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Appendix B.12

LTE Band 38



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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
Band38	5MHz	QPSK	37775	1RB#0	23.23	23.63	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.33	23.73	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.21	23.61	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.37	22.77	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.19	23.59	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.30	23.7	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.15	23.55	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.32	22.72	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.18	23.58	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.28	23.68	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.11	23.51	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.29	22.69	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.49	22.89	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.60	23	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.51	22.91	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.44	21.84	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.46	22.86	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.56	22.96	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.40	22.8	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.38	21.78	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.40	22.8	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.50	22.9	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.33	22.73	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.33	21.73	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.26	21.66	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.40	21.8	33.00	PASS



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Band38	5MHz	64QAM	37775	1RB#24	21.29	21.69	33.00	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.35	20.75	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.23	21.63	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.33	21.73	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.18	21.58	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.31	20.71	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.19	21.59	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.27	21.67	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.14	21.54	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.28	20.68	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.35	23.75	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.44	23.84	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.29	23.69	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.50	22.9	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.29	23.69	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.37	23.77	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.20	23.6	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.37	22.77	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.26	23.66	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.36	23.76	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.19	23.59	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.42	22.82	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.62	23.02	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.77	23.17	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.57	22.97	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.53	21.93	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.58	22.98	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.63	23.03	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.47	22.87	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.42	21.82	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.51	22.91	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.58	22.98	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.42	22.82	33.00	PASS



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Band38	10MHz	16QAM	38200	50RB#0	21.46	21.86	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.38	21.78	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.53	21.93	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.33	21.73	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.46	20.86	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.33	21.73	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.43	21.83	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.25	21.65	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.37	20.77	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.27	21.67	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.38	21.78	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.20	21.6	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.35	20.75	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.24	23.64	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.40	23.8	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.25	23.65	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.46	22.86	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.24	23.64	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.30	23.7	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.13	23.53	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.36	22.76	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.17	23.57	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.28	23.68	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.12	23.52	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.33	22.73	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.50	22.9	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.67	23.07	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.51	22.91	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.49	21.89	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.48	22.88	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.56	22.96	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.37	22.77	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.39	21.79	33.00	PASS



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Band38	15MHz	16QAM	38175	1RB#0	22.41	22.81	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.50	22.9	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.32	22.72	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.35	21.75	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.28	21.68	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.43	21.83	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.30	21.7	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.36	20.76	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.26	21.66	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.34	21.74	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.15	21.55	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.35	20.75	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.22	21.62	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.31	21.71	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.10	21.5	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.29	20.69	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.07	23.47	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.44	23.84	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.01	23.41	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.45	22.85	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.09	23.49	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.36	23.76	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.95	23.35	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.40	22.8	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.01	23.41	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.35	23.75	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.96	23.36	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.38	22.78	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.37	22.77	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.76	23.16	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.29	22.69	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.50	21.9	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.35	22.75	33.00	PASS



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Band38	20MHz	16QAM	38000	1RB#49	22.66	23.06	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.23	22.63	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.43	21.83	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.25	22.65	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.62	23.02	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.20	22.6	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.39	21.79	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.11	21.51	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.52	21.92	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.04	21.44	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.45	20.85	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.13	21.53	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.43	21.83	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.00	21.4	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.39	20.79	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.02	21.42	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.39	21.79	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.96	21.36	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.35	20.75	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
Band38	20MHz	QPSK	37850	100RB#0	9.38	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.36	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.98	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	10.06	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.88	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.88	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	9.78	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.50	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.62	13	PASS



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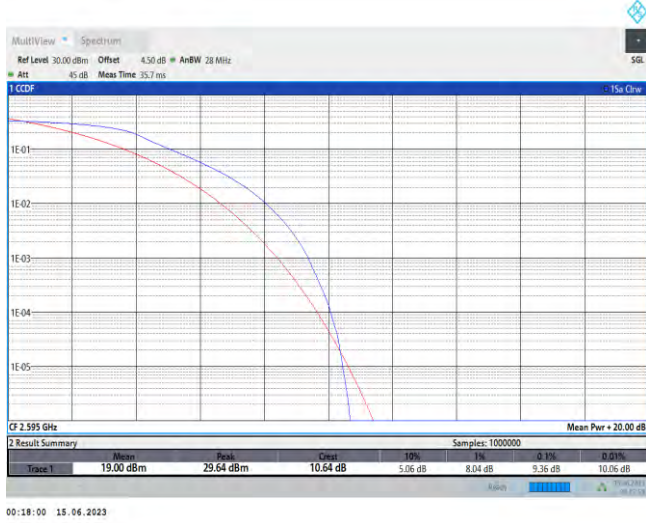
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Test Graphs

Band38-20MHz-QPSK-37850-100RB#0



Band38-20MHz-QPSK-38000-100RB#0

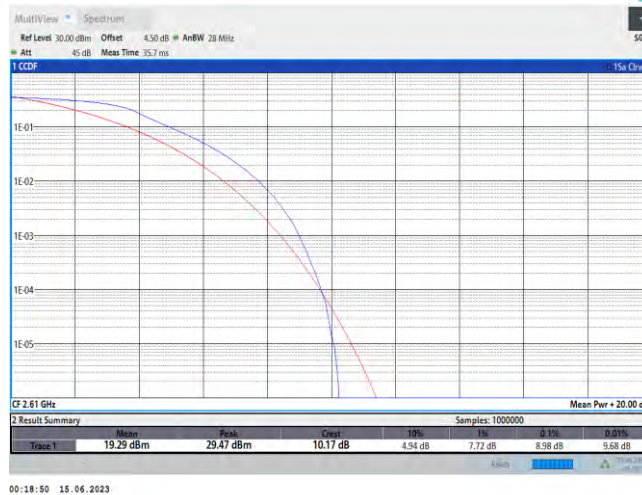


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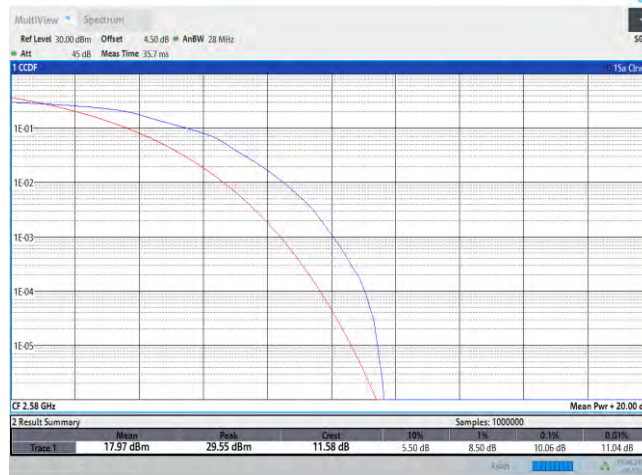
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Band38-20MHz-QPSK-38150-100RB#0



00:18:50 15.06.2023

Band38-20MHz-16QAM-37850-100RB#0



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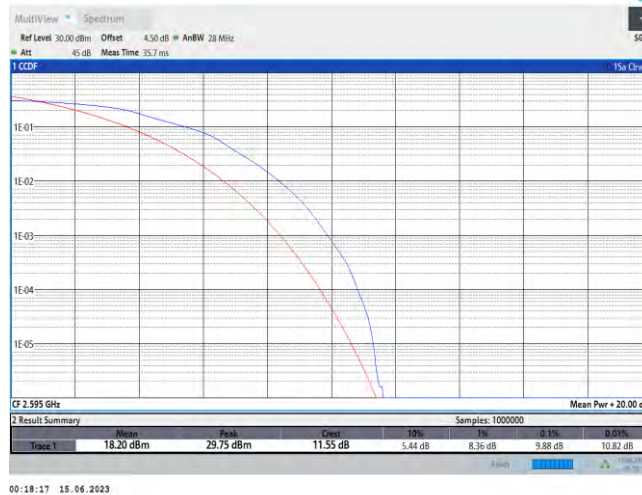


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Band38-20MHz-16QAM-38000-100RB#0



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Band38-20MHz-16QAM-38150-100RB#0



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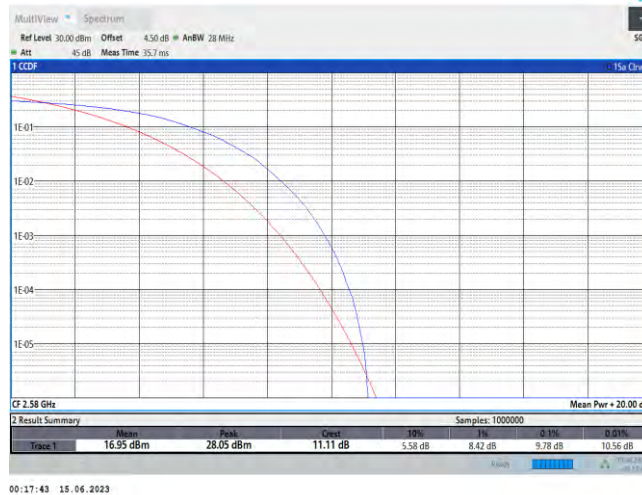


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Band38-20MHz-64QAM-37850-100RB#0



Band38-20MHz-64QAM-38000-100RB#0



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Band38-20MHz-64QAM-38150-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#0	PASS	PASS



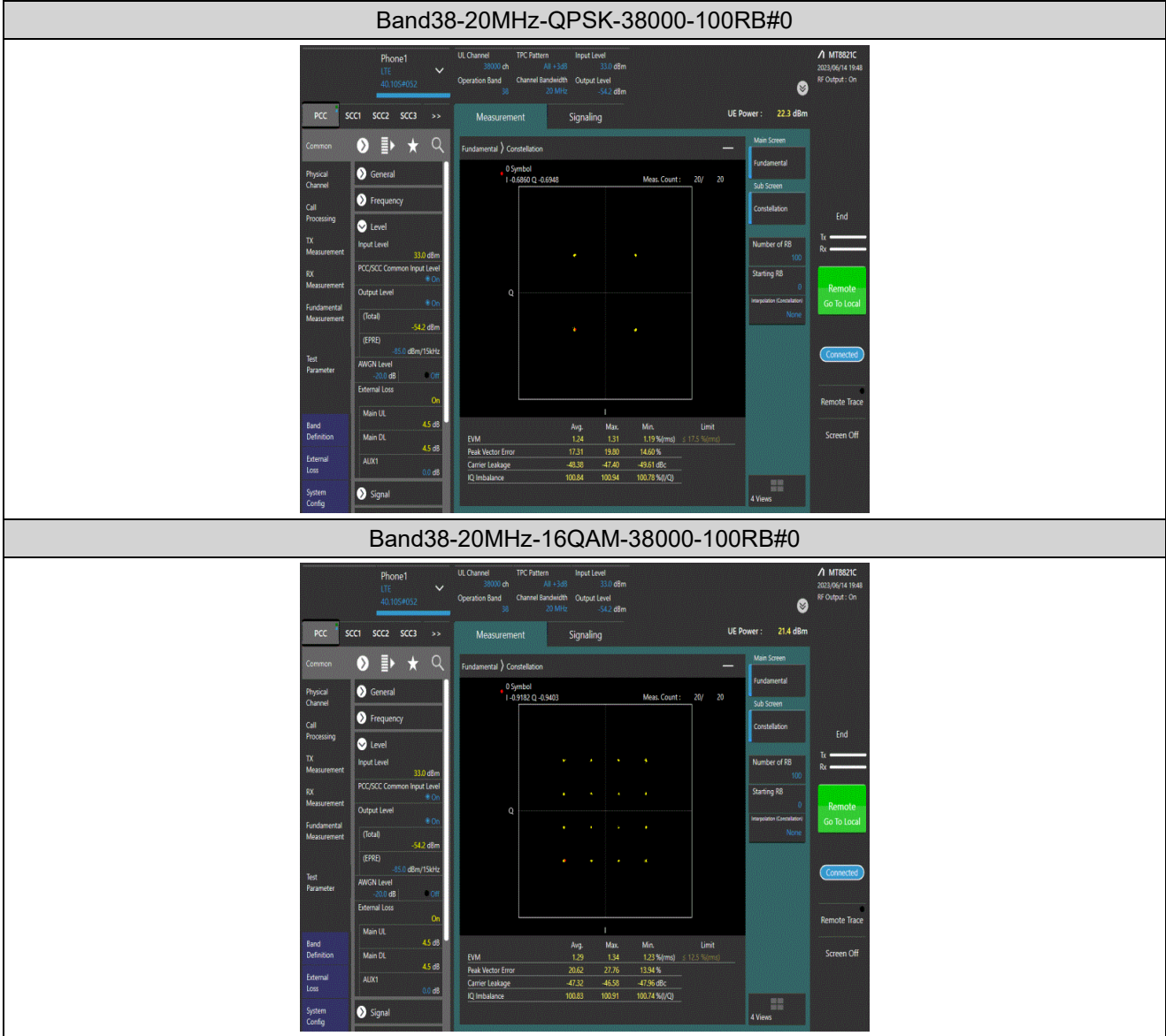
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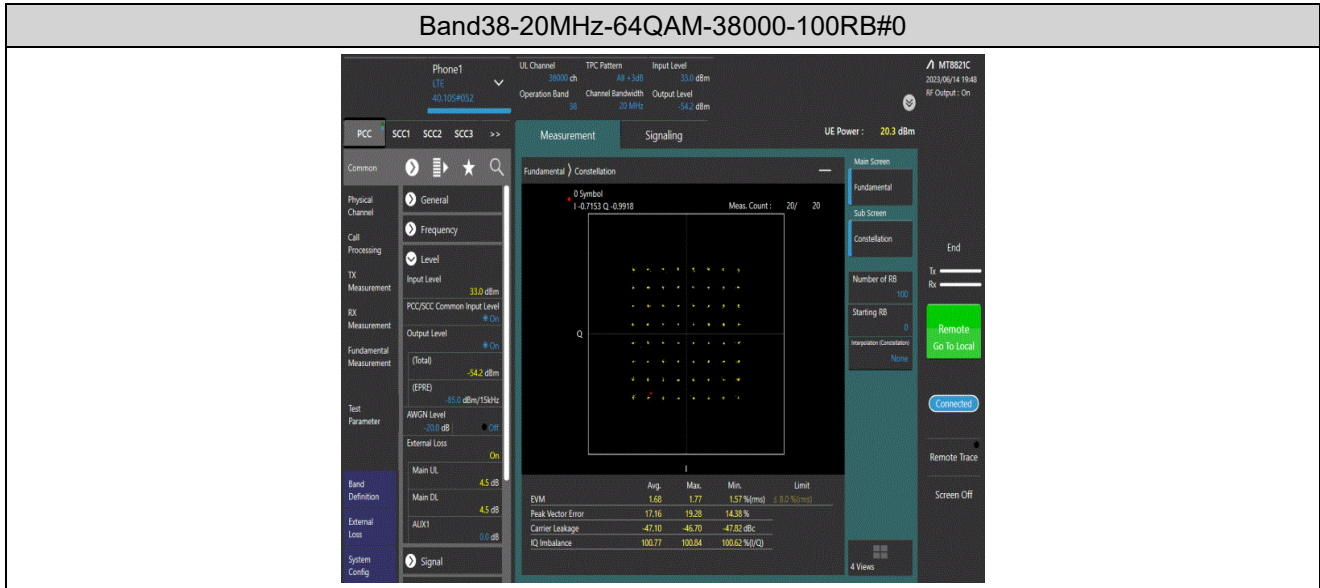
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.470	4.72	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.450	4.73	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.464	4.80	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.469	4.72	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.458	4.73	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.467	4.80	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.497	4.96	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.497	4.75	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.483	4.75	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.931	9.30	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.928	9.32	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.916	9.34	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.975	9.38	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.924	9.54	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.923	9.26	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.946	9.54	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.950	10.02	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.942	9.44	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.463	15.18	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.470	16.62	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.414	14.25	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.470	14.82	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.475	14.25	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.402	14.13	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.453	16.80	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.444	14.55	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.472	14.55	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.875	18.76	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.900	20.08	PASS



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Report No.: SEWM2306000195RG01

Rev.: 01

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Band38	20MHz	QPSK	38150	100RB#0	17.923	18.84	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.775	18.68	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.869	18.88	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.874	19.04	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.928	18.68	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.840	19.56	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.871	18.68	PASS



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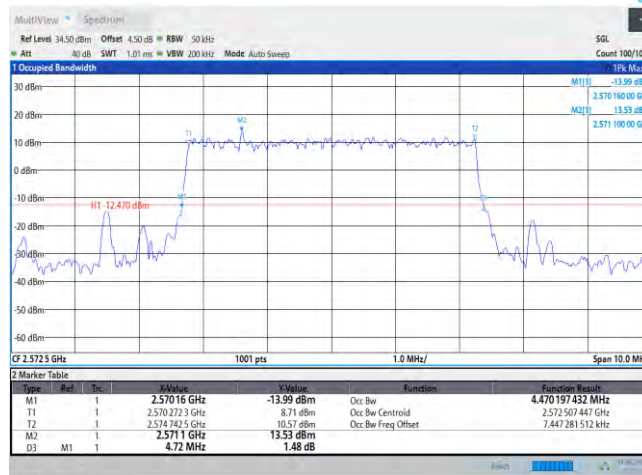
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Test Graphs

Band38-5MHz-QPSK-37775-25RB#0



Band38-5MHz-QPSK-38000-25RB#0



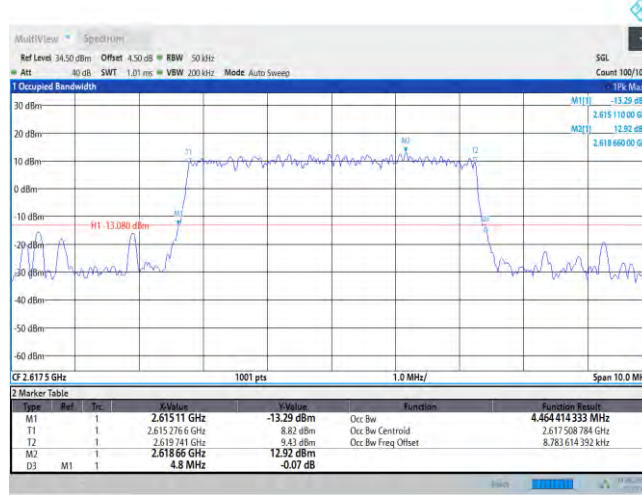
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Band38-5MHz-QPSK-38225-25RB#0



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Band38-5MHz-16QAM-37775-25RB#0



23:16:36 14.06.2023



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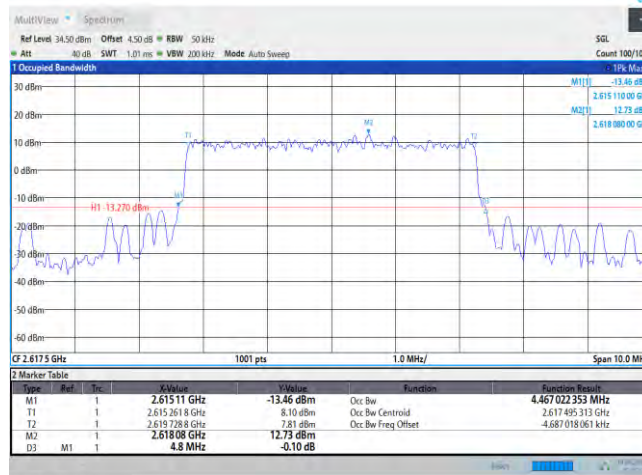
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Band38-5MHz-16QAM-38000-25RB#0



23:17:16 14.06.2023

Band38-5MHz-16QAM-38225-25RB#0



23:17:56 14.06.2023

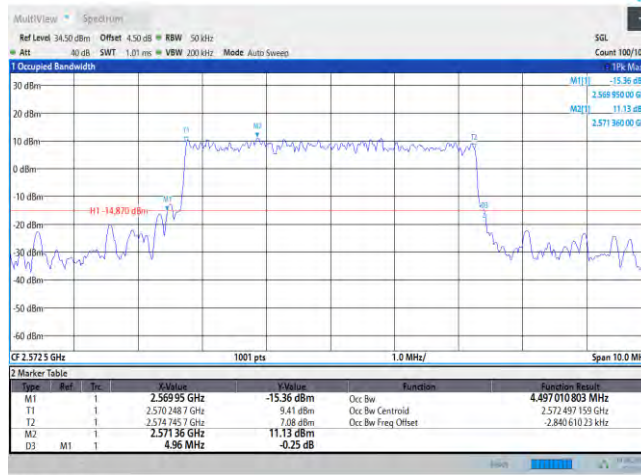


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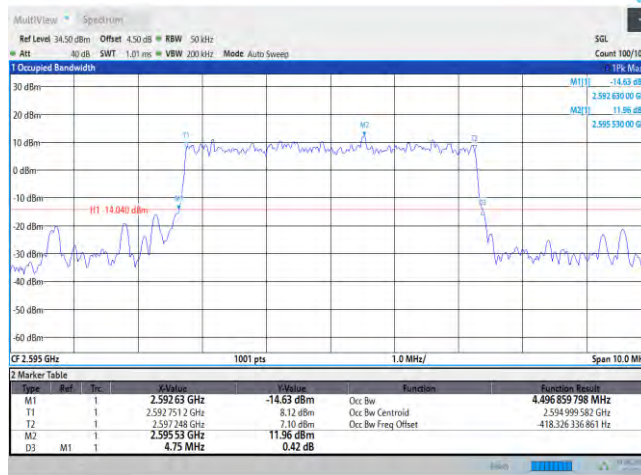
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Band38-5MHz-64QAM-37775-25RB#0



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Band38-5MHz-64QAM-38000-25RB#0



23:17:29 14.06.2023

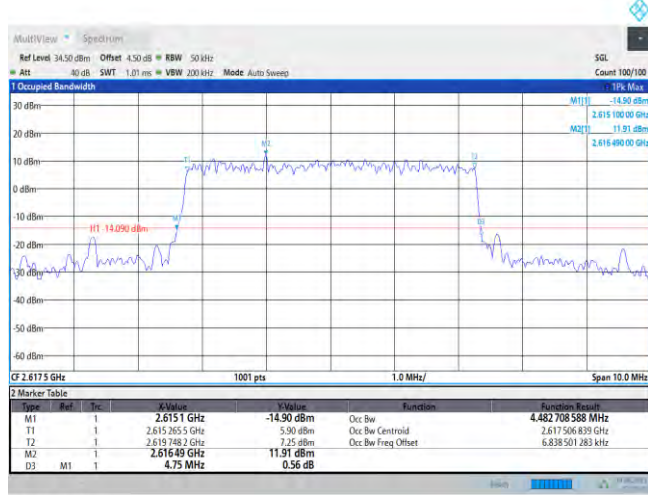


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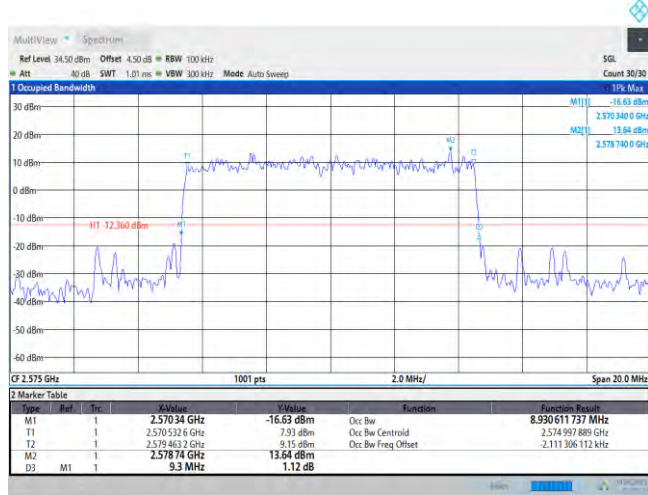
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Band38-5MHz-64QAM-38225-25RB#0



23:18:09 14.06.2023

Band38-10MHz-QPSK-37800-50RB#0



23:18:58 14.06.2023



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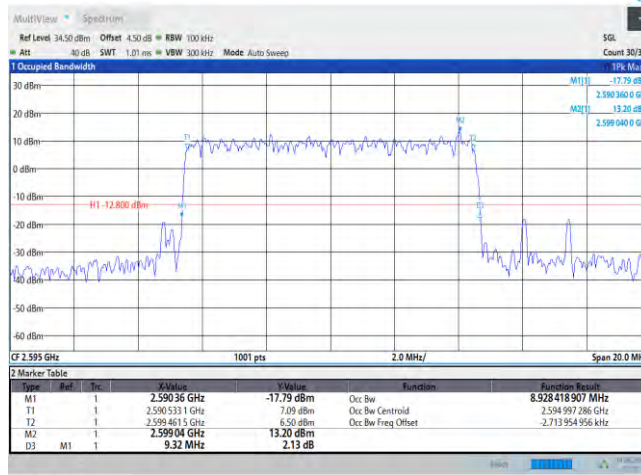
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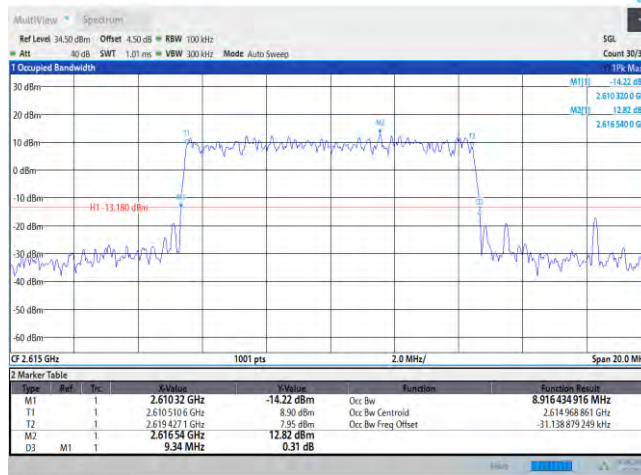
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Band38-10MHz-QPSK-38000-50RB#0



23:19:38 14.06.2023

Band38-10MHz-QPSK-38200-50RB#0



23:20:18 14.06.2023



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Band38-10MHz-16QAM-37800-50RB#0



23:19:11 14.06.2023

Band38-10MHz-16QAM-38000-50RB#0



00:16:36 31.05.2023



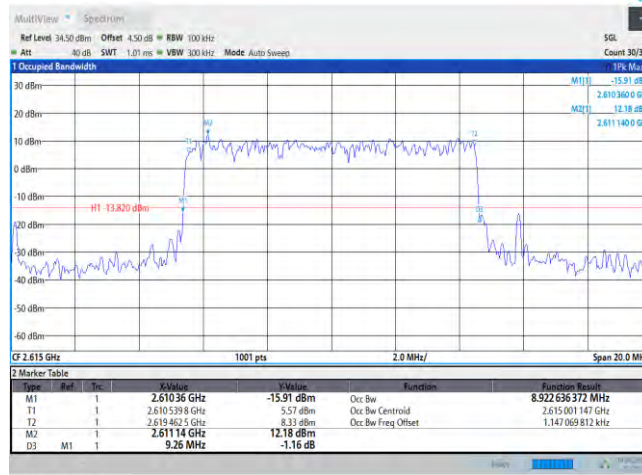
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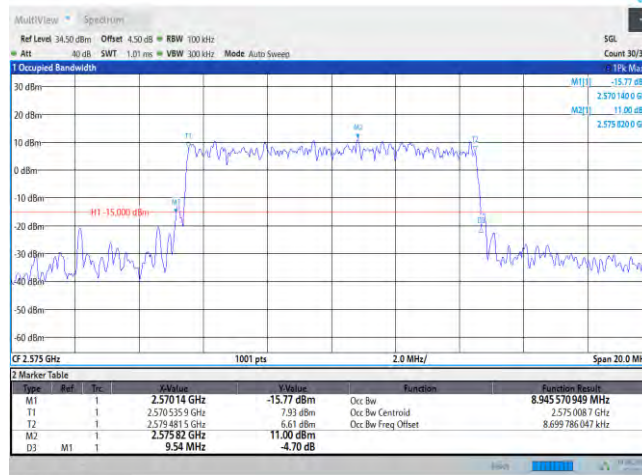
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Band38-10MHz-16QAM-38200-50RB#0



23:20:31 14.06.2023

Band38-10MHz-64QAM-37800-50RB#0



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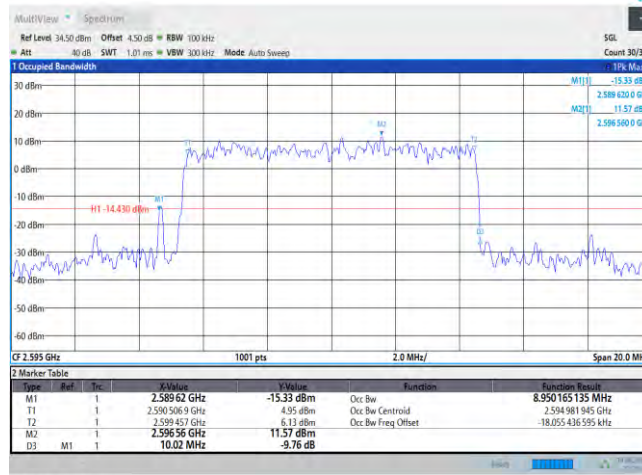


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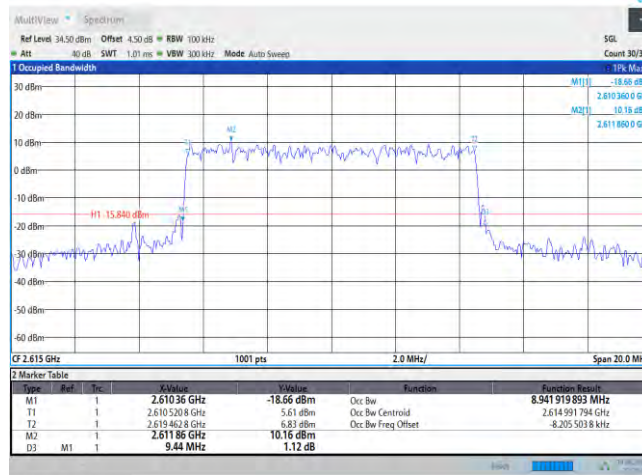
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Band38-10MHz-64QAM-38000-50RB#0



23:20:04 14.06.2023

Band38-10MHz-64QAM-38200-50RB#0



23:20:44 14.06.2023



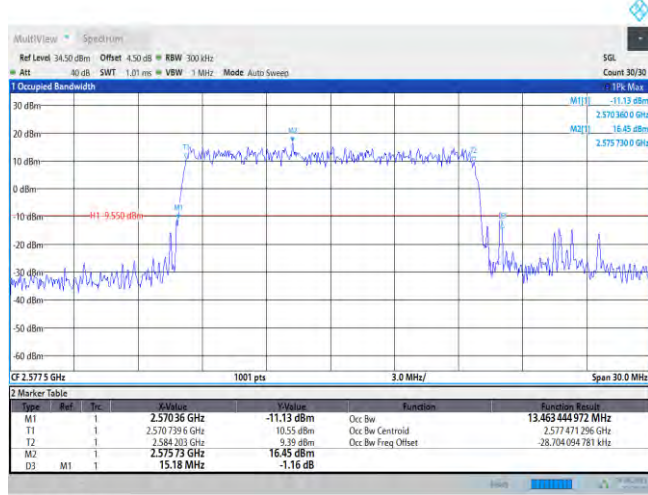
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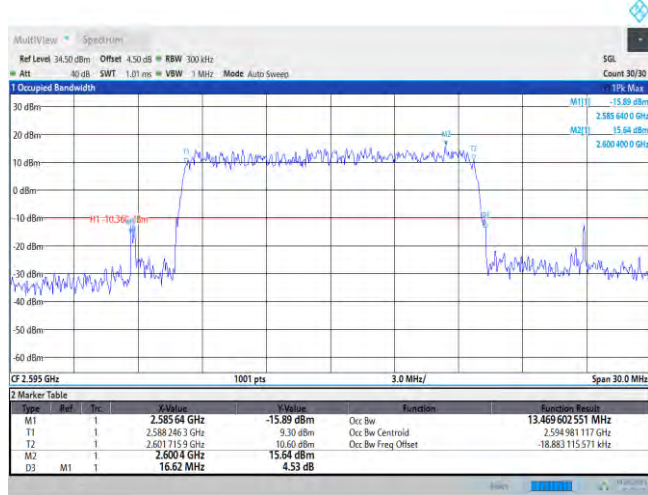
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Band38-15MHz-QPSK-37825-75RB#0



23:21:18 14.06.2023

Band38-15MHz-QPSK-38000-75RB#0



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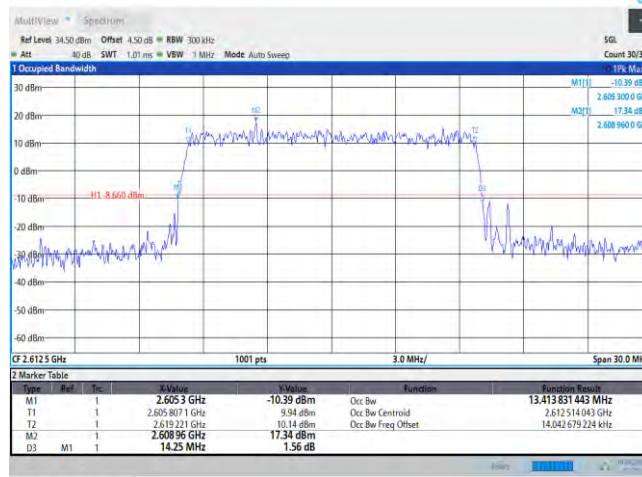


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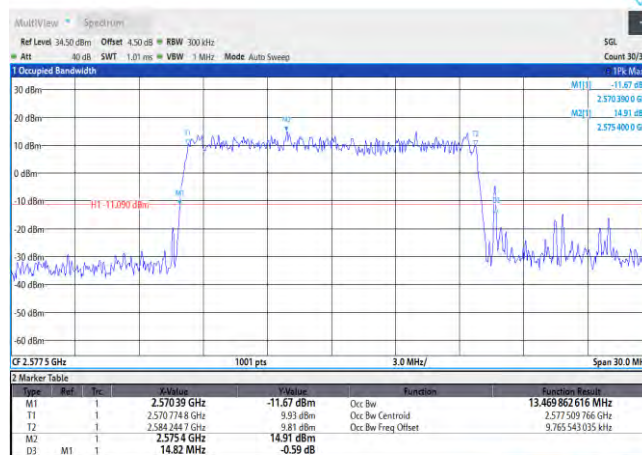
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Band38-15MHz-QPSK-38175-75RB#0



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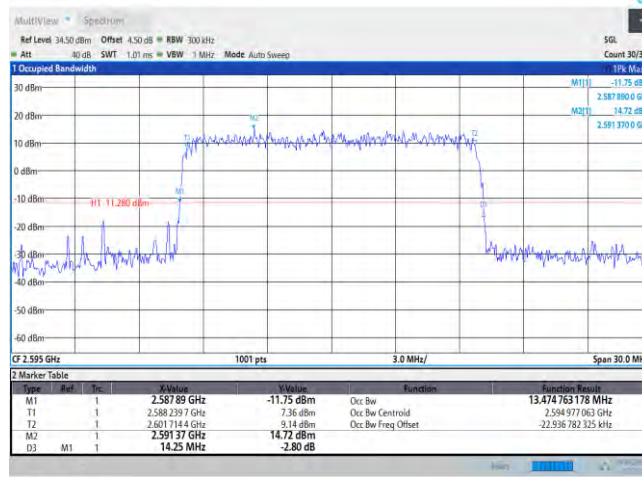
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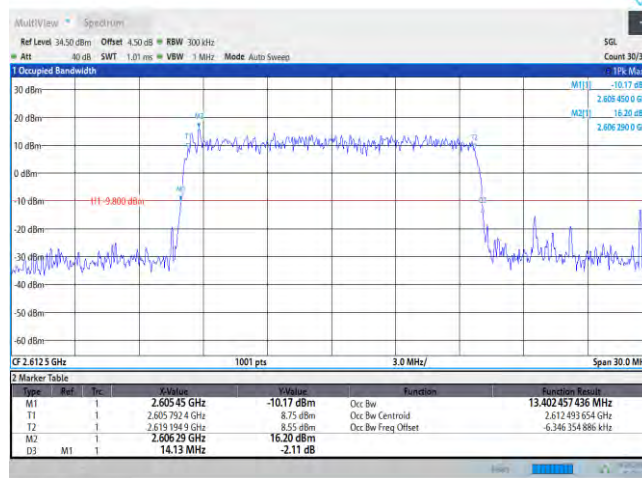
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Band38-15MHz-16QAM-38000-75RB#0



23:22:12 14.06.2023

Band38-15MHz-16QAM-38175-75RB#0



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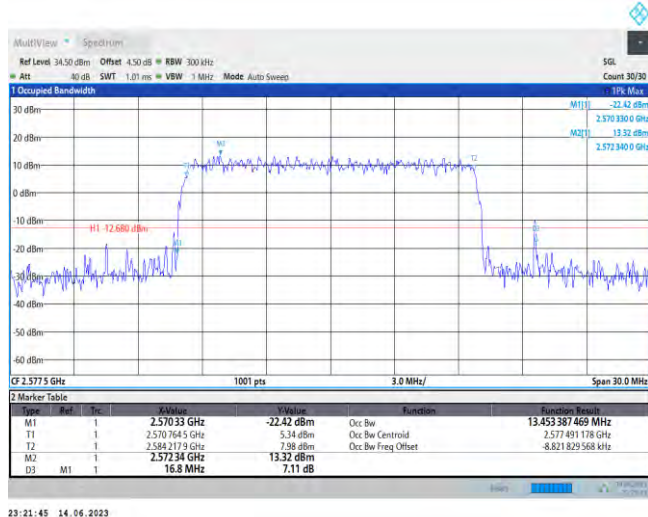


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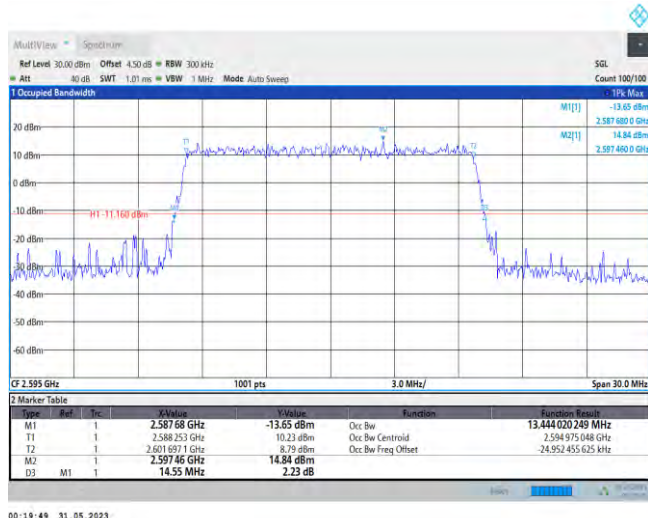
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Band38-15MHz-64QAM-37825-75RB#0



23:21:45 14.06.2023

Band38-15MHz-64QAM-38000-75RB#0



00:19:49 31.05.2023



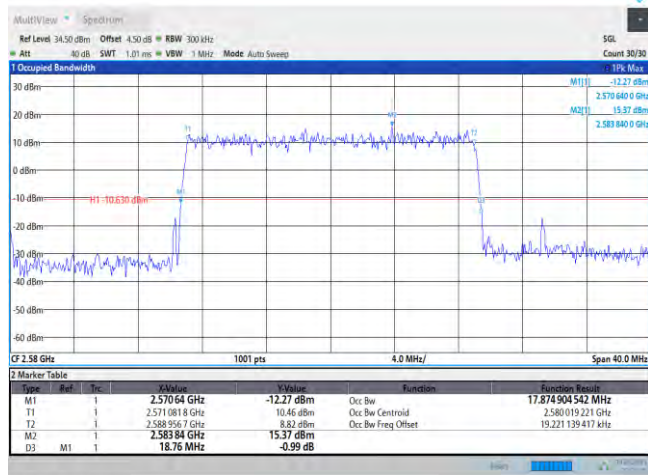
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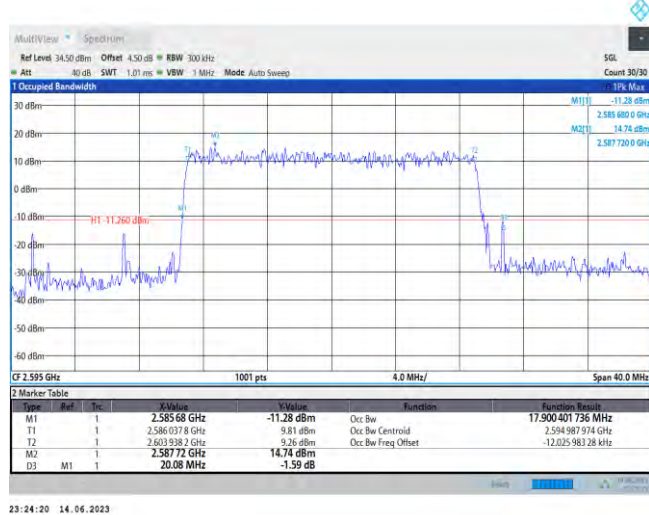


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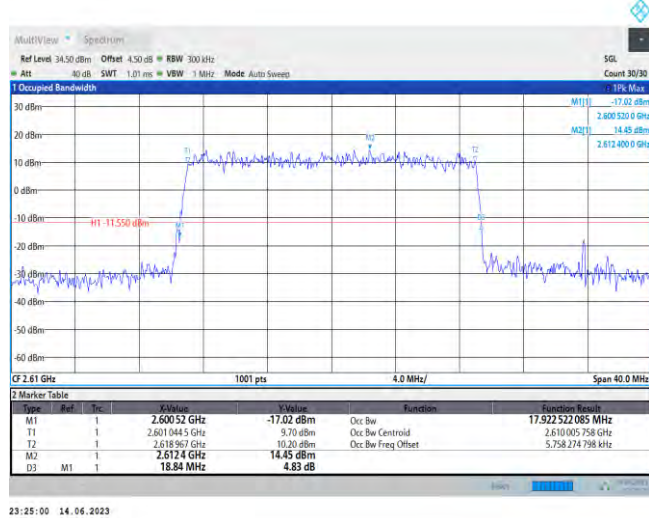
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Band38-20MHz-QPSK-38000-100RB#0



Band38-20MHz-QPSK-38150-100RB#0



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Band38-20MHz-16QAM-37850-100RB#0



23:23:53 14.06.2023

Band38-20MHz-16QAM-38000-100RB#0



23:24:33 14.06.2023



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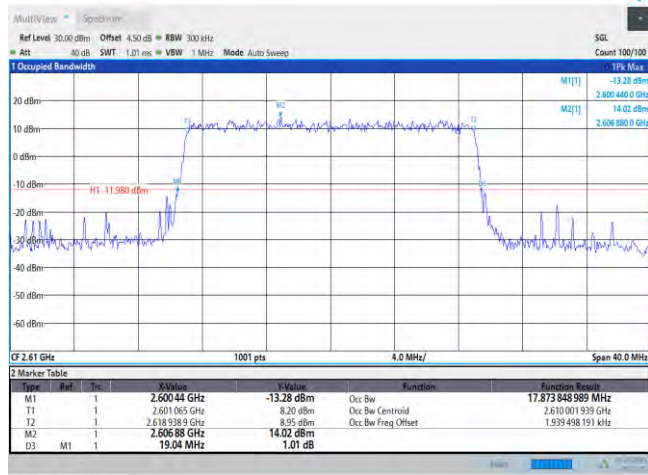
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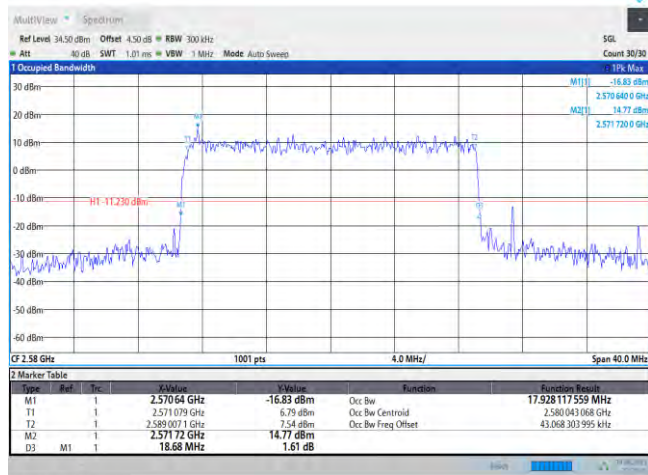
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Band38-20MHz-16QAM-38150-100RB#0



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Band38-20MHz-64QAM-37850-100RB#0



23:24:05 14.06.2023



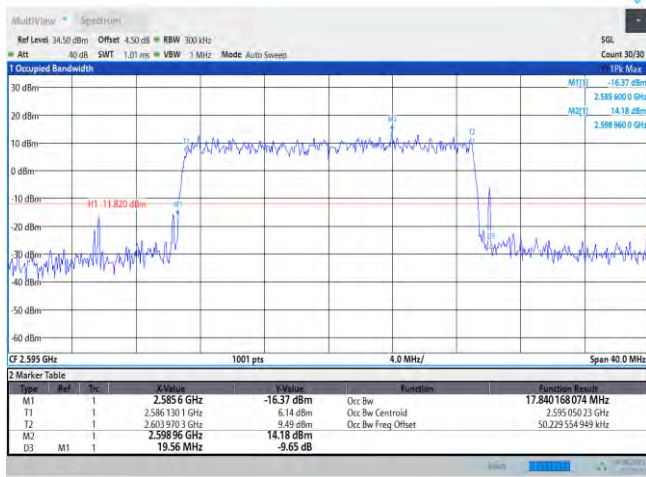
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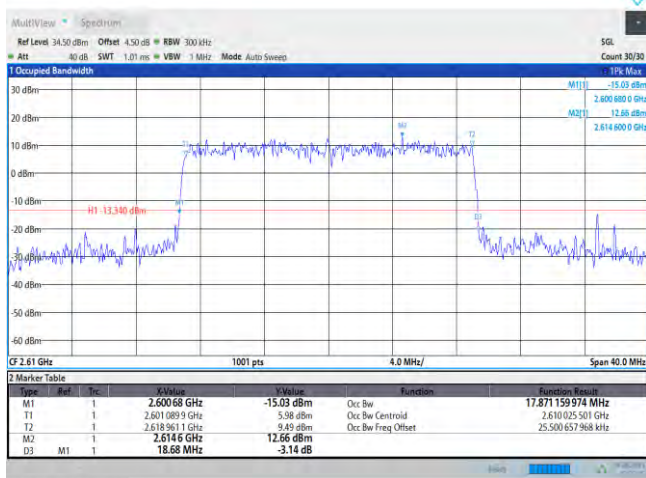
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Band38-20MHz-64QAM-38000-100RB#0



23:24:46 14.06.2023

Band38-20MHz-64QAM-38150-100RB#0



23:25:26 14.06.2023



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Band Edge

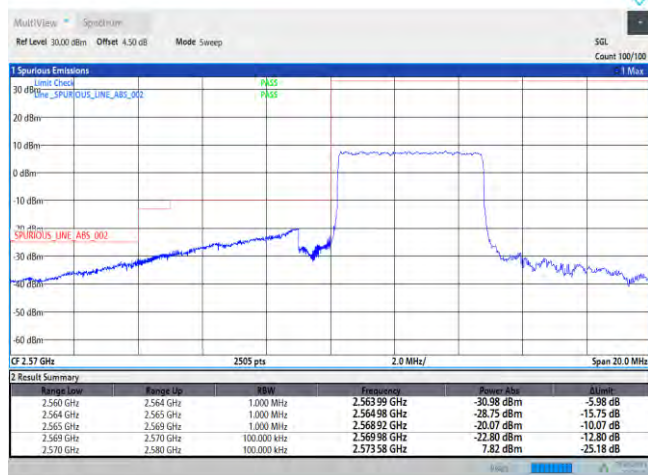
Test Graphs

Band38-5MHz-QPSK-37775-1RB#0



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Band38-5MHz-QPSK-37775-25RB#0



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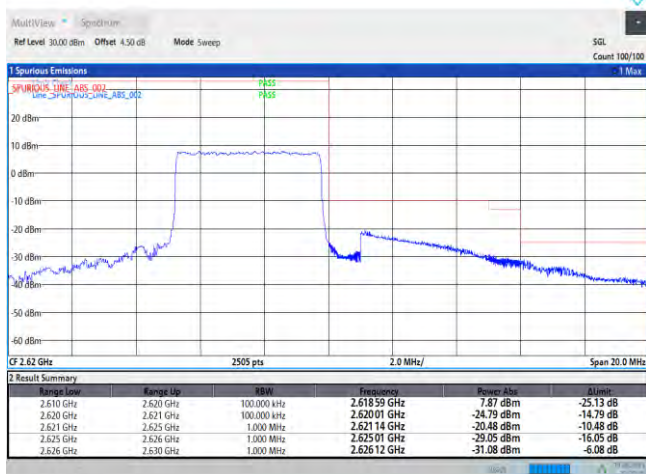
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Band38-5MHz-QPSK-38225-1RB#24



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Band38-5MHz-QPSK-38225-25RB#0



23:37:28 14.06.2023



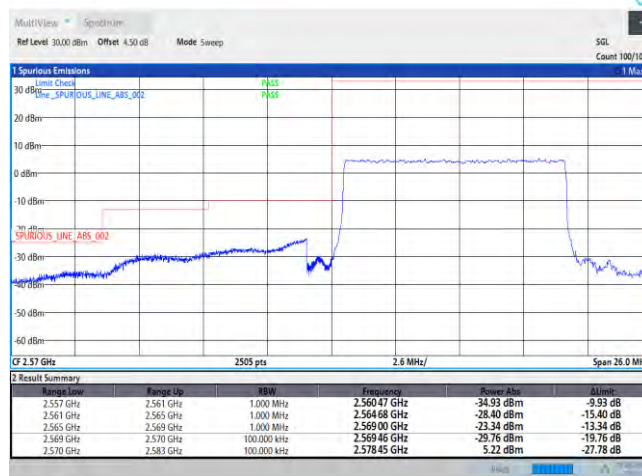
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Band38-10MHz-QPSK-37800-1RB#0



23:41:05 14.06.2023

Band38-10MHz-QPSK-37800-50RB#0



23:43:50 14.06.2023



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Band38-10MHz-QPSK-38200-1RB#49



23:47:00 14.06.2023

Band38-10MHz-QPSK-38200-50RB#0



23:49:46 14.06.2023



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Band38-15MHz-QPSK-37825-1RB#0



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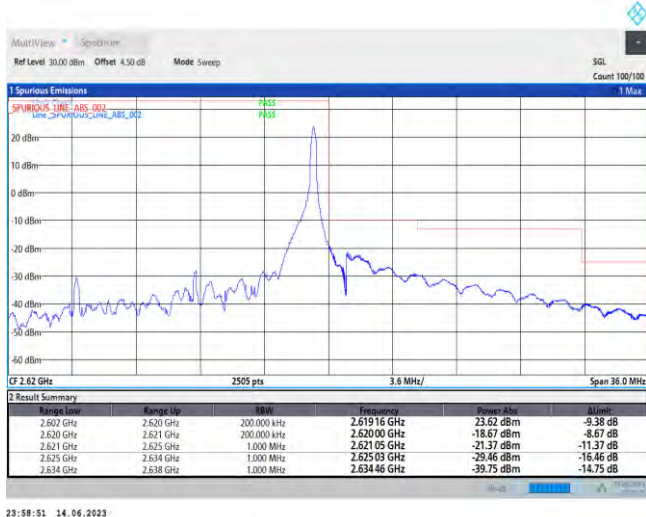


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Band38-15MHz-QPSK-38175-1RB#74



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Band38-15MHz-QPSK-38175-75RB#0

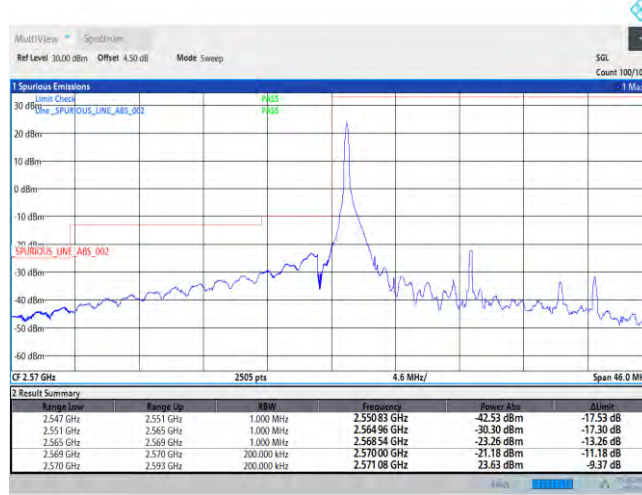


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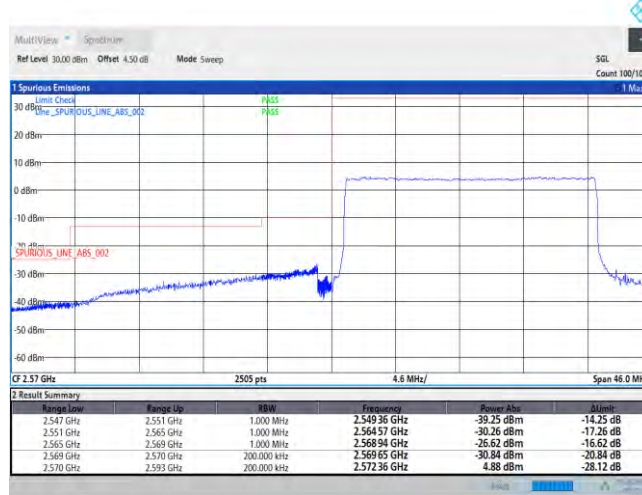
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Band38-20MHz-QPSK-37850-100RB#0



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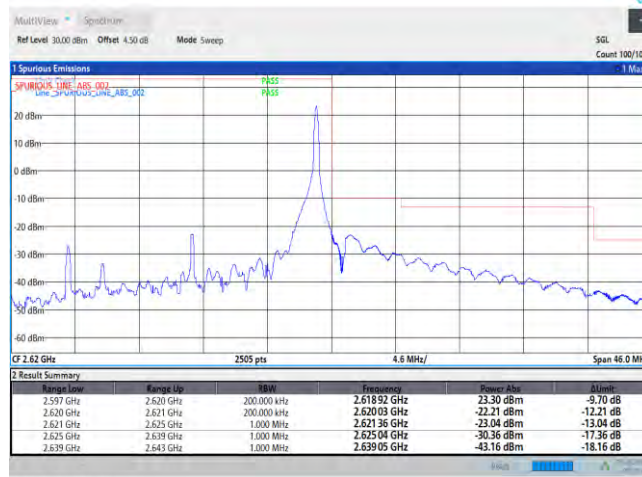


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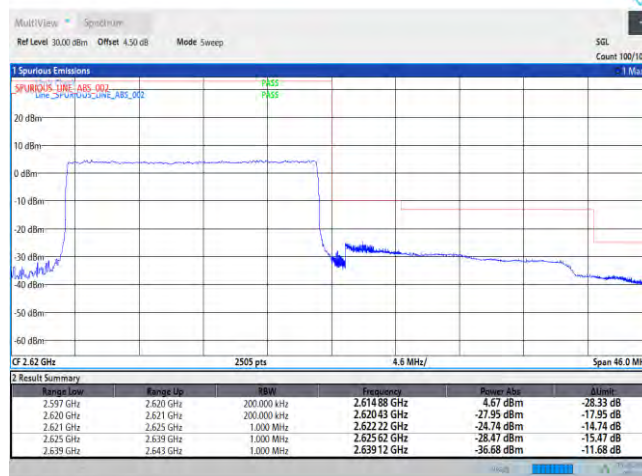
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Band38-20MHz-QPSK-38150-1RB#99



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Band38-20MHz-QPSK-38150-100RB#0



00:13:28 15.06.2023



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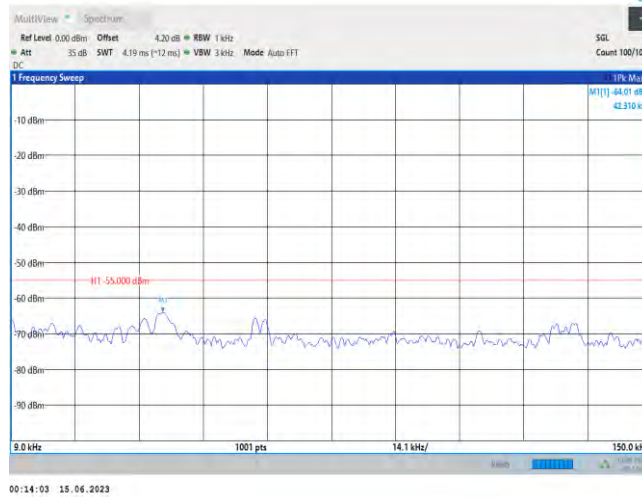
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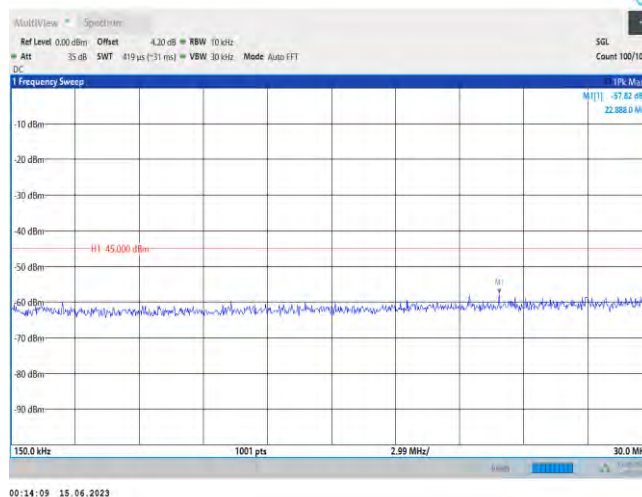
Conducted Spurious Emission

Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz

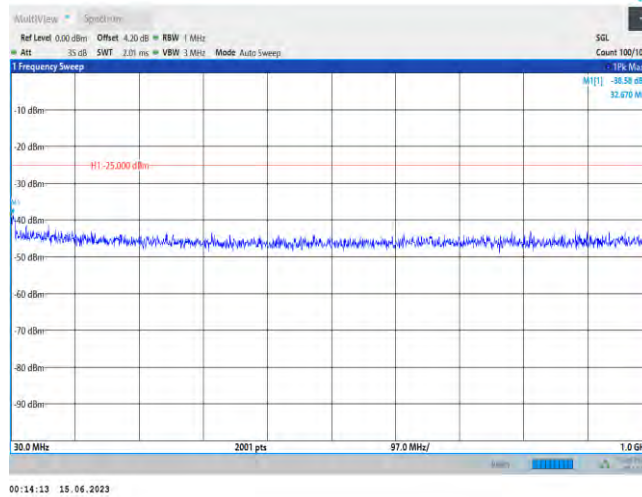


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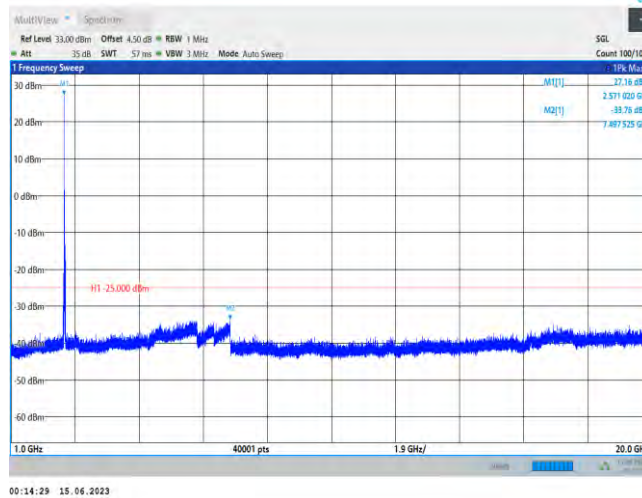
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz

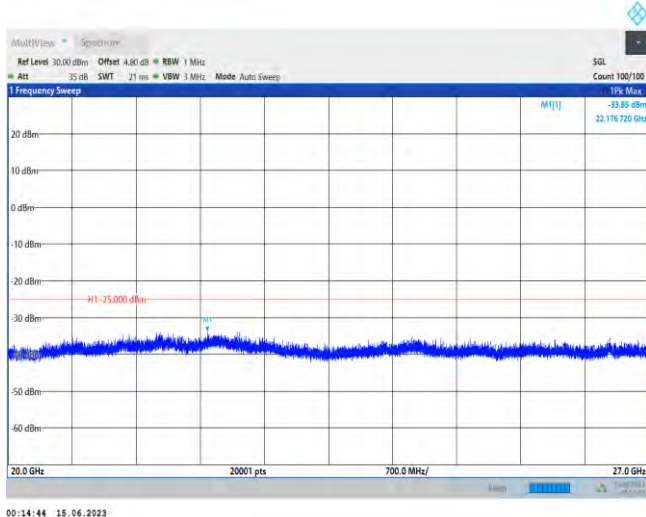


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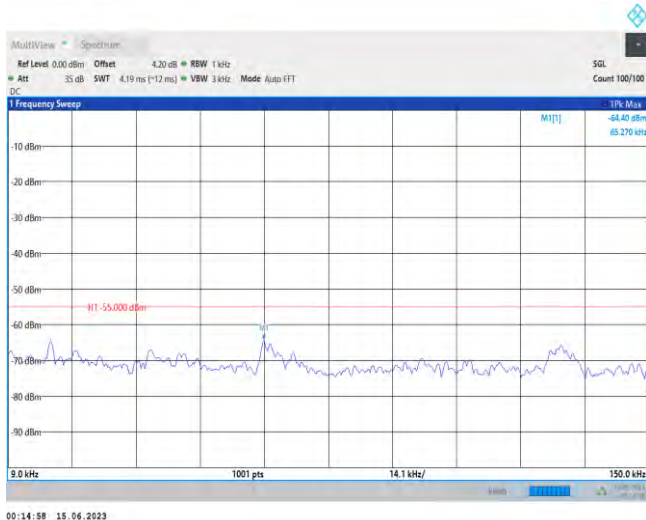
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz

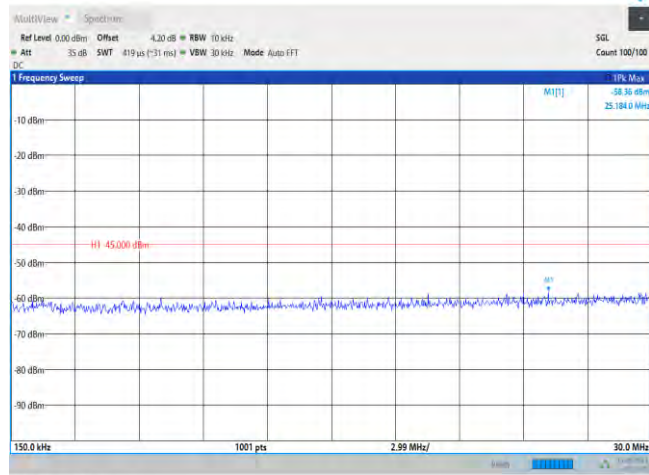


Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



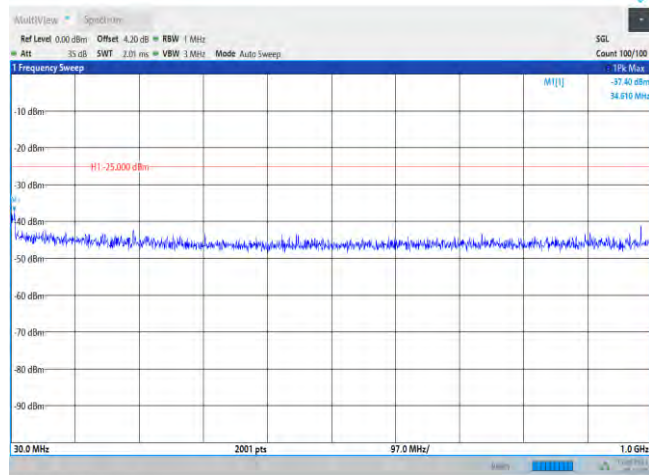
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



00:15:04 15.06.2023

Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz

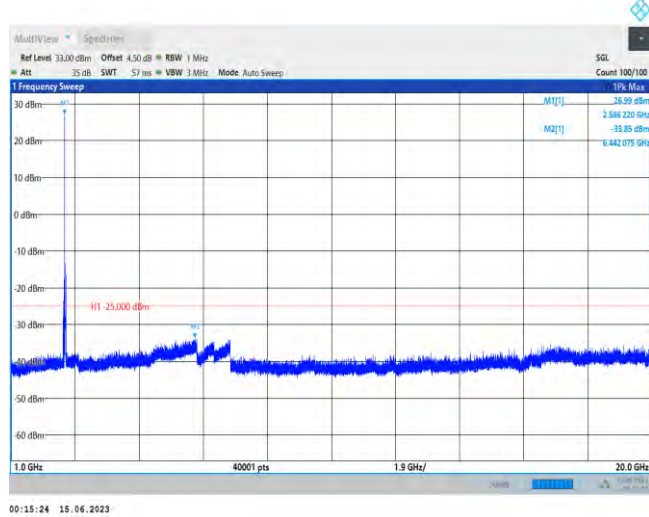


00:15:08 15.06.2023

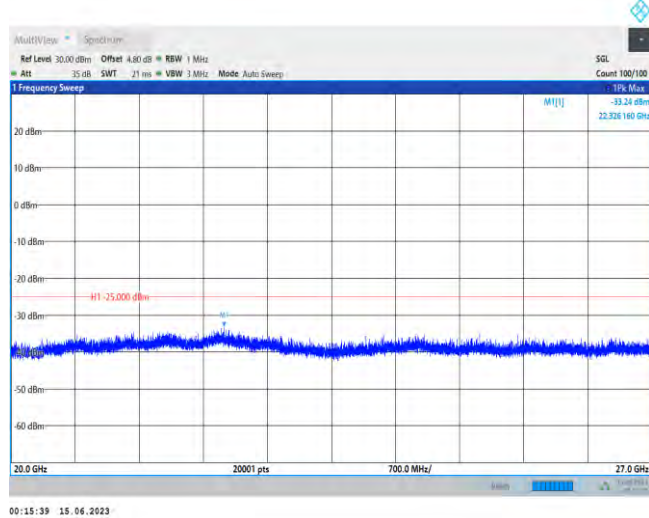


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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



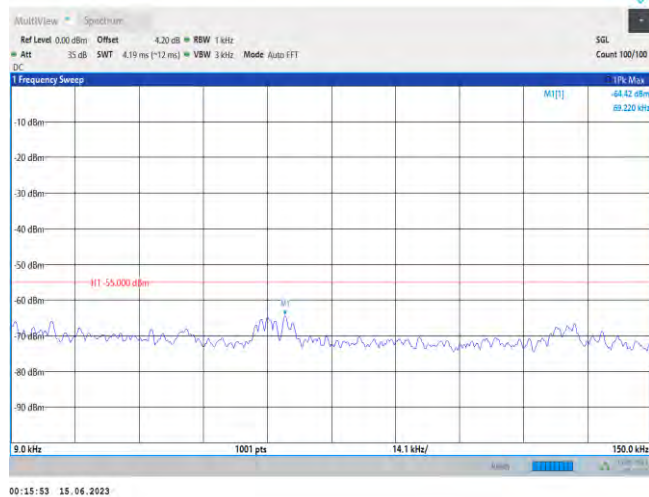
Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz



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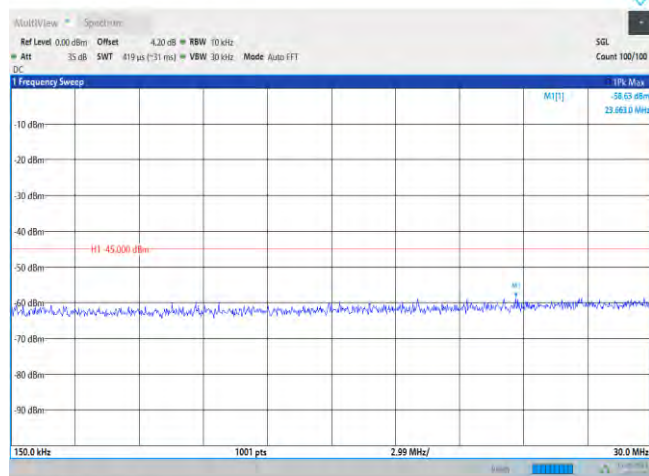
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



00:15:53 15.06.2023

Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



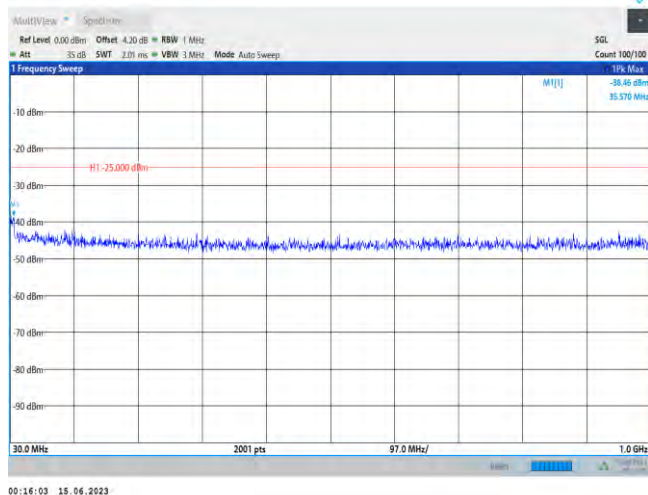
00:15:59 15.06.2023



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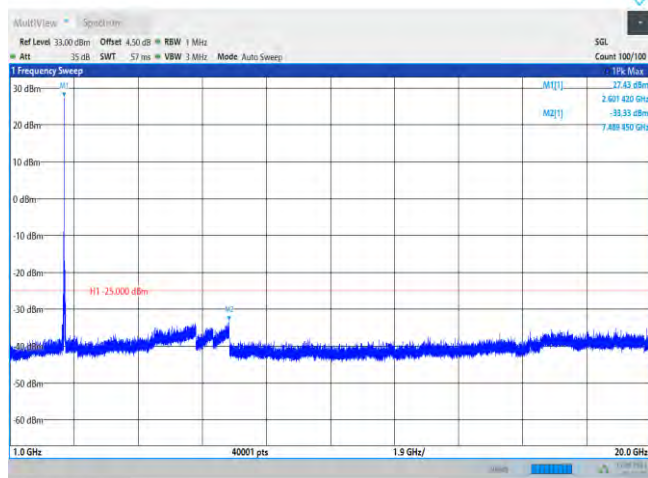
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



00:16:03 15.06.2023

Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz

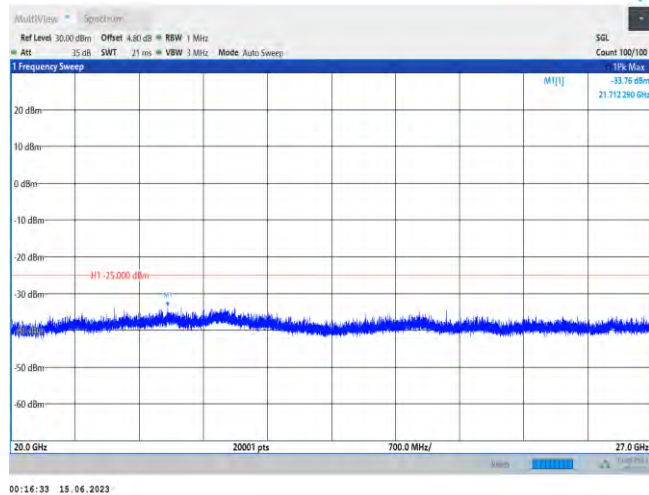


00:16:18 15.06.2023



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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



00:16:33 15.06.2023



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Wireless Laboratory

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t (86-512) 62992980 sgs.china@sgs.com

Field Strength of Spurious Radiation

Test Band = LTE Band38_20MHz_TM1

Test Channel = Low ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.72	-45.33	31.74	-68.13	-25.00	43.13	158	1	Horizontal
2	7713.2700	38.91	-43.01	36.69	-62.68	-25.00	37.68	175	34	Horizontal
3	10284.3600	34.00	-39.15	38.34	-62.07	-25.00	37.07	142	108	Horizontal
4	12855.4500	31.60	-36.99	39.06	-61.59	-25.00	36.59	163	89	Horizontal
5	15426.5400	31.04	-34.00	40.40	-57.81	-25.00	32.81	259	306	Horizontal
6	17997.6300	32.13	-34.58	46.79	-50.92	-25.00	25.92	188	72	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.1800	40.36	-45.33	31.74	-68.49	-25.00	43.49	188	88	Vertical
2	7713.2700	39.83	-43.01	36.69	-61.76	-25.00	36.76	178	36	Vertical
3	10284.3600	34.55	-39.15	38.34	-61.52	-25.00	36.52	186	127	Vertical
4	12855.4500	31.45	-36.99	39.06	-61.74	-25.00	36.74	163	271	Vertical
5	15426.5400	31.39	-34.00	40.40	-57.46	-25.00	32.46	256	216	Vertical
6	17997.6300	31.36	-34.58	46.79	-51.69	-25.00	26.69	145	307	Vertical



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 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE Band38_20MHz_TM1

Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4243	43.48	-45.67	29.68	-67.77	-25.00	42.77	155	324	Horizontal
2	5172.1800	41.60	-45.30	31.81	-67.15	-25.00	42.15	148	179	Horizontal
3	7758.2700	40.56	-42.65	36.70	-60.64	-25.00	35.64	175	7	Horizontal
4	10344.3600	35.32	-39.05	38.37	-60.62	-25.00	35.62	186	34	Horizontal
5	12930.4500	32.60	-37.18	39.08	-60.76	-25.00	35.76	236	270	Horizontal
6	15516.5400	28.55	-35.30	40.21	-61.80	-25.00	36.80	259	306	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4245.5	43.31	-45.67	29.69	-67.93	-25.00	42.93	125	214	Vertical
2	5172.1800	41.71	-45.30	31.81	-67.04	-25.00	42.04	148	34	Vertical
3	7758.2700	39.41	-42.65	36.70	-61.79	-25.00	36.79	175	34	Vertical
4	10344.3600	34.26	-39.05	38.37	-61.68	-25.00	36.68	133	51	Vertical
5	12930.4500	31.35	-37.18	39.08	-62.01	-25.00	37.01	261	4	Vertical
6	15516.5400	28.24	-35.30	40.21	-62.11	-25.00	37.11	158	69	Vertical



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Test Band = LTE Band38_20MHz_TM1
Test Channel = High ANTO

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4267.5	43.47	-45.61	29.74	-67.66	-25.00	42.66	152	17	Horizontal
2	4925.5	43.58	-45.56	31.24	-66.00	-25.00	41.00	136	71	Horizontal
3	5871	42.58	-44.91	32.67	-64.91	-25.00	39.91	148	144	Horizontal
4	6613	42.41	-44.28	34.50	-62.63	-25.00	37.63	177	252	Horizontal
5	8010.5	40.01	-42.25	36.79	-60.70	-25.00	35.70	195	71	Horizontal
6	10336.5	36.68	-39.06	38.37	-59.27	-25.00	34.27	128	324	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4557.5	43.77	-45.69	30.43	-66.75	-25.00	41.75	155	123	Vertical
2	5540	42.84	-45.17	32.61	-64.98	-25.00	39.98	172	360	Vertical
3	6168.5	42.15	-44.66	33.24	-64.53	-25.00	39.53	153	357	Vertical
4	6804.5	42.36	-44.17	34.85	-62.22	-25.00	37.22	261	2	Vertical
5	8051	39.62	-41.85	36.77	-60.71	-25.00	35.71	145	360	Vertical
6	10640.5	35.11	-38.23	38.52	-59.86	-25.00	34.86	186	339	Vertical



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Test Band = LTE Band38_20MHz_TM1

Test Channel = Low ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4712	43.24	-45.59	30.77	-66.85	-25.00	41.85	158	0	Horizontal
2	5675.5	42.85	-44.90	32.64	-64.68	-25.00	39.68	174	107	Horizontal
3	6469.5	42.88	-44.55	34.20	-62.73	-25.00	37.73	156	288	Horizontal
4	7622.5	41.15	-42.97	36.65	-60.43	-25.00	35.43	129	0	Horizontal
5	9191.5	38.34	-40.26	36.66	-60.51	-25.00	35.51	188	126	Horizontal
6	12359.5	32.99	-37.50	38.91	-60.86	-25.00	35.86	126	107	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4455.5	43.78	-45.76	30.19	-67.05	-25.00	42.05	158	358	Vertical
2	6349.5	42.54	-44.48	33.82	-63.38	-25.00	38.38	174	3	Vertical
3	7421	41.36	-43.35	36.38	-60.87	-25.00	35.87	156	358	Vertical
4	9313.5	37.79	-40.17	36.90	-60.74	-25.00	35.74	261	51	Vertical
5	11332.5	34.66	-37.40	38.73	-59.27	-25.00	34.27	199	270	Vertical
6	13626.5	32.62	-36.10	40.23	-58.51	-25.00	33.51	186	270	Vertical



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Test Band = LTE Band38_20MHz_TM1

Test Channel = Mid ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5030	43.14	-45.56	31.47	-66.21	-25.00	41.21	155	2	Horizontal
2	5961.5	42.85	-44.88	32.69	-64.60	-25.00	39.60	175	124	Horizontal
3	7255.5	41.42	-43.60	35.92	-61.53	-25.00	36.53	163	288	Horizontal
4	7882	41.06	-42.73	36.75	-60.18	-25.00	35.18	214	270	Horizontal
5	10023.5	36.34	-39.21	38.21	-59.92	-25.00	34.92	199	234	Horizontal
6	13451.5	32.72	-36.68	39.91	-59.30	-25.00	34.30	153	2	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4842	43.43	-45.54	31.05	-66.31	-25.00	41.31	155	360	Vertical
2	6426.5	41.74	-44.46	34.06	-63.92	-25.00	38.92	175	360	Vertical
3	7195.5	41.96	-43.46	35.75	-61.01	-25.00	36.01	144	198	Vertical
4	7809	40.45	-42.36	36.72	-60.44	-25.00	35.44	126	218	Vertical
5	10069	36.55	-39.16	38.23	-59.63	-25.00	34.63	259	126	Vertical
6	12317.5	33.31	-37.44	38.90	-60.49	-25.00	35.49	183	126	Vertical



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Test Band = LTE Band38_20MHz_TM1
Test Channel = High ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4272.5	43.67	-45.60	29.75	-67.44	-25.00	42.44	155	324	Horizontal
2	5202.1800	42.24	-45.28	31.89	-66.41	-25.00	41.41	186	144	Horizontal
3	7803.2700	39.81	-42.33	36.72	-61.06	-25.00	36.06	136	324	Horizontal
4	10404.3600	35.23	-39.00	38.40	-60.63	-25.00	35.63	251	0	Horizontal
5	13005.4500	33.75	-37.31	39.11	-59.71	-25.00	34.71	198	269	Horizontal
6	15606.5400	31.67	-34.87	40.03	-58.44	-25.00	33.44	158	106	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4232.5	43.01	-45.70	29.66	-68.29	-25.00	43.29	154	17	Vertical
2	5202.1800	41.93	-45.28	31.89	-66.72	-25.00	41.72	177	255	Vertical
3	7803.2700	39.64	-42.33	36.72	-61.23	-25.00	36.23	186	326	Vertical
4	10404.3600	36.80	-39.00	38.40	-59.06	-25.00	34.06	256	126	Vertical
5	13005.4500	32.91	-37.31	39.11	-60.55	-25.00	35.55	136	3	Vertical
6	15606.5400	31.43	-34.87	40.03	-58.68	-25.00	33.68	259	219	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
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-8.60	-0.003314	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-13.10	-0.005048	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-8.20	-0.003160	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-5.40	-0.002081	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-6.90	-0.002659	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-11.00	-0.004239	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-3.30	-0.001272	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-5.70	-0.002197	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-10.80	-0.004162	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-12.60	-0.004855	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-3.00	-0.001156	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-10.50	-0.004046	PASS

---End of Attachment---



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