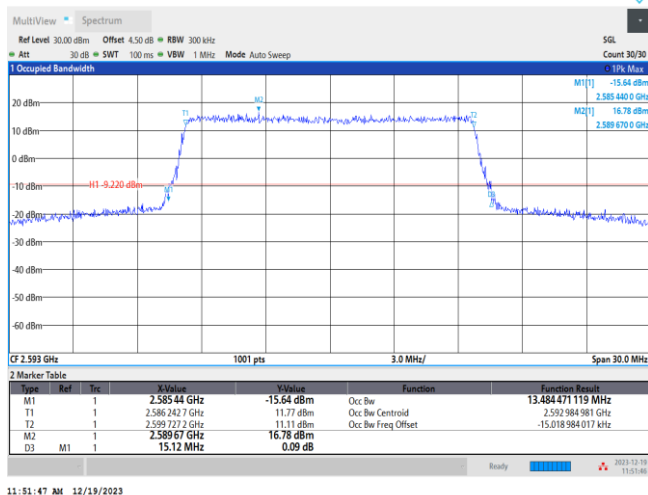
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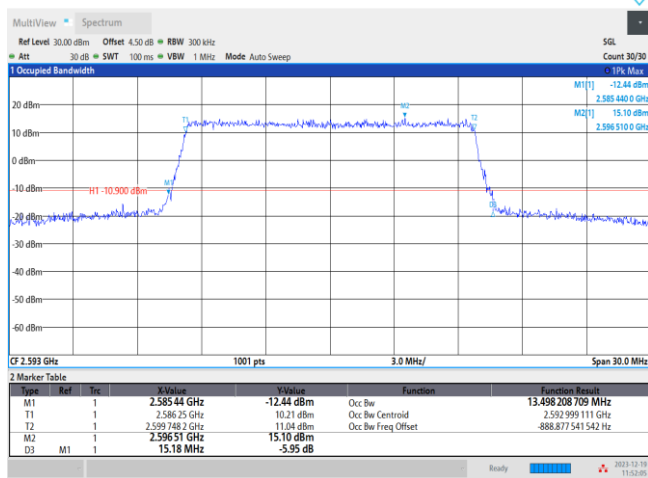


Band41-15MHz-QPSK-40620-75RB#0



11:51:47 AM 12/19/2023

Band41-15MHz-16QAM-40620-75RB#0



11:52:06 AM 12/19/2023

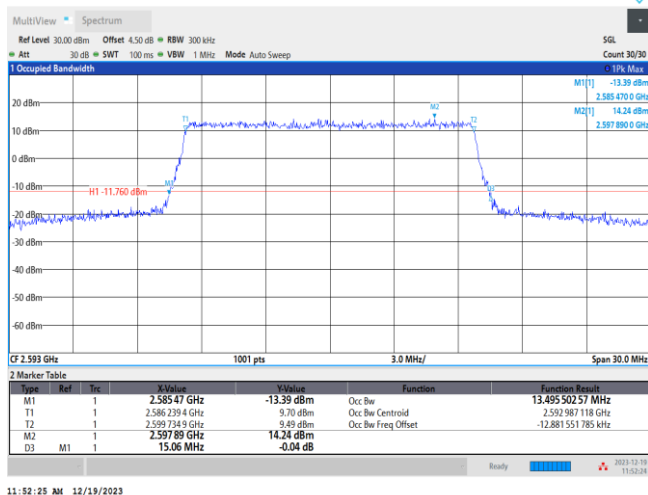


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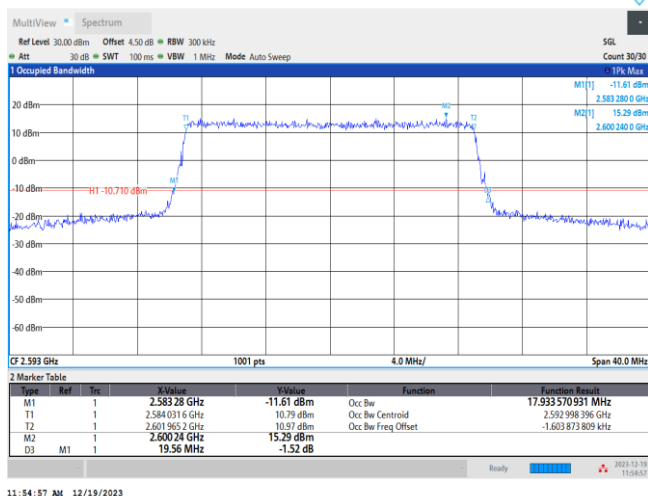
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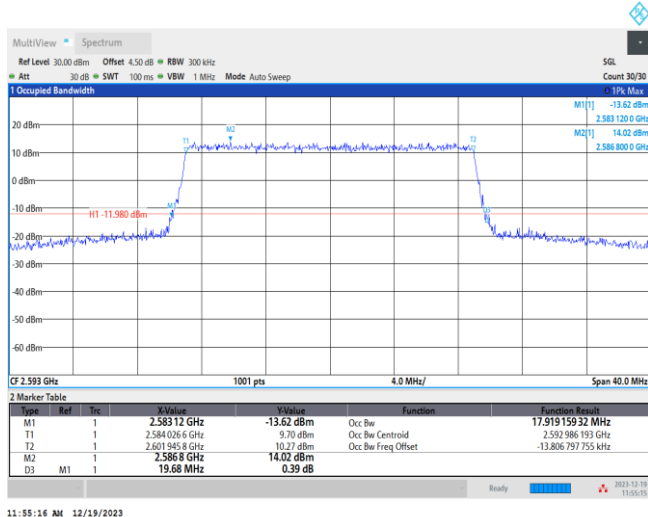


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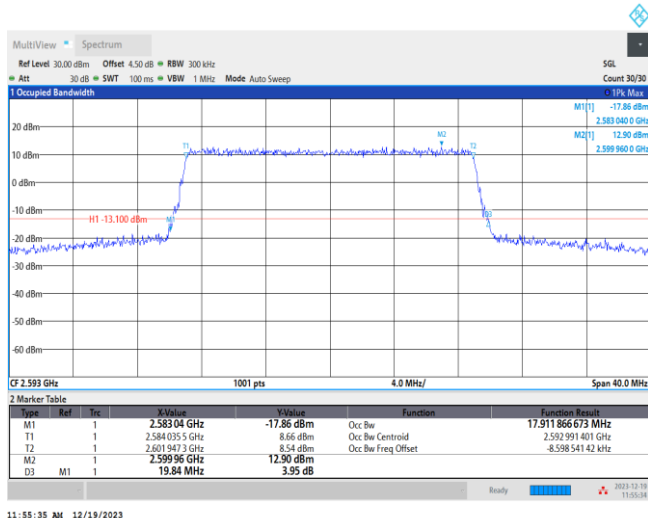
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Band41-20MHz-16QAM-40620-100RB#0



11:55:16 AM 12/19/2023

Band41-20MHz-64QAM-40620-100RB#0



11:55:35 AM 12/19/2023



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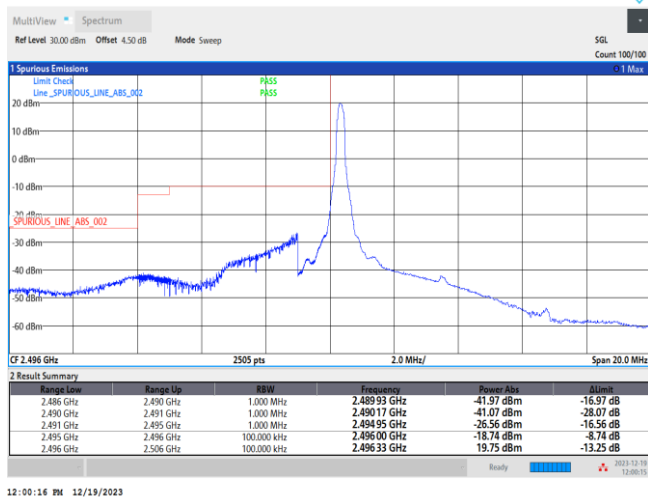
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### Band Edge

### Test Graphs

Band41-5MHz-QPSK-39675-1RB#0



12:00:16 PM 12/19/2023

Band41-5MHz-QPSK-39675-25RB#0



12:04:37 PM 12/19/2023

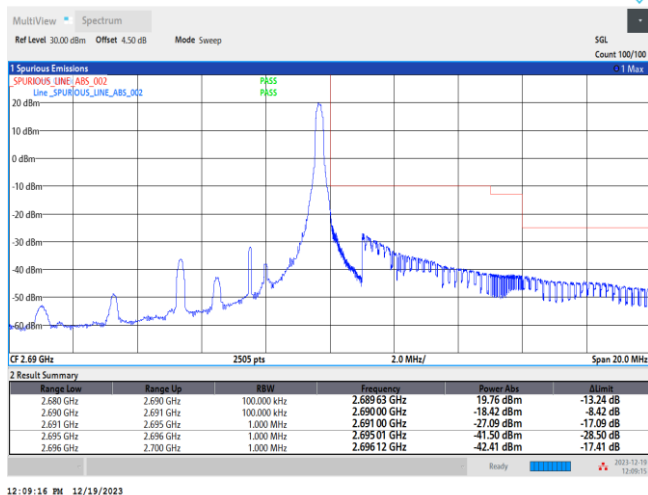


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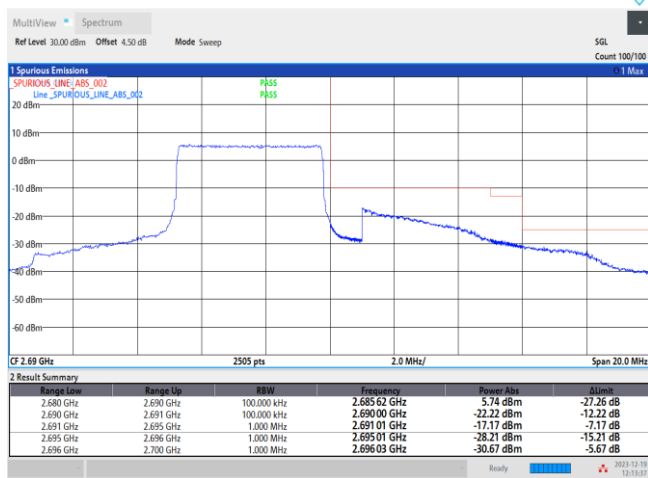
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Band41-5MHz-QPSK-41565-1RB#24



12:09:16 PM 12/19/2023

Band41-5MHz-QPSK-41565-25RB#0



12:13:37 PM 12/19/2023

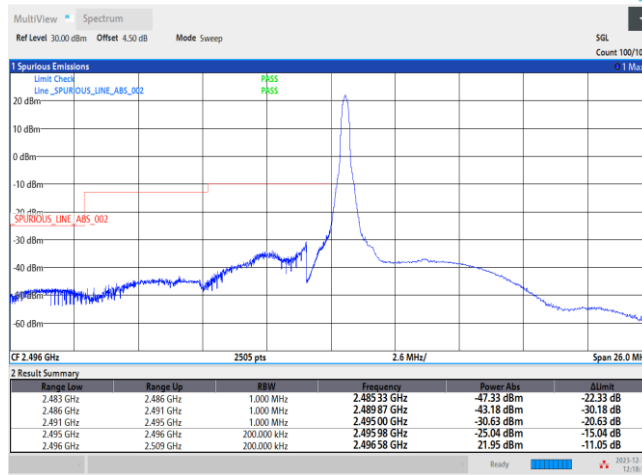


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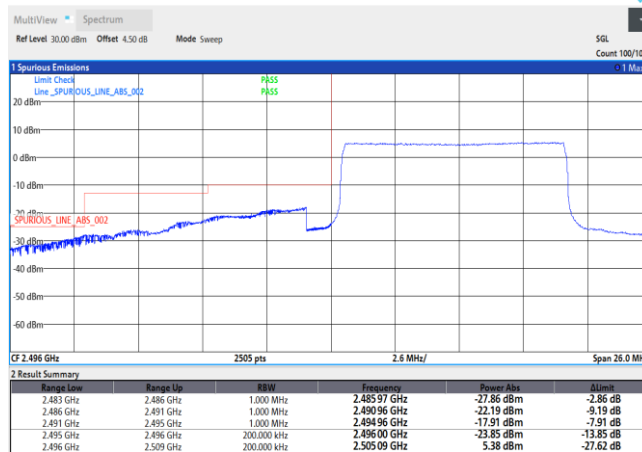
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Band41-10MHz-QPSK-39700-1RB#0



12:18:16 PM 12/19/2023

Band41-10MHz-QPSK-39700-50RB#0



12:22:37 PM 12/19/2023

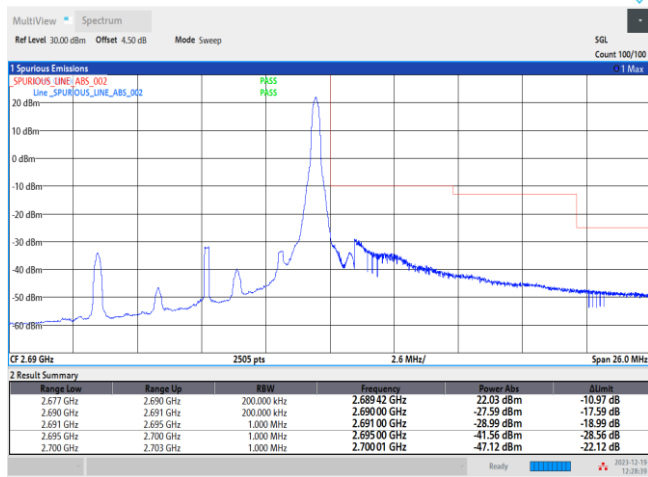


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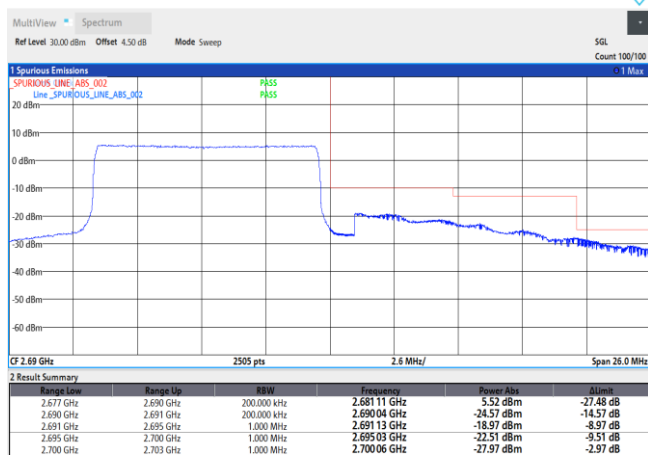
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Band41-10MHz-QPSK-41540-1RB#49



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Band41-10MHz-QPSK-41540-50RB#0



12:33:01 PM 12/19/2023

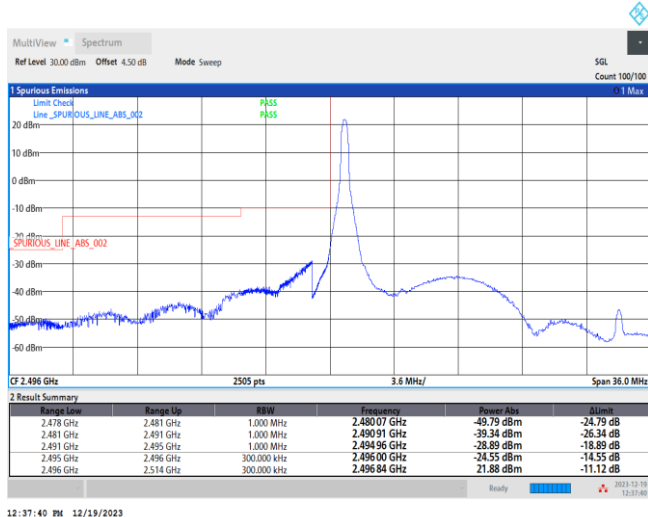


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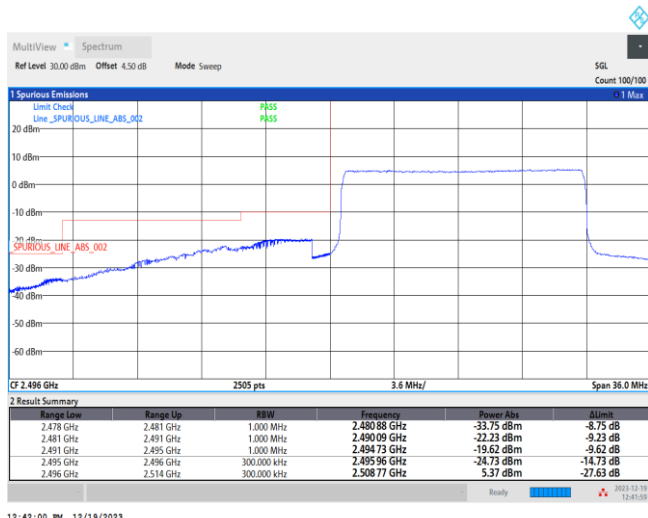
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Band41-15MHz-QPSK-39725-1RB#0



12:37:40 PM 12/19/2023

Band41-15MHz-QPSK-39725-75RB#0



12:42:00 PM 12/19/2023



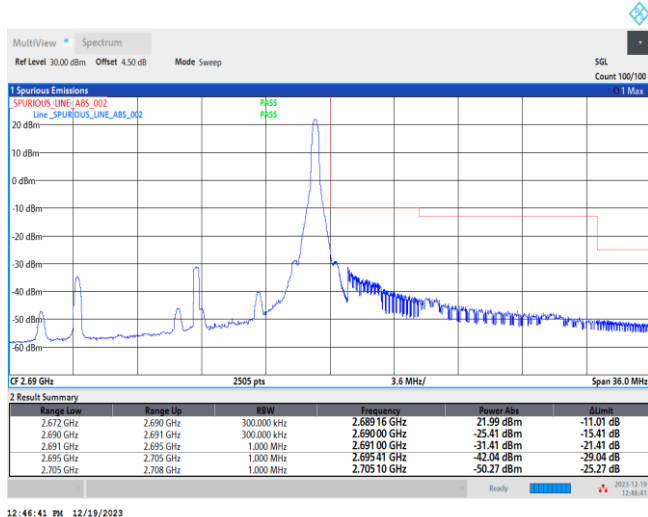
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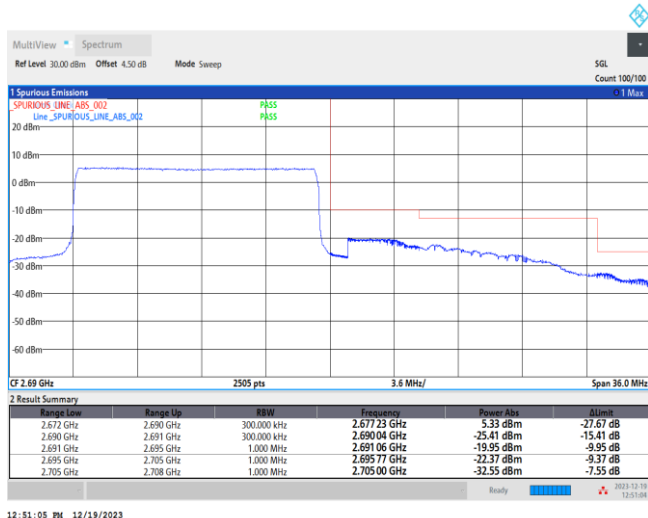


Band41-15MHz-QPSK-41515-1RB#74



12:46:41 PM 12/19/2023

Band41-15MHz-QPSK-41515-75RB#0



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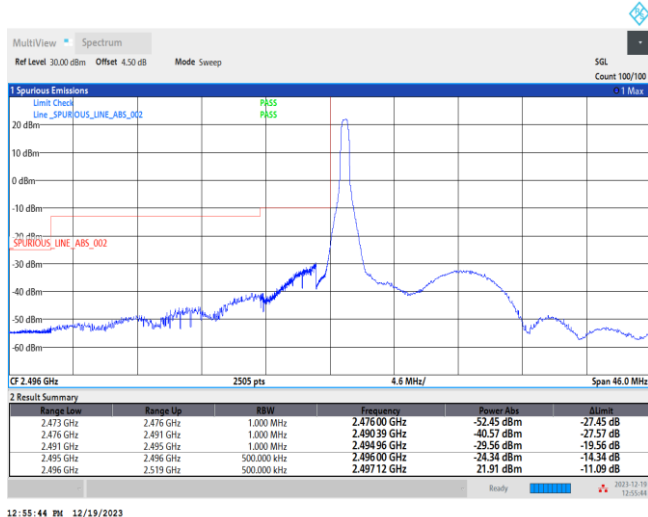


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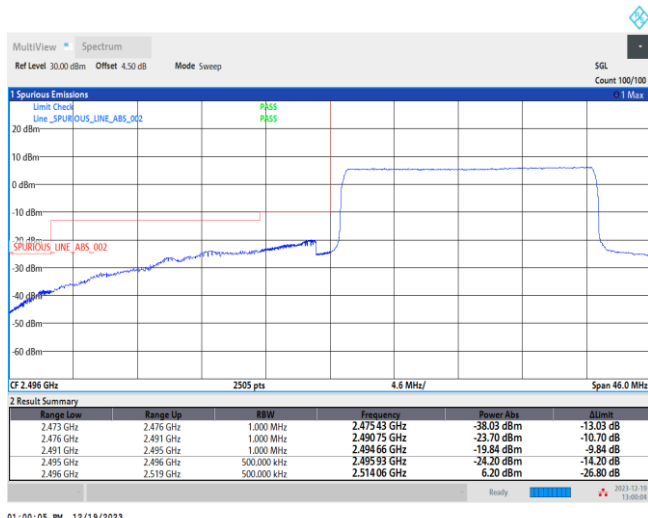
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Band41-20MHz-QPSK-39750-1RB#0



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Band41-20MHz-QPSK-39750-100RB#0



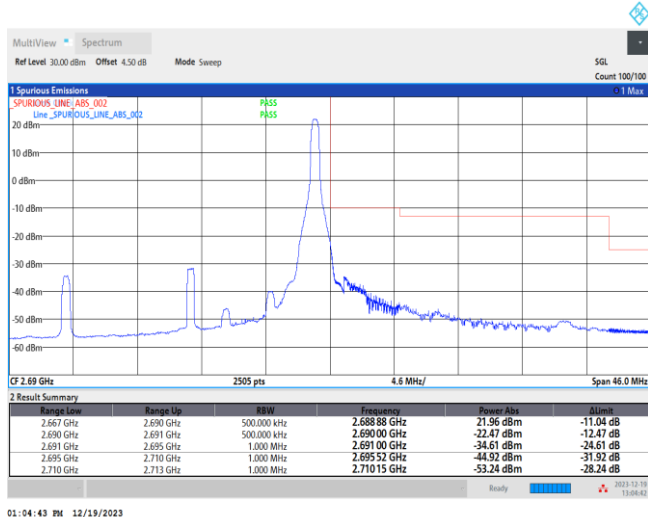
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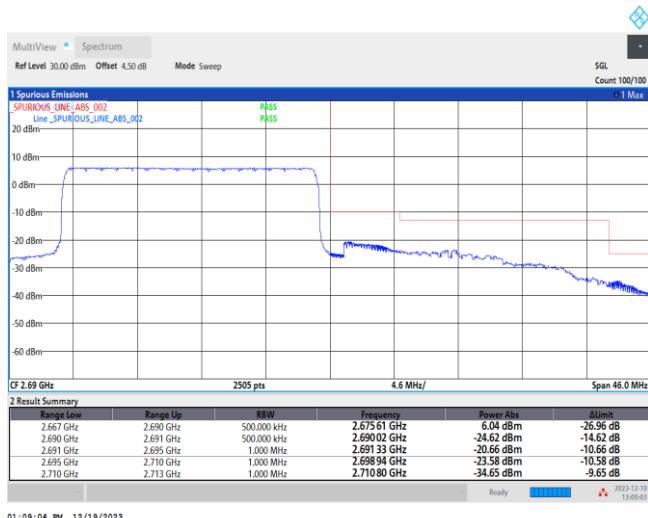
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Band41-20MHz-QPSK-41490-1RB#99



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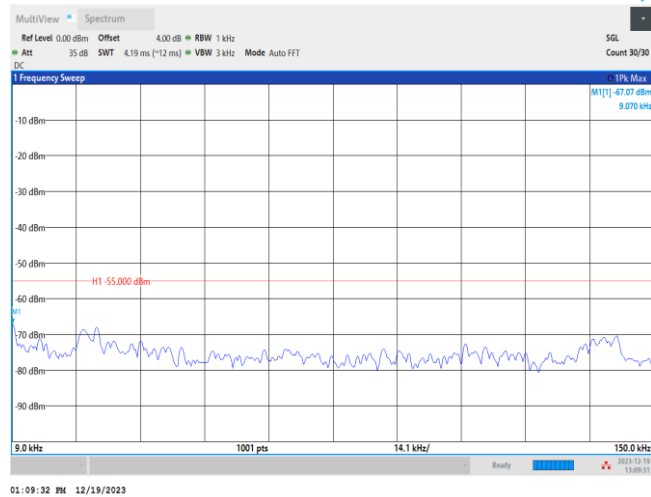
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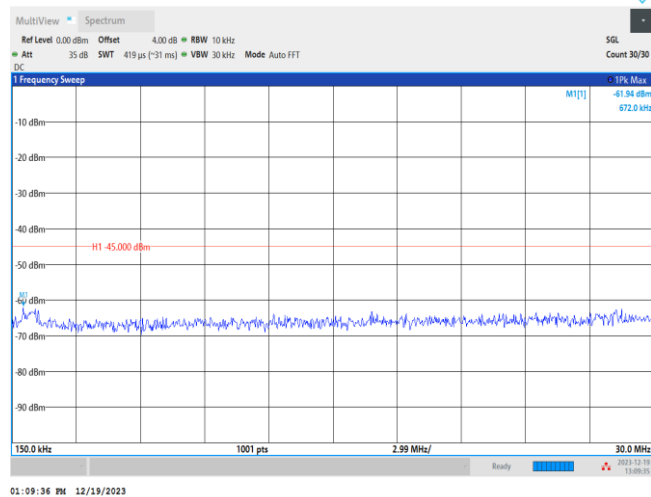
## Conducted Spurious Emission

### Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



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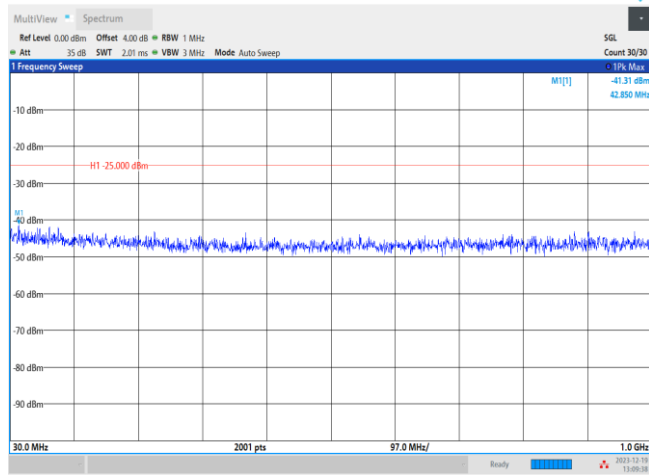
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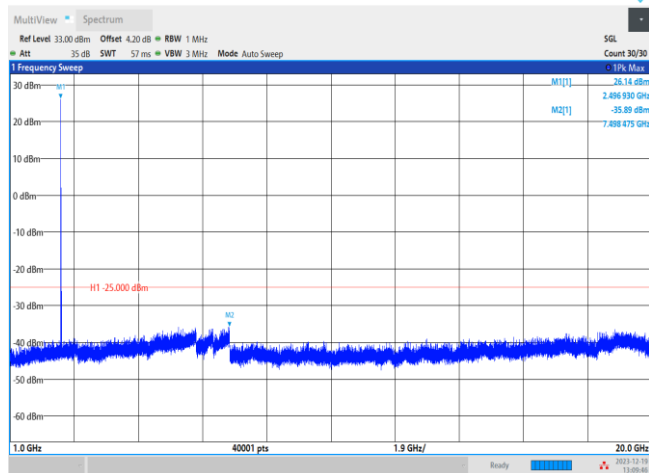
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



01:09:47 PM 12/19/2023

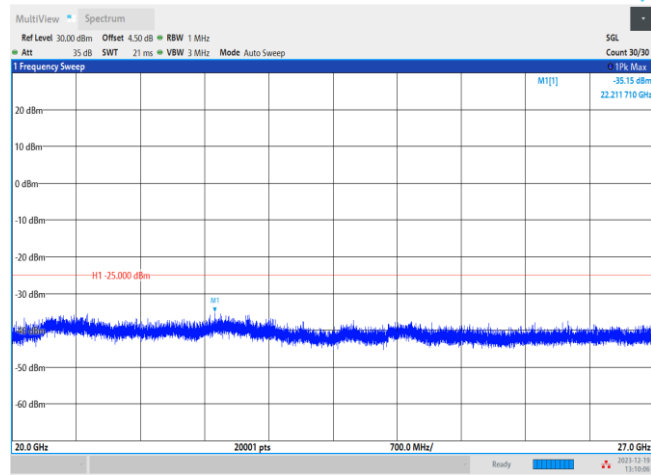


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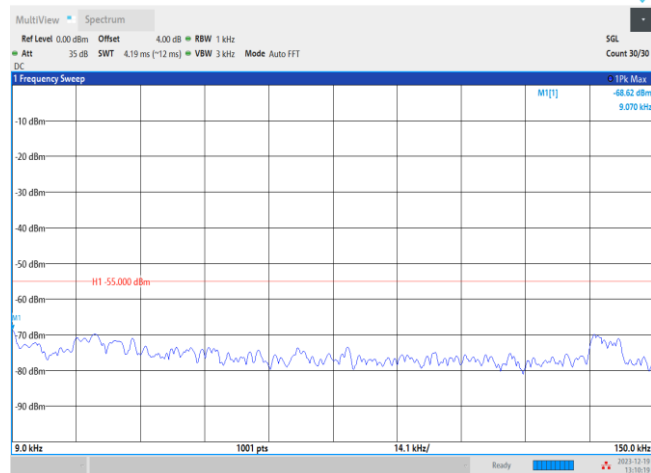
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



01:10:07 PM 12/19/2023

Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



01:10:20 PM 12/19/2023

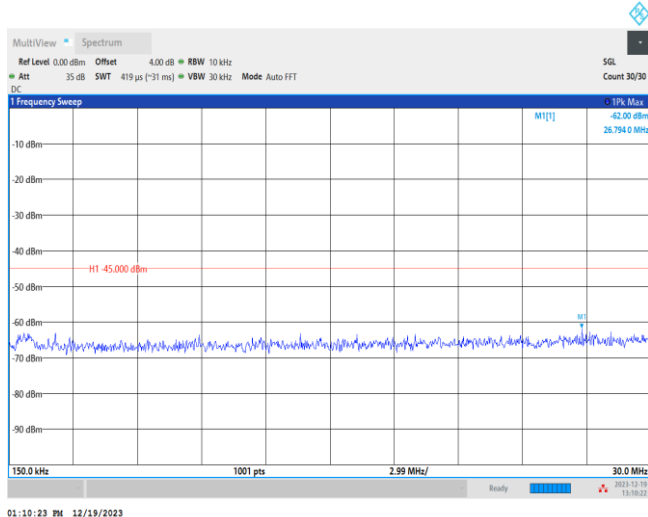


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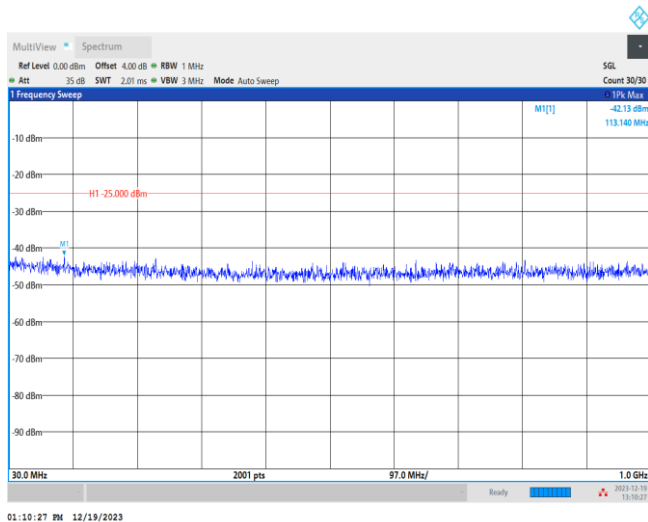
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



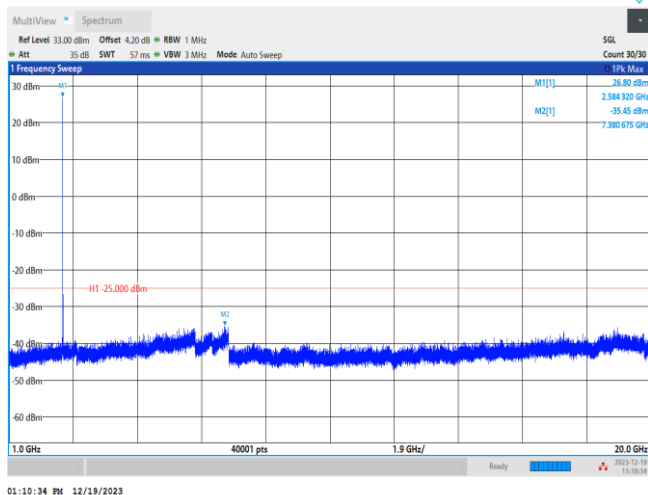
Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



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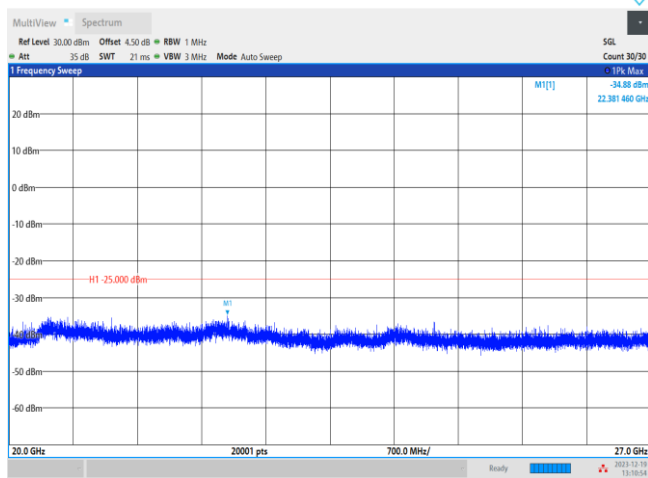
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



01:10:34 PM 12/19/2023

Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz



01:10:54 PM 12/19/2023



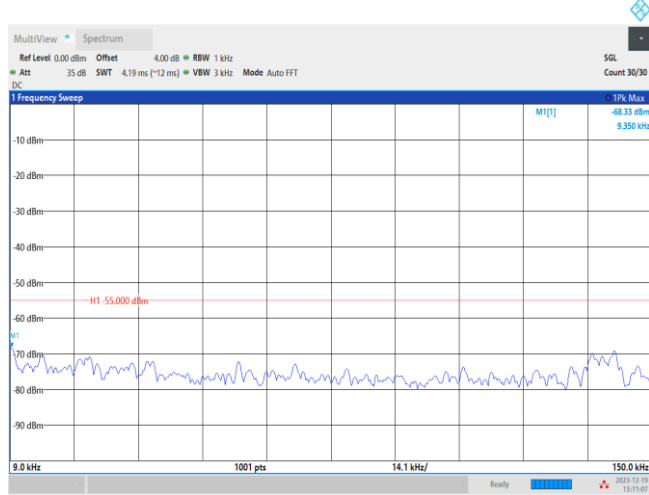
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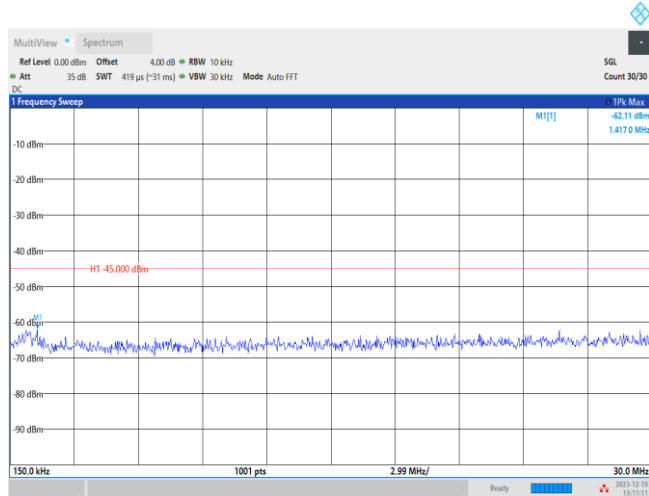


Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



01:11:07 PM 12/19/2023

Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



01:11:11 PM 12/19/2023

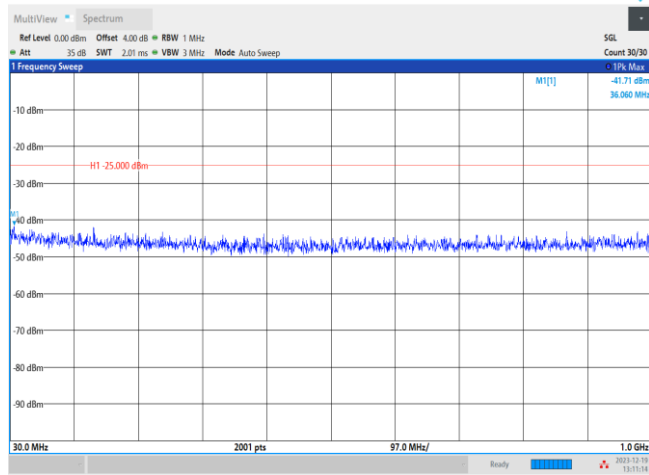


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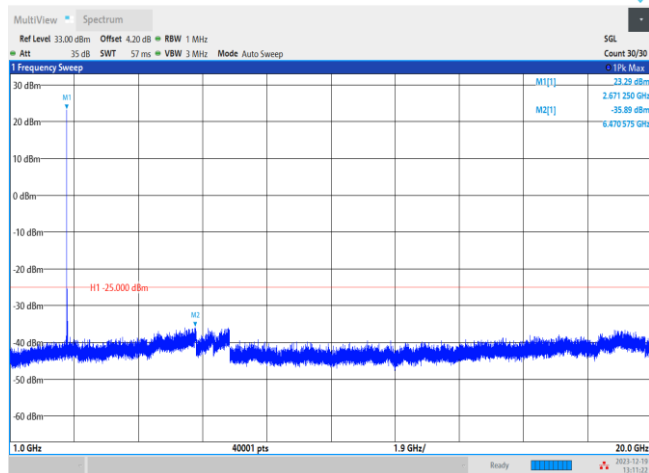
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



01:11:15 PM 12/19/2023

Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



01:11:22 PM 12/19/2023

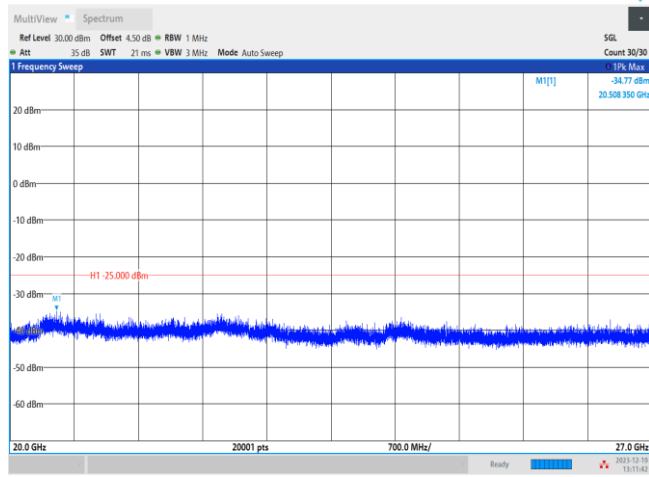


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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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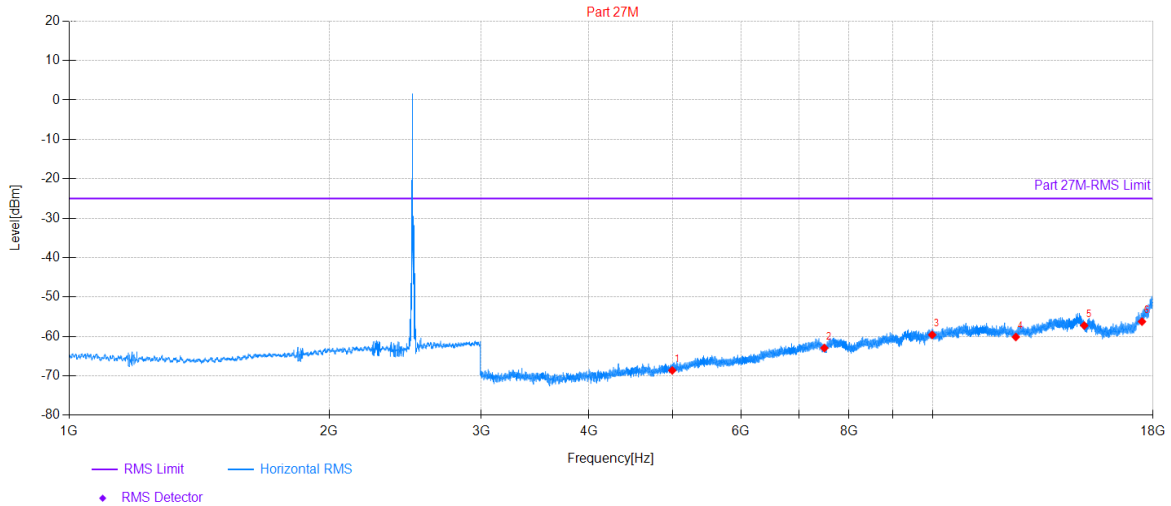
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## Field Strength of Spurious Radiation

Test Band = LTE Band 41\_ 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	4994.18	43.16	-48.01	31.49	-68.62	-25.00	43.62	Horizontal
2	7491.27	41.71	-46.17	36.78	-62.94	-25.00	37.94	Horizontal
3	9988.36	38.93	-41.75	38.49	-59.59	-25.00	34.59	Horizontal
4	12485.45	36.05	-39.84	38.91	-60.14	-25.00	35.14	Horizontal
5	14982.54	35.81	-37.89	40.11	-57.23	-25.00	32.23	Horizontal
6	17479.63	33.99	-36.93	41.97	-56.23	-25.00	31.23	Horizontal



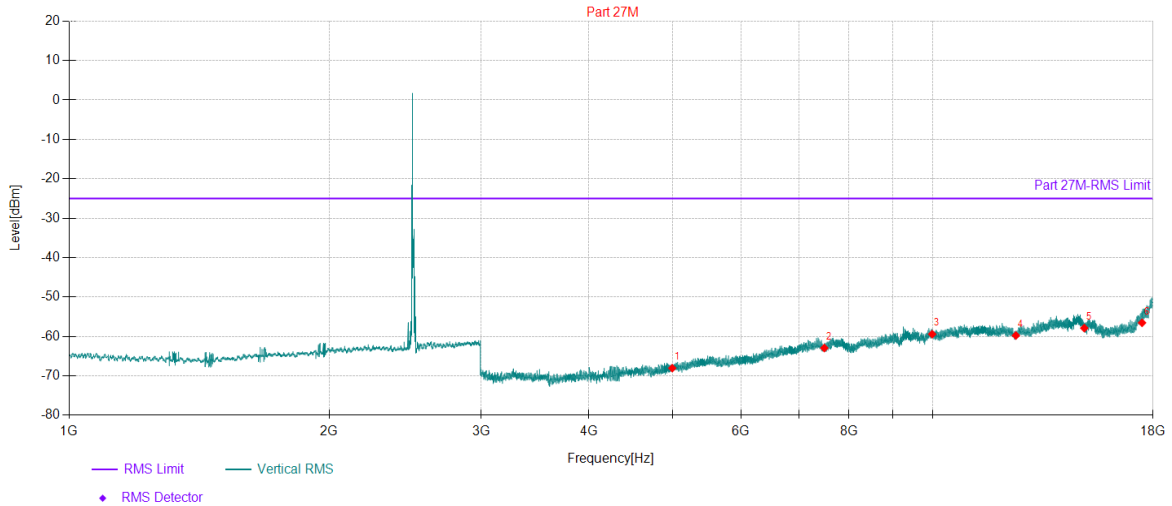
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**Test Band = LTE Band 41\_ TM1**

**Test Channel = Low Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.18	43.74	-48.01	31.49	-68.04	-25.00	43.04	Vertical
2	7491.27	41.71	-46.17	36.78	-62.94	-25.00	37.94	Vertical
3	9988.36	39.10	-41.75	38.49	-59.42	-25.00	34.42	Vertical
4	12485.45	36.44	-39.84	38.91	-59.75	-25.00	34.75	Vertical
5	14982.54	35.16	-37.89	40.11	-57.88	-25.00	32.88	Vertical
6	17479.63	33.68	-36.93	41.97	-56.54	-25.00	31.54	Vertical

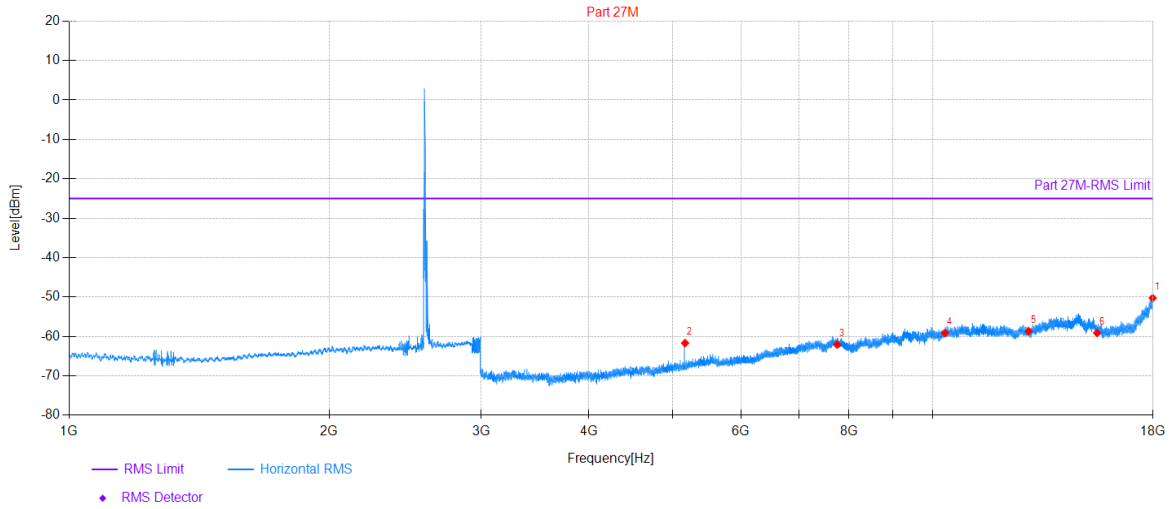


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**Test Band = LTE Band 41\_ TM1**  
**Test Channel = Mid Channel**



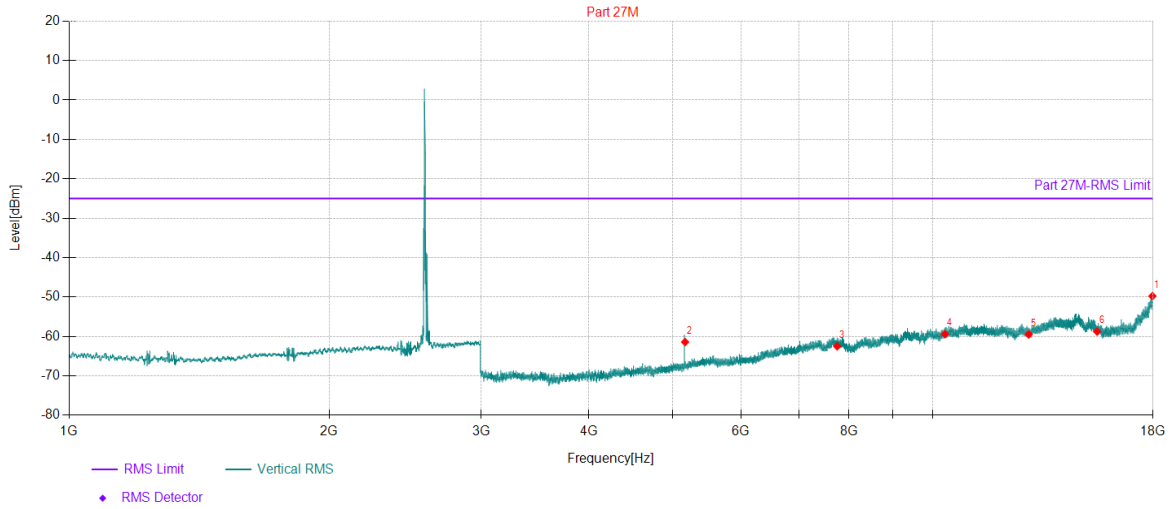
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17985.5	36.37	-36.58	45.21	-50.26	-25.00	25.26	Horizontal
2	5168.18	49.53	-47.87	31.90	-61.69	-25.00	36.69	Horizontal
3	7752.27	41.75	-45.05	36.50	-62.07	-25.00	37.07	Horizontal
4	10336.36	38.50	-41.18	38.80	-59.14	-25.00	34.14	Horizontal
5	12920.45	37.35	-39.42	38.65	-58.68	-25.00	33.68	Horizontal
6	15504.54	35.04	-38.05	39.14	-59.13	-25.00	34.13	Horizontal



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**Test Band = LTE Band 41\_ 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	17970.5	36.93	-36.55	45.11	-49.77	-25.00	24.77	Vertical
2	5168.18	49.80	-47.87	31.90	-61.42	-25.00	36.42	Vertical
3	7752.27	41.34	-45.05	36.50	-62.48	-25.00	37.48	Vertical
4	10336.36	38.24	-41.18	38.80	-59.40	-25.00	34.40	Vertical
5	12920.45	36.54	-39.42	38.65	-59.49	-25.00	34.49	Vertical
6	15504.54	35.41	-38.05	39.14	-58.76	-25.00	33.76	Vertical

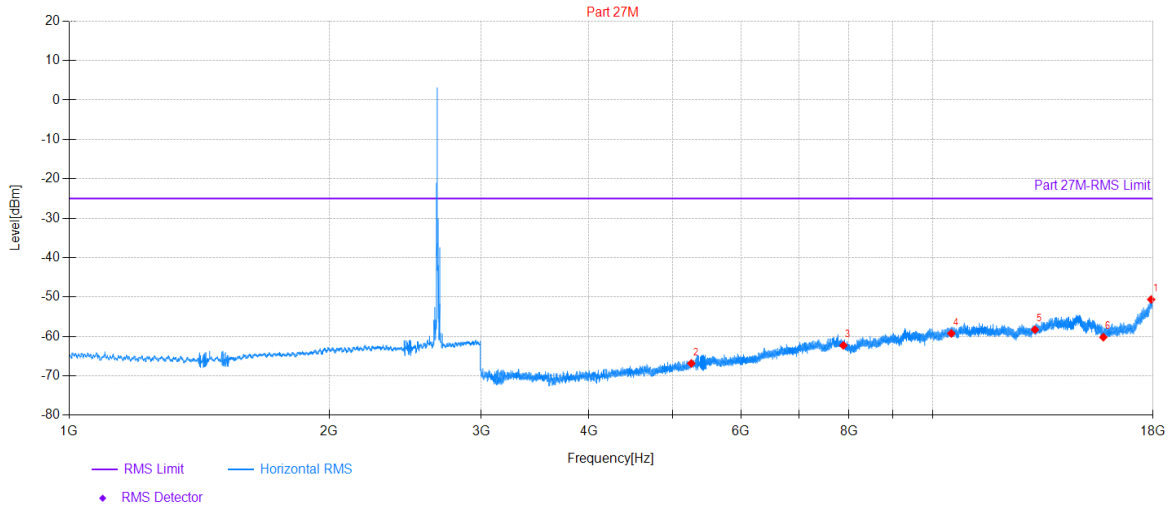


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**Test Band = LTE Band 41\_ TM1**

**Test Channel = High Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17912.5	36.35	-36.46	44.74	-50.63	-25.00	25.63	Horizontal
2	5255.18	44.14	-47.83	32.11	-66.84	-25.00	41.84	Horizontal
3	7882.77	42.00	-45.36	36.34	-62.28	-25.00	37.28	Horizontal
4	10510.36	37.77	-40.71	38.96	-59.24	-25.00	34.24	Horizontal
5	13137.95	36.59	-38.51	38.92	-58.27	-25.00	33.27	Horizontal
6	15765.54	34.65	-38.22	38.64	-60.19	-25.00	35.19	Horizontal



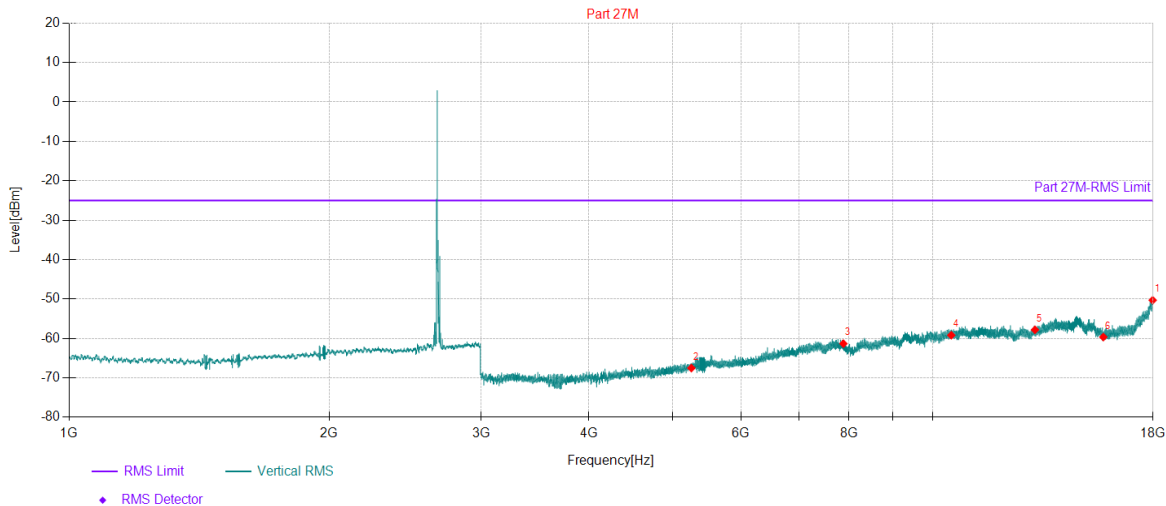
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**Test Band = LTE Band 41\_ TM1**  
**Test Channel = High Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17983	36.35	-36.57	45.19	-50.29	-25.00	25.29	Vertical
2	5255.18	43.46	-47.83	32.11	-67.52	-25.00	42.52	Vertical
3	7882.77	42.96	-45.36	36.34	-61.32	-25.00	36.32	Vertical
4	10510.36	37.83	-40.71	38.96	-59.18	-25.00	34.18	Vertical
5	13137.95	37.05	-38.51	38.92	-57.81	-25.00	32.81	Vertical
6	15765.54	35.19	-38.22	38.64	-59.65	-25.00	34.65	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
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-0.90	-0.000347	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-1.30	-0.000501	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	1.80	0.000694	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	1.50	0.000578	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	2.30	0.000887	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-0.20	-0.000077	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-0.60	-0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	0.50	0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	2.00	0.000771	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	0.50	0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-0.50	-0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	1.10	0.000424	PASS

---End of Attachment---



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