

Report No.: SEWA2303000029RG01

Rev.: 01

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# Appendix B.13

## LTE Band 38



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	25.32	27.01	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	25.42	27.11	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	25.01	26.7	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	24.06	25.75	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	25.21	26.9	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	24.97	26.66	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	24.85	26.54	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	24.03	25.72	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	25.32	27.01	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	24.93	26.62	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	24.85	26.54	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	24.03	25.72	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	24.21	25.9	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	24.22	25.91	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	24.1	25.79	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	22.99	24.68	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	24.27	25.96	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	24.25	25.94	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	24.1	25.79	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	22.96	24.65	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	24.31	26	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	24.22	25.91	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	24.1	25.79	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	22.98	24.67	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	22.98	24.67	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	23.05	24.74	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	22.87	24.56	33	PASS



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Band38	5MHz	64QAM	37775	25RB#0	22.07	23.76	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	23.02	24.71	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	23.01	24.7	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	22.84	24.53	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	22.03	23.72	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	23.05	24.74	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	23.04	24.73	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	22.86	24.55	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	22.05	23.74	33	PASS
Band38	5MHz	256QAM	37775	1RB#0	20.06	21.75	33	PASS
Band38	5MHz	256QAM	37775	1RB#12	20.14	21.83	33	PASS
Band38	5MHz	256QAM	37775	1RB#24	19.9	21.59	33	PASS
Band38	5MHz	256QAM	37775	25RB#0	20.1	21.79	33	PASS
Band38	5MHz	256QAM	38000	1RB#0	20.12	21.81	33	PASS
Band38	5MHz	256QAM	38000	1RB#12	20.11	21.8	33	PASS
Band38	5MHz	256QAM	38000	1RB#24	19.91	21.6	33	PASS
Band38	5MHz	256QAM	38000	25RB#0	20.1	21.79	33	PASS
Band38	5MHz	256QAM	38225	1RB#0	20.09	21.78	33	PASS
Band38	5MHz	256QAM	38225	1RB#12	20.11	21.8	33	PASS
Band38	5MHz	256QAM	38225	1RB#24	19.96	21.65	33	PASS
Band38	5MHz	256QAM	38225	25RB#0	20.13	21.82	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	25.09	26.78	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	25.15	26.84	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	25	26.69	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	24.25	25.94	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	25.32	27.01	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	25.17	26.86	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	25.11	26.8	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	24.23	25.92	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	25.52	27.21	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	25.11	26.8	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	25.1	26.79	33	PASS



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Band38	10MHz	QPSK	38200	50RB#0	24.24	25.93	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	24.33	26.02	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	24.39	26.08	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	24.32	26.01	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	23.25	24.94	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	24.41	26.1	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	24.38	26.07	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	24.35	26.04	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	23.27	24.96	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	24.45	26.14	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	24.42	26.11	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	24.34	26.03	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	23.25	24.94	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	23.15	24.84	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	23.24	24.93	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	23.09	24.78	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	22.3	23.99	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	23.2	24.89	33	PASS
Band38	10MHz	64QAM	38000	1RB#24	23.19	24.88	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	23.12	24.81	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	22.32	24.01	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	23.18	24.87	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	23.21	24.9	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	23.16	24.85	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	22.29	23.98	33	PASS
Band38	10MHz	256QAM	37800	1RB#0	20.2	21.89	33	PASS
Band38	10MHz	256QAM	37800	1RB#24	20.28	21.97	33	PASS
Band38	10MHz	256QAM	37800	1RB#49	20.18	21.87	33	PASS
Band38	10MHz	256QAM	37800	50RB#0	20.34	22.03	33	PASS
Band38	10MHz	256QAM	38000	1RB#0	20.22	21.91	33	PASS
Band38	10MHz	256QAM	38000	1RB#24	20.28	21.97	33	PASS
Band38	10MHz	256QAM	38000	1RB#49	20.21	21.9	33	PASS



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Band38	10MHz	256QAM	38000	50RB#0	20.37	22.06	33	PASS
Band38	10MHz	256QAM	38200	1RB#0	20.22	21.91	33	PASS
Band38	10MHz	256QAM	38200	1RB#24	20.31	22	33	PASS
Band38	10MHz	256QAM	38200	1RB#49	20.24	21.93	33	PASS
Band38	10MHz	256QAM	38200	50RB#0	20.37	22.06	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	25.11	26.8	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	25.08	26.77	33	PASS
Band38	15MHz	QPSK	37825	1RB#74	25.18	26.87	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	24.22	25.91	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	25.26	26.95	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	25.12	26.81	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	25.09	26.78	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	24.2	25.89	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	25.51	27.2	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	25.11	26.8	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	25.18	26.87	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	24.2	25.89	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	24.34	26.03	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	24.31	26	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	24.48	26.17	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	23.24	24.93	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	24.38	26.07	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	24.39	26.08	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	24.4	26.09	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	23.27	24.96	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	24.44	26.13	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	24.34	26.03	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	24.43	26.12	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	23.21	24.9	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	23.13	24.82	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	23.09	24.78	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	23.26	24.95	33	PASS



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Band38	15MHz	64QAM	37825	75RB#0	22.3	23.99	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	23.12	24.81	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	23.14	24.83	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	23.18	24.87	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	22.26	23.95	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	23.14	24.83	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	23.14	24.83	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	23.24	24.93	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	22.23	23.92	33	PASS
Band38	15MHz	256QAM	37825	1RB#0	20.19	21.88	33	PASS
Band38	15MHz	256QAM	37825	1RB#38	20.22	21.91	33	PASS
Band38	15MHz	256QAM	37825	1RB#74	20.28	21.97	33	PASS
Band38	15MHz	256QAM	37825	75RB#0	20.29	21.98	33	PASS
Band38	15MHz	256QAM	38000	1RB#0	20.23	21.92	33	PASS
Band38	15MHz	256QAM	38000	1RB#38	20.23	21.92	33	PASS
Band38	15MHz	256QAM	38000	1RB#74	20.3	21.99	33	PASS
Band38	15MHz	256QAM	38000	75RB#0	20.31	22	33	PASS
Band38	15MHz	256QAM	38175	1RB#0	20.16	21.85	33	PASS
Band38	15MHz	256QAM	38175	1RB#38	20.22	21.91	33	PASS
Band38	15MHz	256QAM	38175	1RB#74	20.33	22.02	33	PASS
Band38	15MHz	256QAM	38175	75RB#0	20.26	21.95	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	25.01	26.7	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	25.05	26.74	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	25.18	26.87	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	24.23	25.92	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	25.36	27.05	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	25.13	26.82	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	25.13	26.82	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	24.24	25.93	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	25.46	27.15	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	25.13	26.82	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	25.19	26.88	33	PASS



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Band38	20MHz	QPSK	38150	100RB#0	24.22	25.91	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	24.25	25.94	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	24.3	25.99	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	24.43	26.12	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	23.29	24.98	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	24.4	26.09	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	24.36	26.05	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	24.37	26.06	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	23.29	24.98	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	24.4	26.09	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	24.36	26.05	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	24.46	26.15	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	23.27	24.96	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	23.08	24.77	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	23.11	24.8	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	23.23	24.92	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	22.25	23.94	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	23.13	24.82	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	23.15	24.84	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	23.15	24.84	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	22.28	23.97	33	PASS
Band38	20MHz	64QAM	38150	1RB#0	23.13	24.82	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	23.18	24.87	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	23.26	24.95	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	22.26	23.95	33	PASS
Band38	20MHz	256QAM	37850	1RB#0	20.14	21.83	33	PASS
Band38	20MHz	256QAM	37850	1RB#49	20.18	21.87	33	PASS
Band38	20MHz	256QAM	37850	1RB#99	20.3	21.99	33	PASS
Band38	20MHz	256QAM	37850	100RB#0	20.31	22	33	PASS
Band38	20MHz	256QAM	38000	1RB#0	20.2	21.89	33	PASS
Band38	20MHz	256QAM	38000	1RB#49	20.26	21.95	33	PASS
Band38	20MHz	256QAM	38000	1RB#99	20.31	22	33	PASS



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Rev.: 01

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Band38	20MHz	256QAM	38000	100RB#0	20.34	22.03	33	PASS
Band38	20MHz	256QAM	38150	1RB#0	20.18	21.87	33	PASS
Band38	20MHz	256QAM	38150	1RB#49	20.25	21.94	33	PASS
Band38	20MHz	256QAM	38150	1RB#99	20.34	22.03	33	PASS
Band38	20MHz	256QAM	38150	100RB#0	20.28	21.97	33	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	8.96	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.04	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.88	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.58	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.60	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.66	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	9.86	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.90	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.70	13	PASS
Band38	20MHz	256QAM	37850	100RB#0	10.22	13	PASS
Band38	20MHz	256QAM	38000	100RB#0	10.20	13	PASS
Band38	20MHz	256QAM	38150	100RB#0	10.26	13	PASS



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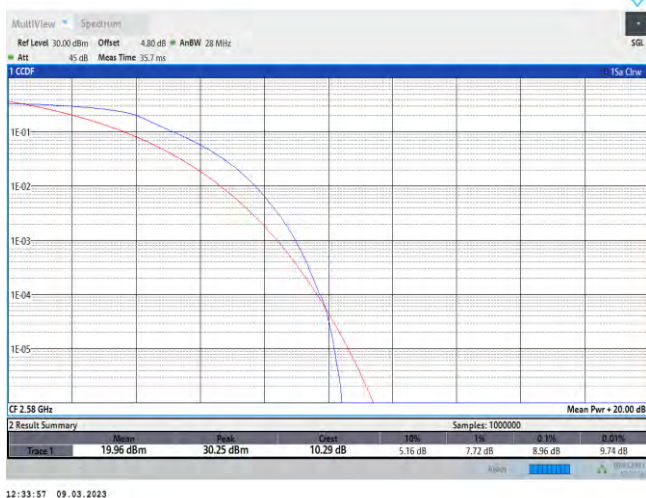
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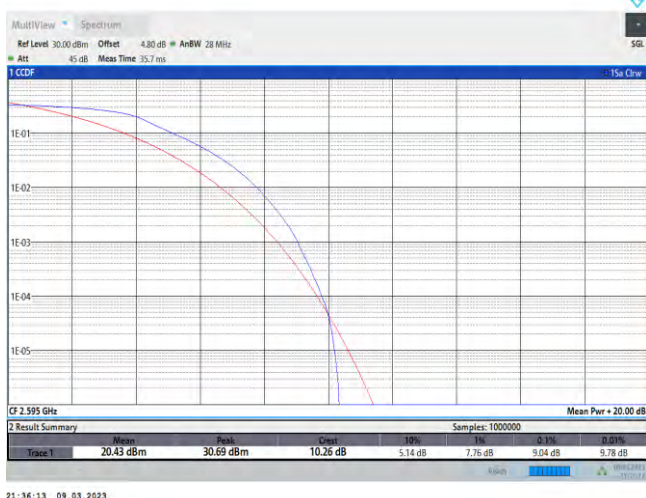
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Test Graphs

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



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



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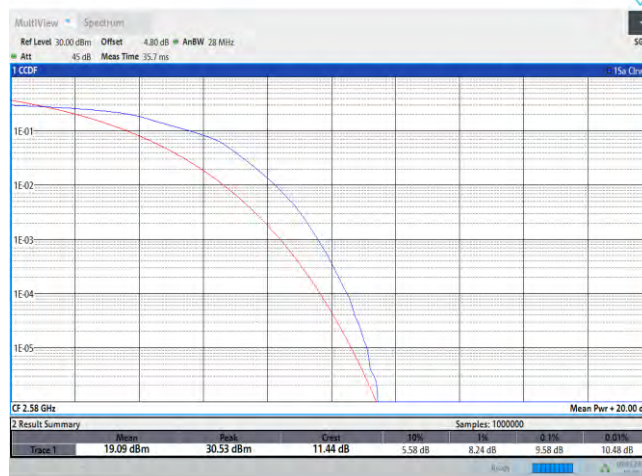
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Band38-20MHz-QPSK-38150-100RB#0



21:36:29 09.03.2023

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



12:34:13 09.03.2023



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



12:35:21 09.03.2023

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



12:36:31 09.03.2023



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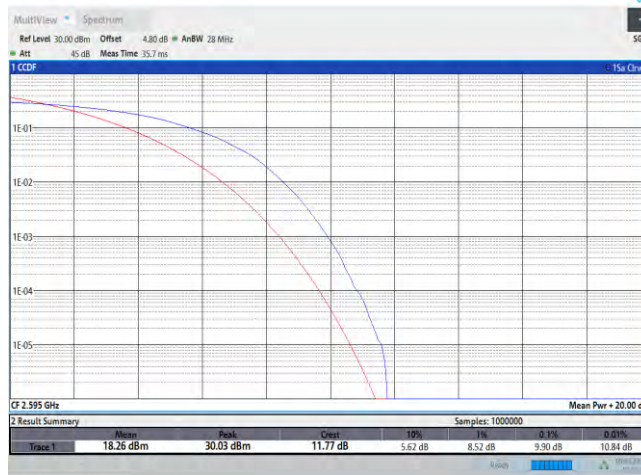


Band38-20MHz-64QAM-37850-100RB#0



12:34:30 09.03.2023

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



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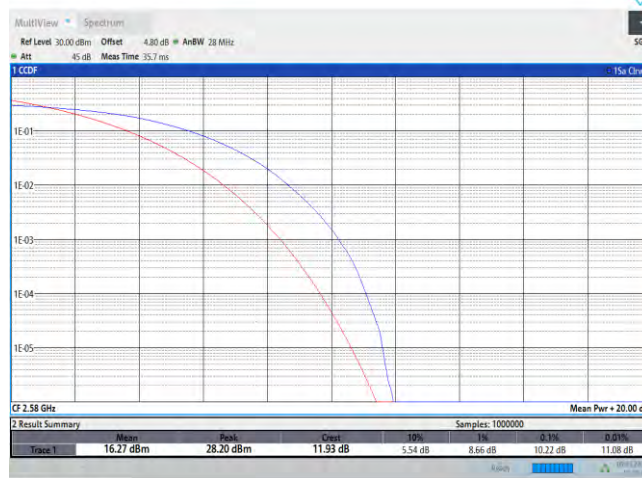
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Band38-20MHz-64QAM-38150-100RB#0



12:36:48 09.03.2023

Band38-20MHz-256QAM-37850-100RB#0



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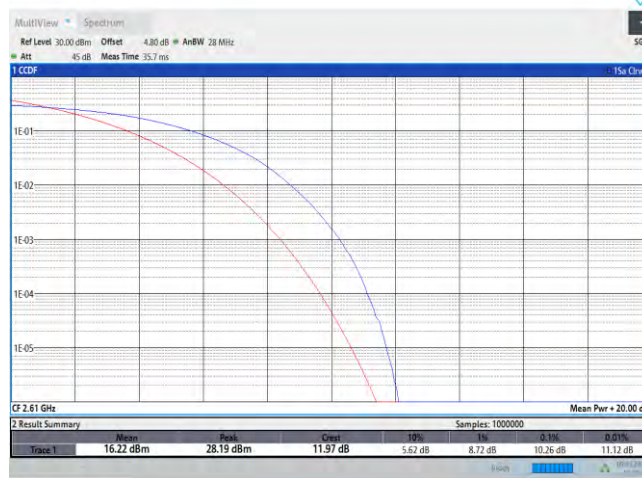
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Band38-20MHz-256QAM-38000-100RB#0



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Band38-20MHz-256QAM-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
Band38	20MHz	256QAM	38000	100RB#0	PASS	PASS



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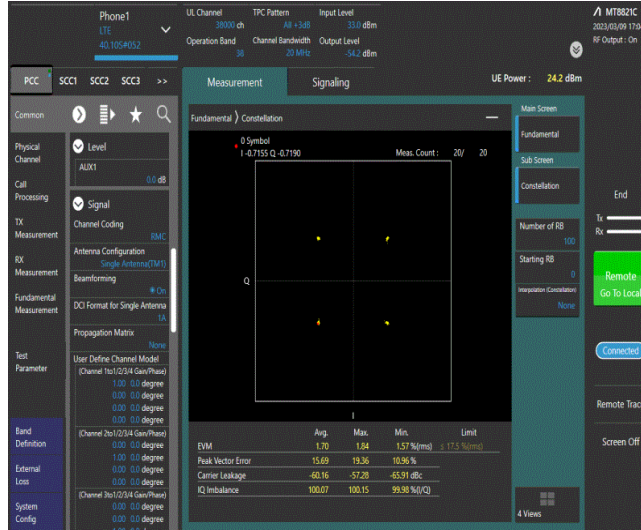
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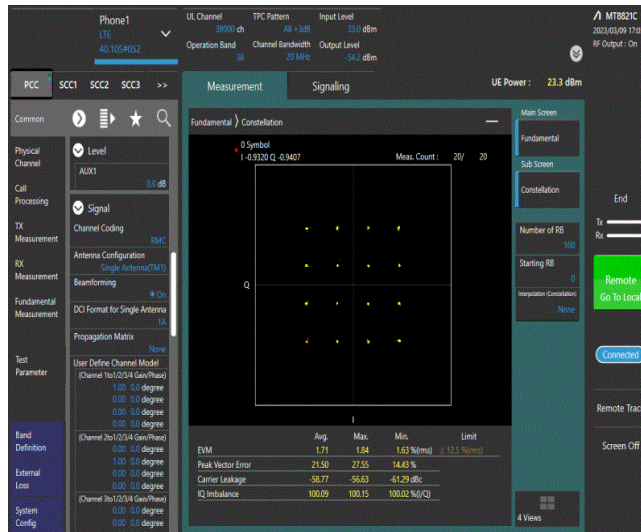


Test Graphs

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



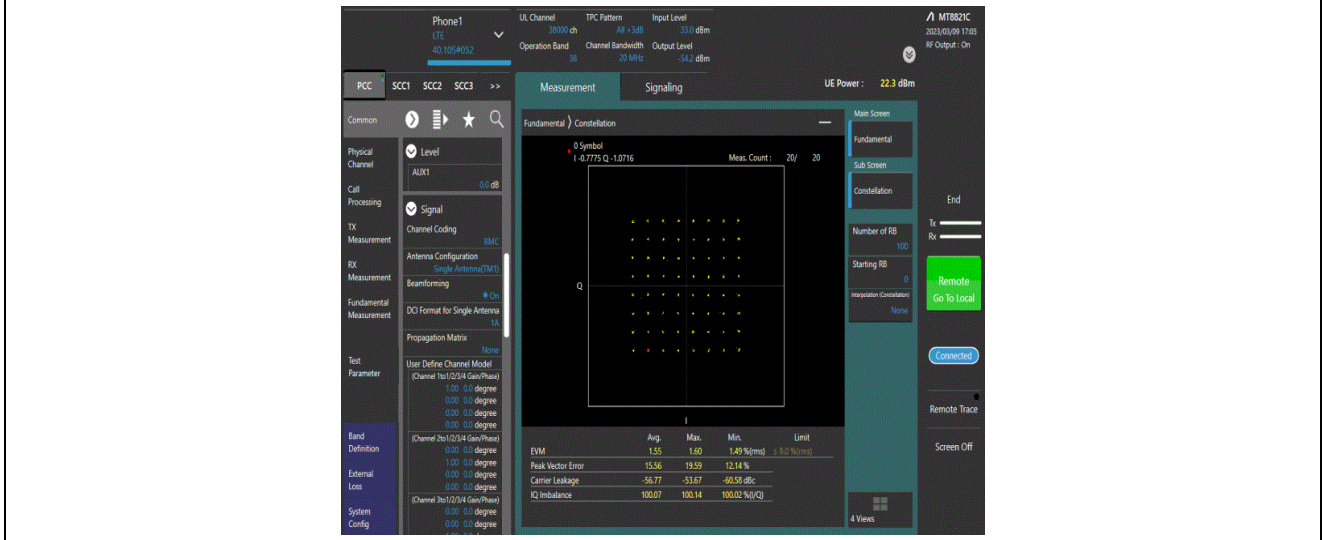
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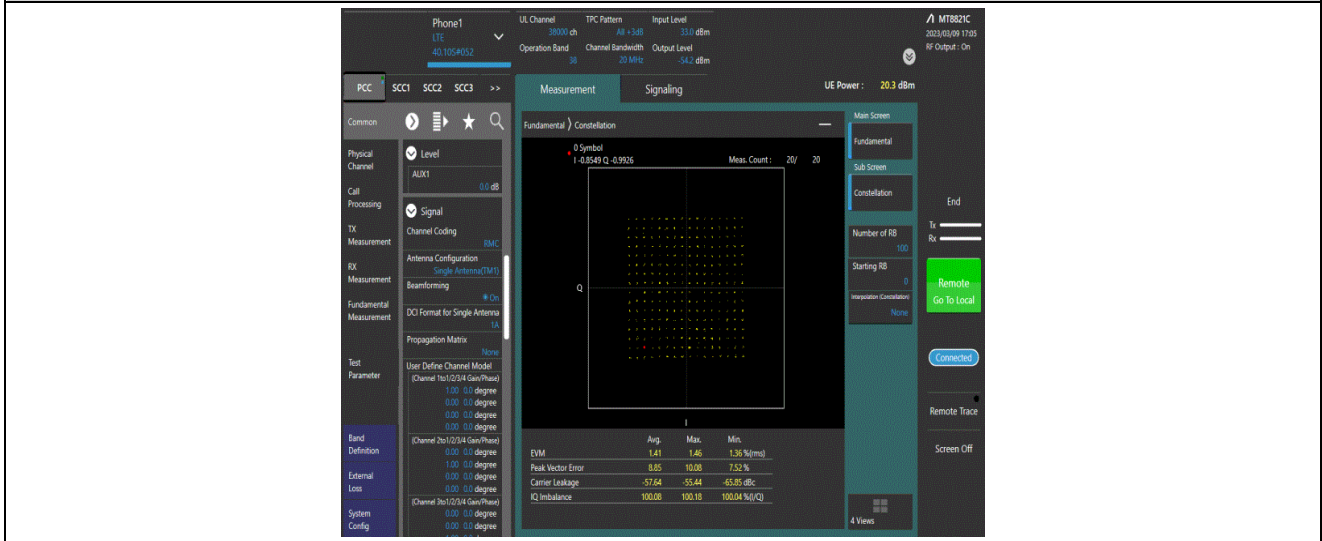
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Band38-20MHz-256QAM-38000-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.460	4.78	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.474	4.81	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.466	4.76	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.456	4.83	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.463	4.96	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.471	4.80	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.474	4.83	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.462	4.90	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.472	4.79	PASS
Band38	5MHz	256QAM	37775	25RB#0	4.461	4.79	PASS
Band38	5MHz	256QAM	38000	25RB#0	4.465	4.84	PASS
Band38	5MHz	256QAM	38225	25RB#0	4.458	4.83	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.913	9.46	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.923	9.42	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.950	9.60	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.913	9.44	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.907	9.40	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.926	9.54	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.965	9.50	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.935	9.60	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.935	9.54	PASS
Band38	10MHz	256QAM	37800	50RB#0	8.951	9.48	PASS
Band38	10MHz	256QAM	38000	50RB#0	8.959	9.50	PASS
Band38	10MHz	256QAM	38200	50RB#0	8.963	9.48	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.460	14.64	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.470	14.64	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.440	14.31	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.412	14.76	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.470	14.85	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.430	14.49	PASS



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Rev.: 01

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Band38	15MHz	64QAM	37825	75RB#0	13.442	14.58	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.449	14.43	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.454	14.49	PASS
Band38	15MHz	256QAM	37825	75RB#0	13.464	14.49	PASS
Band38	15MHz	256QAM	38000	75RB#0	13.481	14.37	PASS
Band38	15MHz	256QAM	38175	75RB#0	13.405	14.64	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.901	18.96	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.884	19.20	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.811	18.92	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.863	18.84	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.862	18.84	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.930	19.04	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.888	19.08	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.884	18.88	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.895	18.88	PASS
Band38	20MHz	256QAM	37850	100RB#0	17.861	19.08	PASS
Band38	20MHz	256QAM	38000	100RB#0	17.804	18.92	PASS
Band38	20MHz	256QAM	38150	100RB#0	17.791	19.08	PASS



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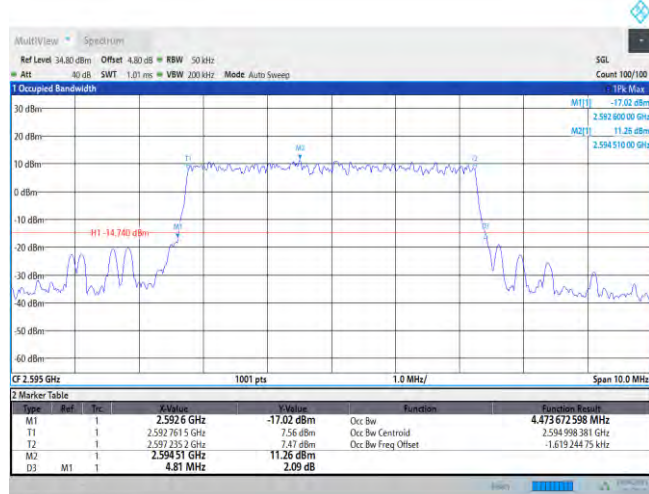


Test Graphs

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



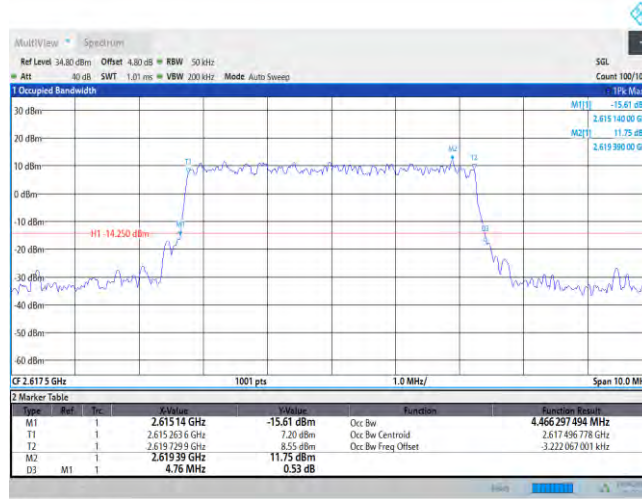
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Band38-5MHz-QPSK-38225-25RB#0



20:25:28 24.04.2023

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



20:23:46 24.04.2023



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



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



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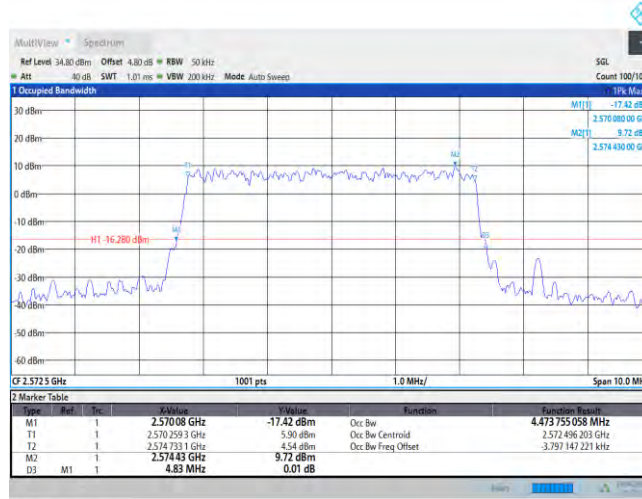
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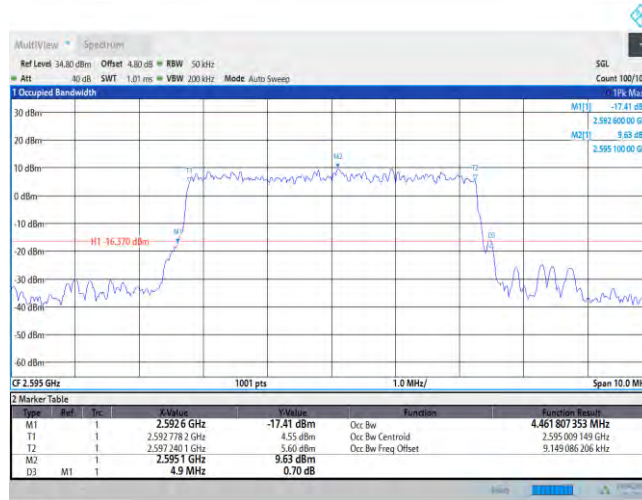


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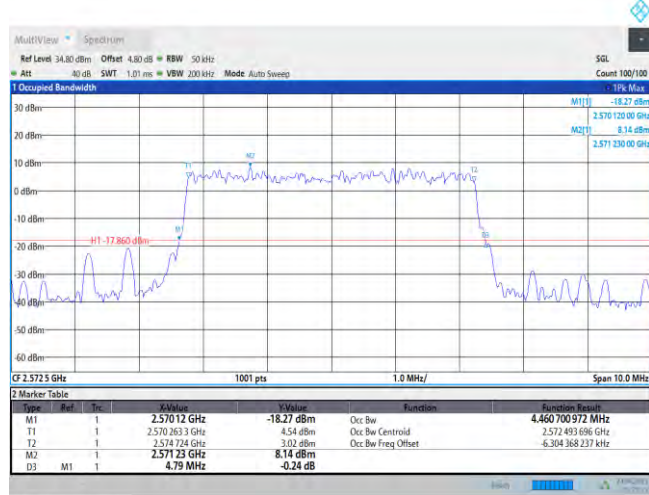


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Band38-5MHz-256QAM-37775-25RB#0



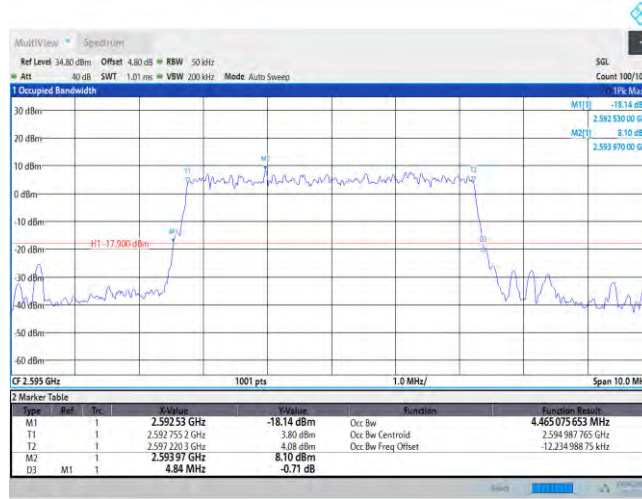
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Band38-5MHz-256QAM-38000-25RB#0



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Band38-5MHz-256QAM-38225-25RB#0



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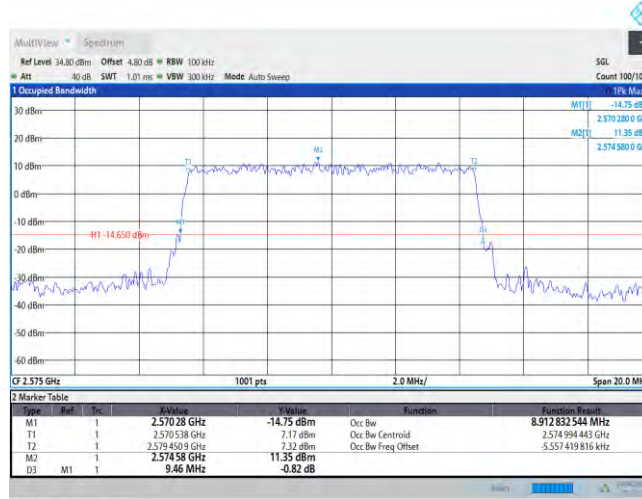


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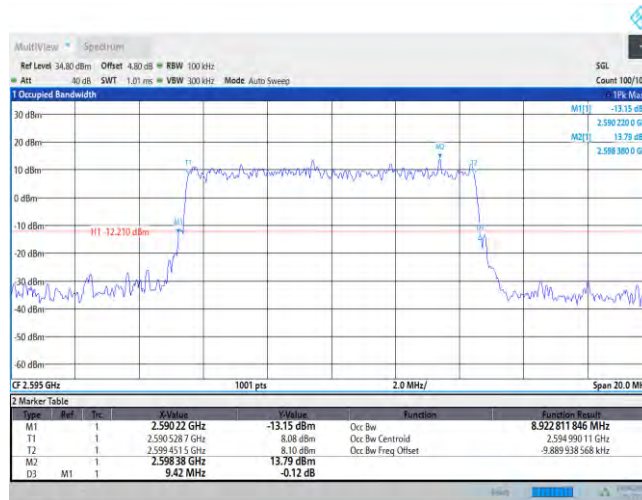
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Band38-10MHz-QPSK-37800-50RB#0



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



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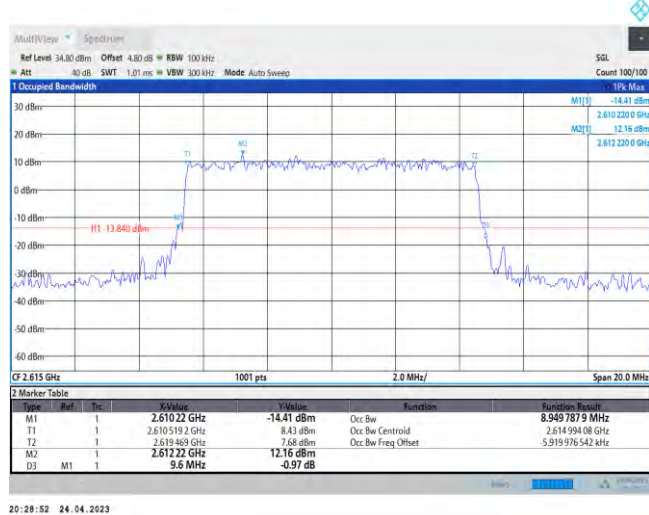


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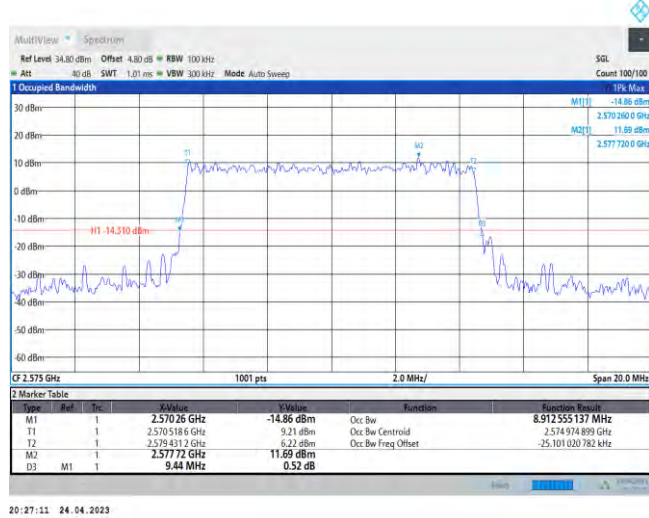
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Band38-10MHz-QPSK-38200-50RB#0



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



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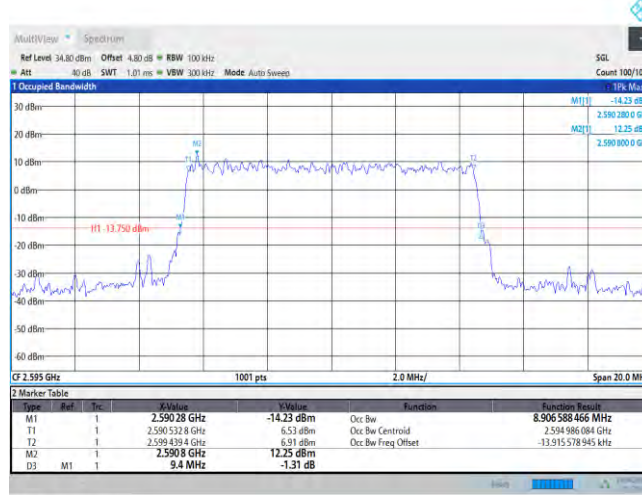
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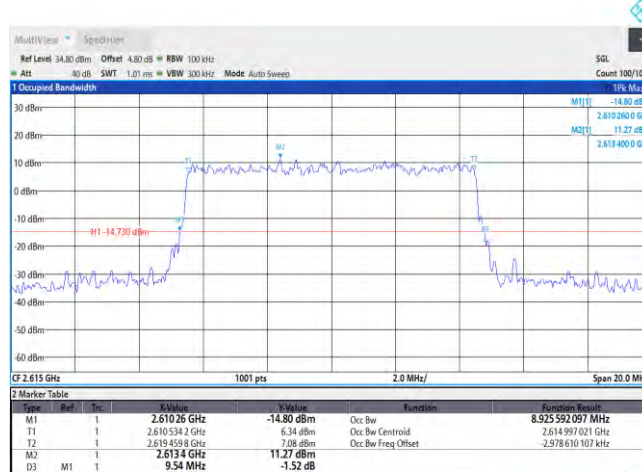


Band38-10MHz-16QAM-38000-50RB#0



20:28:07 24.04.2023

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



20:29:05 24.04.2023



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



20:27:25 24.04.2023

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



20:28:21 24.04.2023



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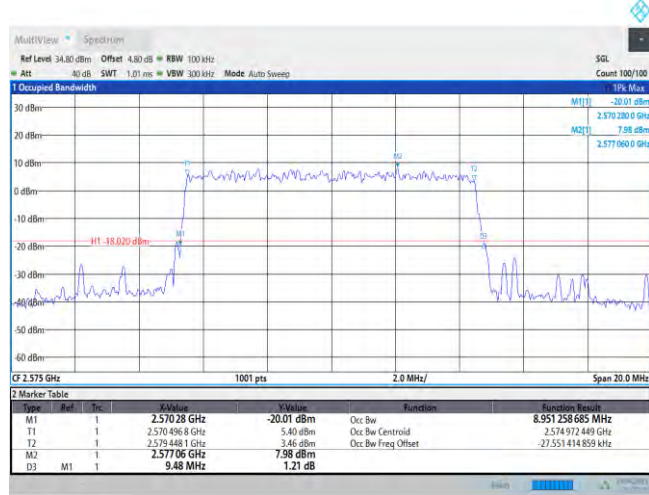
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Band38-10MHz-64QAM-38200-50RB#0



20:29:18 24.04.2023

Band38-10MHz-256QAM-37800-50RB#0



20:27:38 24.04.2023

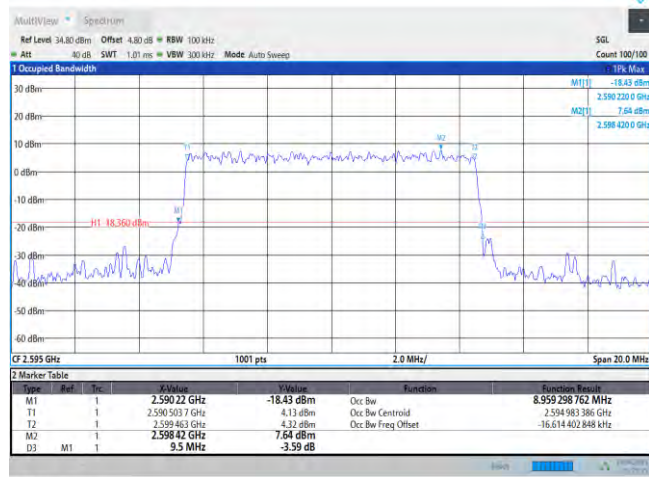


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Band38-10MHz-256QAM-38000-50RB#0



20:28:34 24.04.2023

Band38-10MHz-256QAM-38200-50RB#0



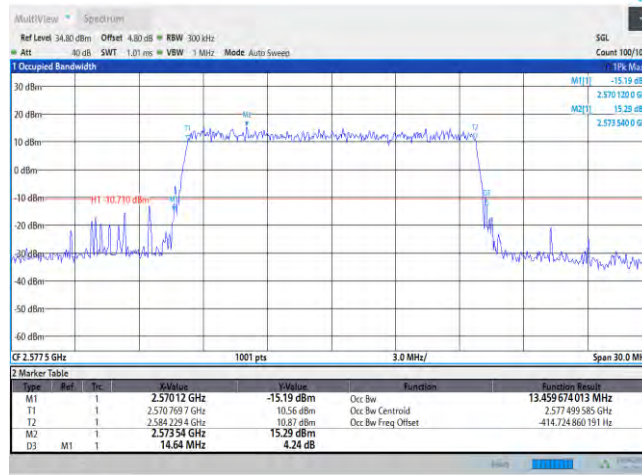
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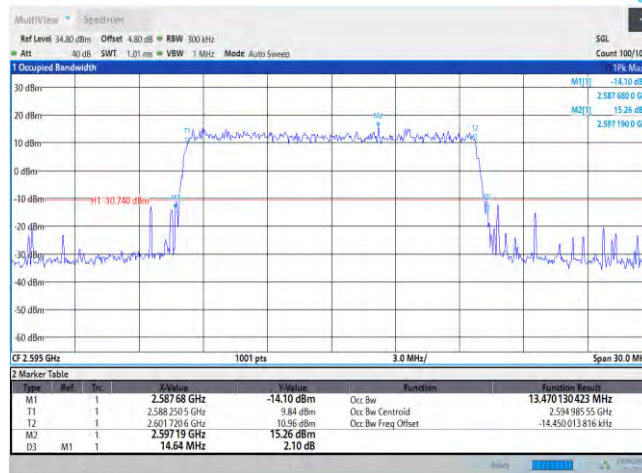
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Band38-15MHz-QPSK-37825-75RB#0



20:30:26 24.04.2023

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



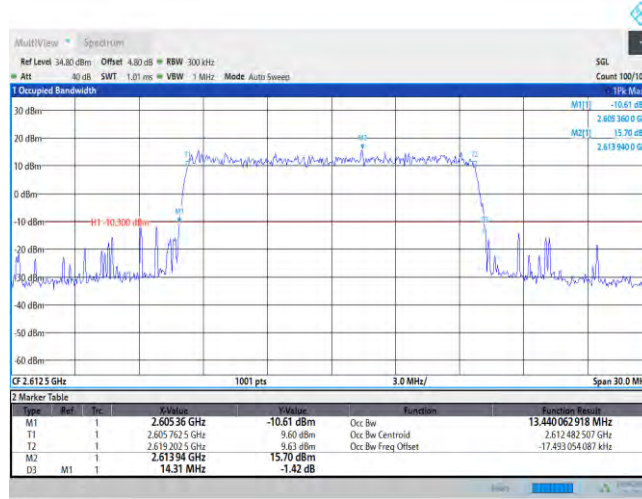
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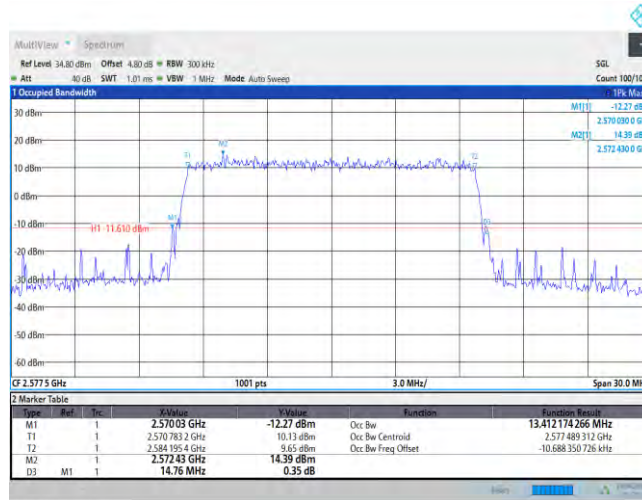
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Band38-15MHz-QPSK-38175-75RB#0



20:32:19 24.04.2023

Band38-15MHz-16QAM-37825-75RB#0



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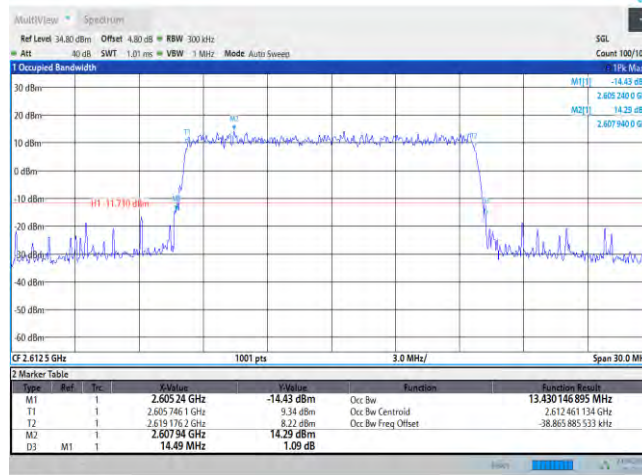


Band38-15MHz-16QAM-38000-75RB#0



20:31:35 24.04.2023

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



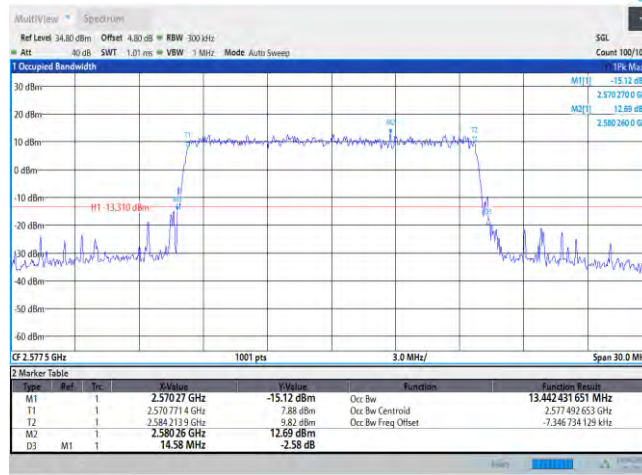
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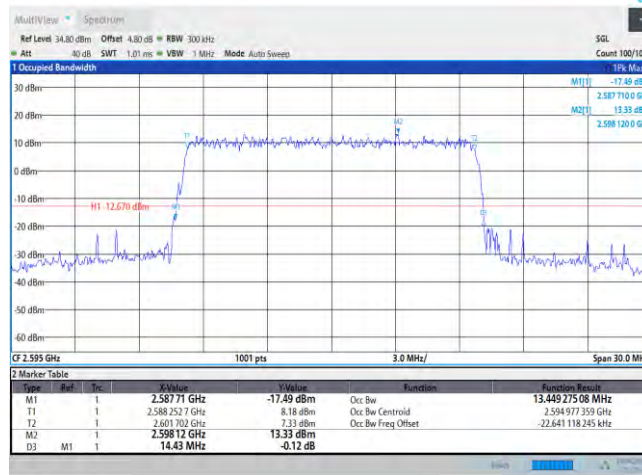
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Band38-15MHz-64QAM-37825-75RB#0



20:30:53 24.04.2023

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



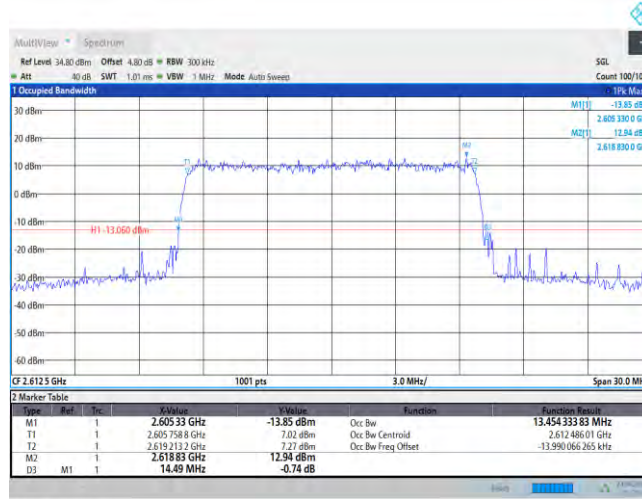
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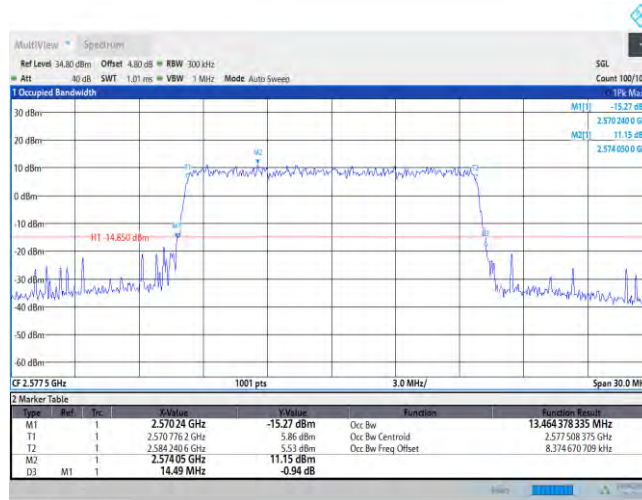
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Band38-15MHz-64QAM-38175-75RB#0



20:32:45 24.04.2023

Band38-15MHz-256QAM-37825-75RB#0



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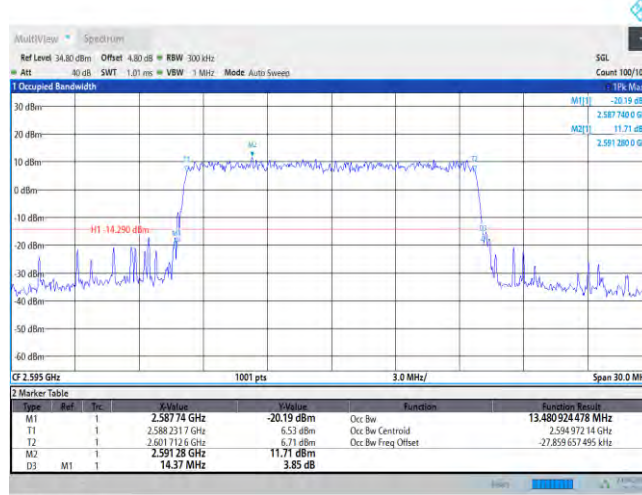


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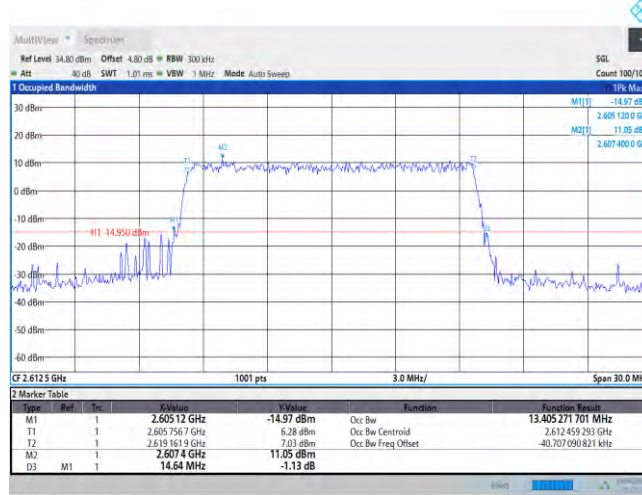


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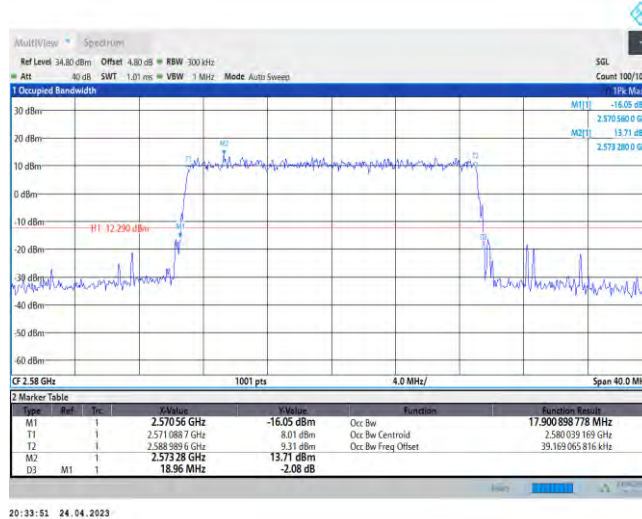
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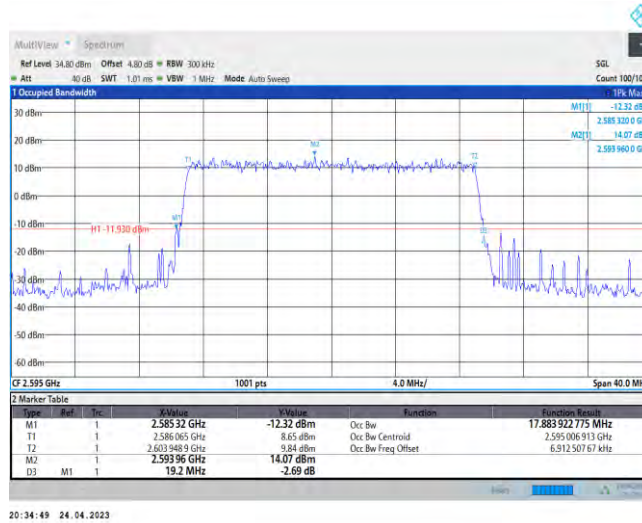
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Band38-20MHz-QPSK-37850-100RB#0



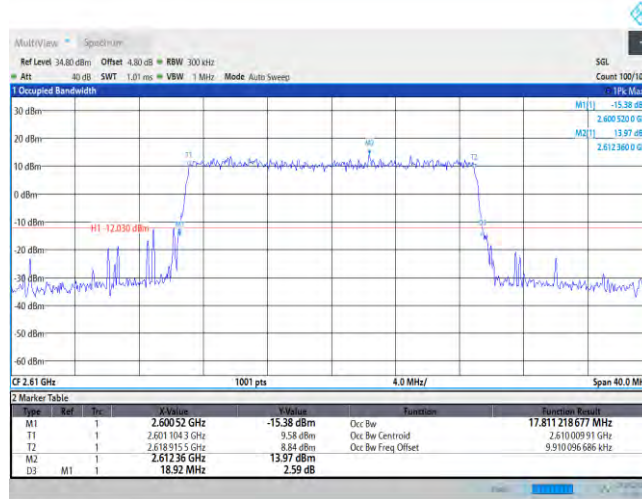
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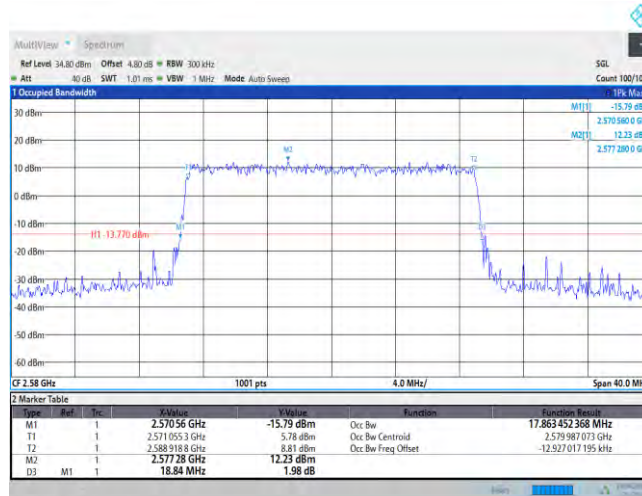
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Band38-20MHz-QPSK-38150-100RB#0



21:48:31 24.04.2023

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



20:34:04 24.04.2023

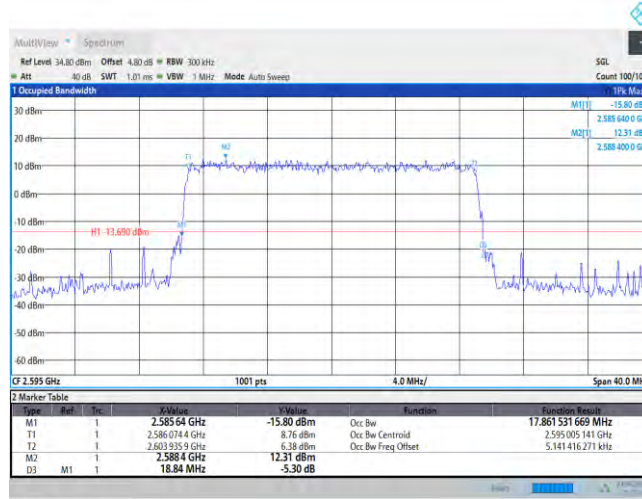


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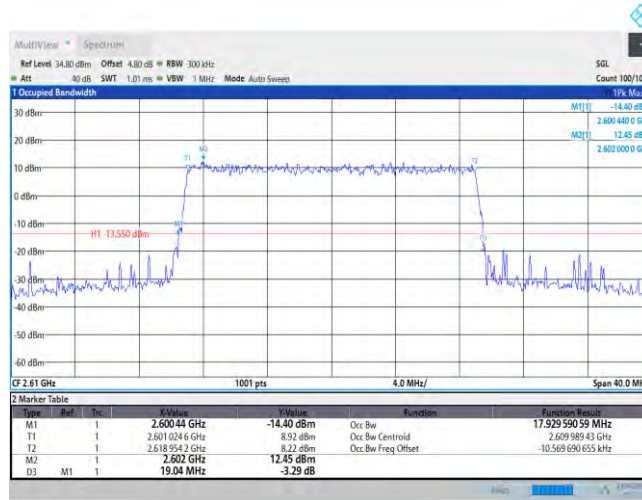


Band38-20MHz-16QAM-38000-100RB#0



20:35:02 24.04.2023

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



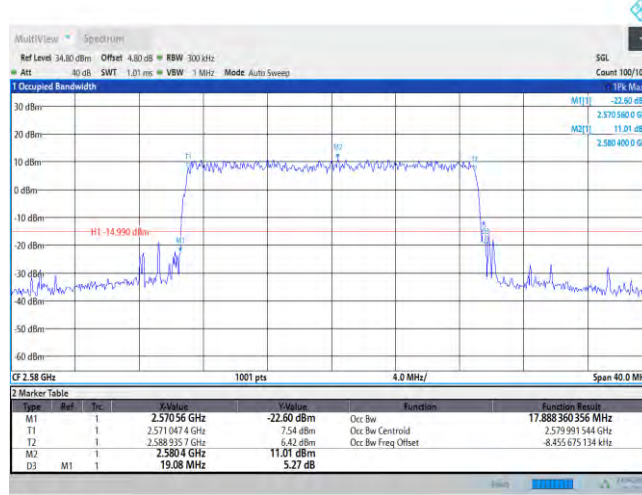
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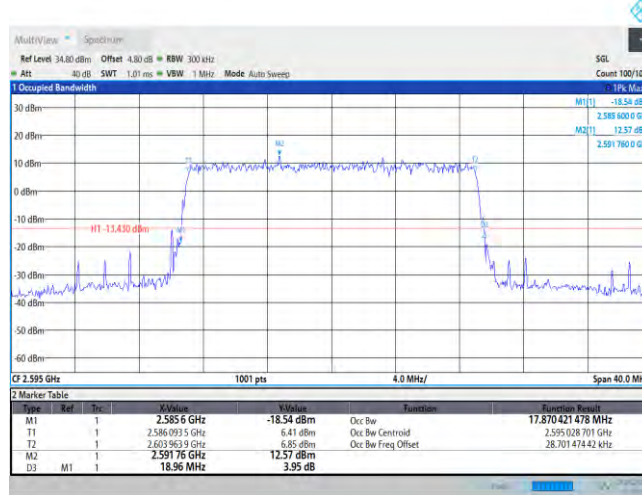
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Band38-20MHz-64QAM-37850-100RB#0



20:34:18 24.04.2023

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



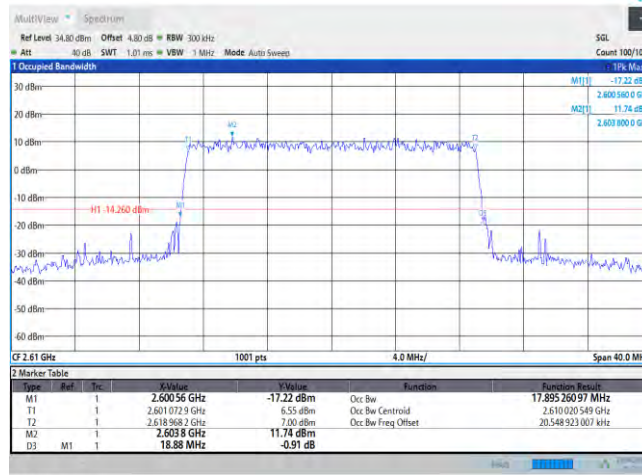
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Band38-20MHz-64QAM-38150-100RB#0



20:36:13 24.04.2023

Band38-20MHz-256QAM-37850-100RB#0



20:34:31 24.04.2023



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Band38-20MHz-256QAM-38000-100RB#0



20:35:29 24.04.2023

Band38-20MHz-256QAM-38150-100RB#0



21:49:11 24.04.2023



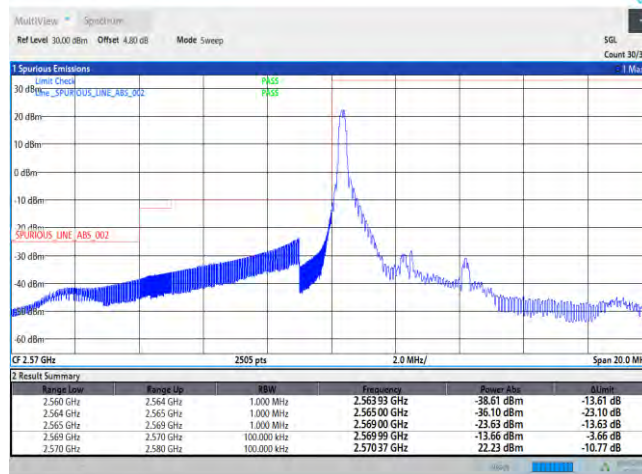
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## Band Edge

## Test Graphs

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



12:12:06 09.03.2023

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



12:13:35 09.03.2023

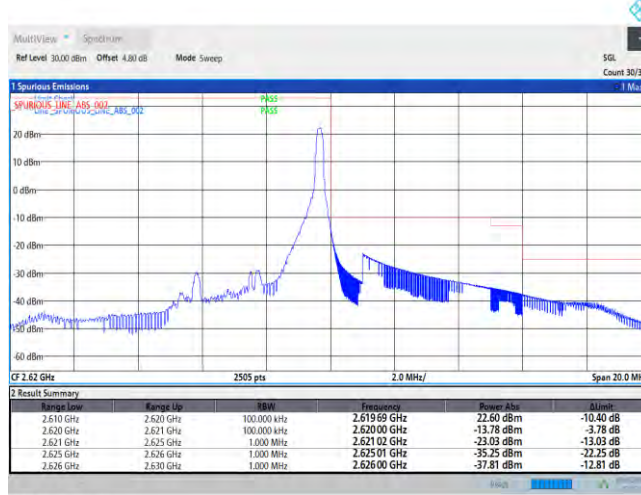


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Band38-5MHz-QPSK-38225-1RB#24



12:15:29 09.03.2023

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



12:17:04 09.03.2023

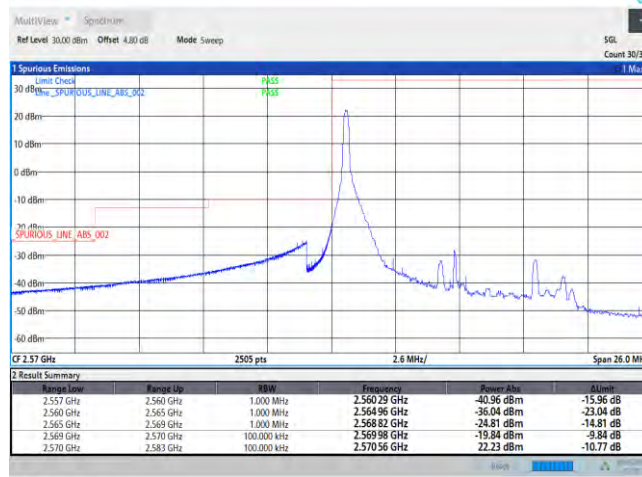


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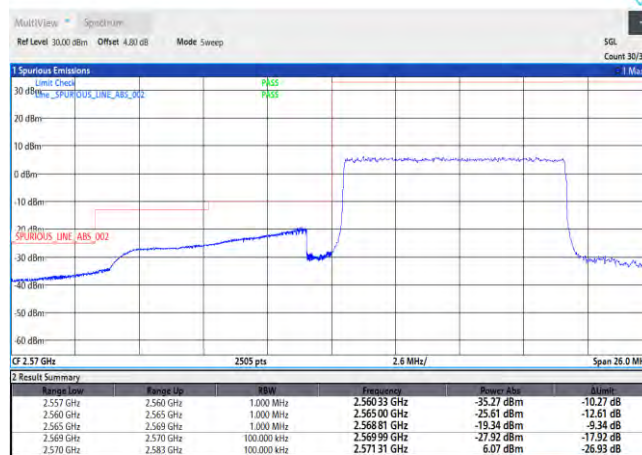


Band38-10MHz-QPSK-37800-1RB#0



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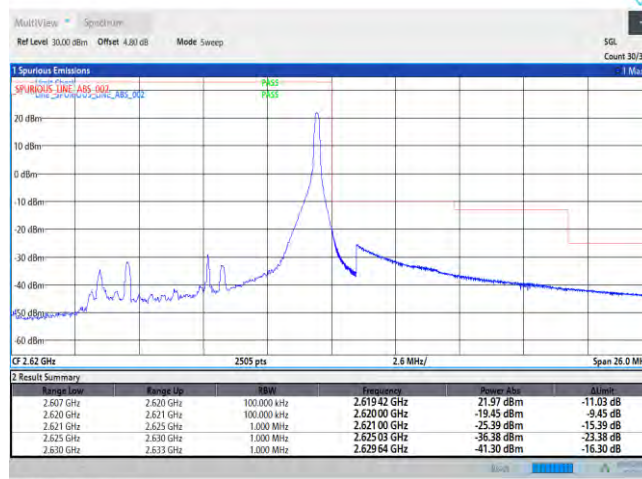


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Band38-10MHz-QPSK-38200-1RB#49



12:21:52 09.03.2023

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



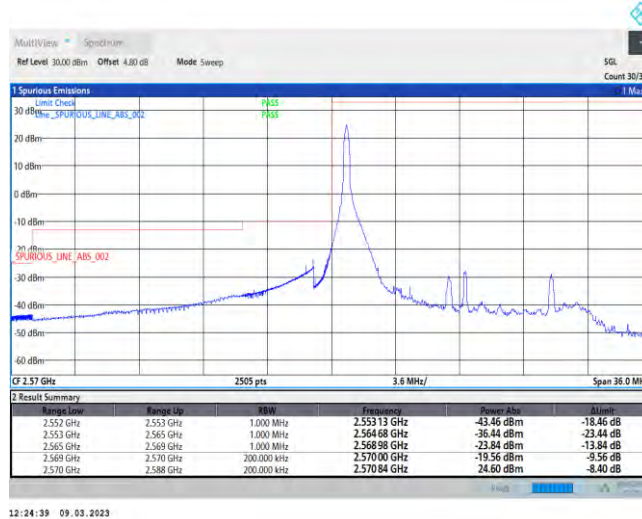
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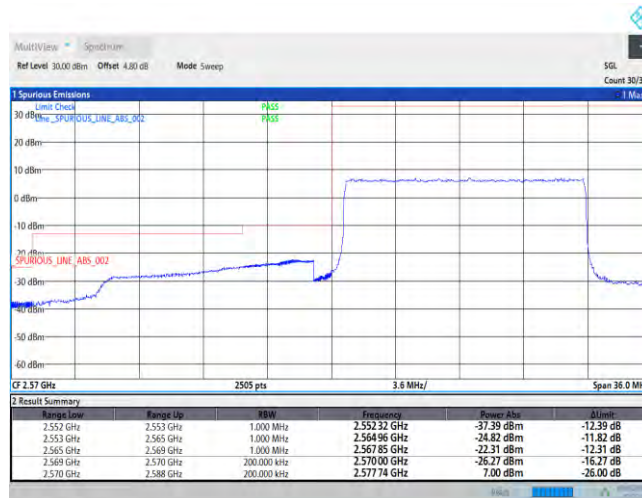
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Band38-15MHz-QPSK-37825-1RB#0



12:24:39 09.03.2023

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12:25:38 09.03.2023

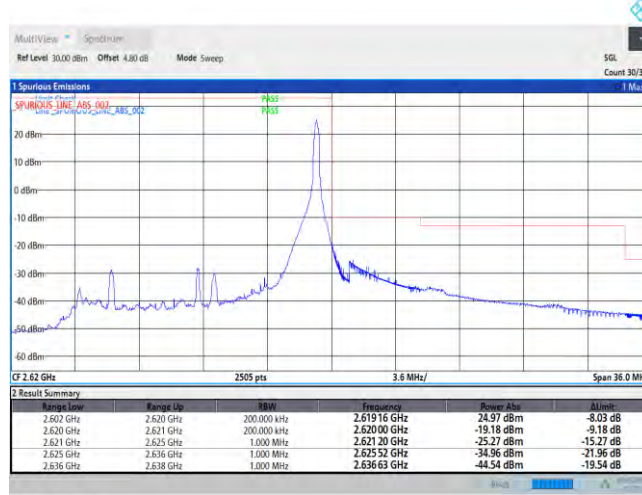


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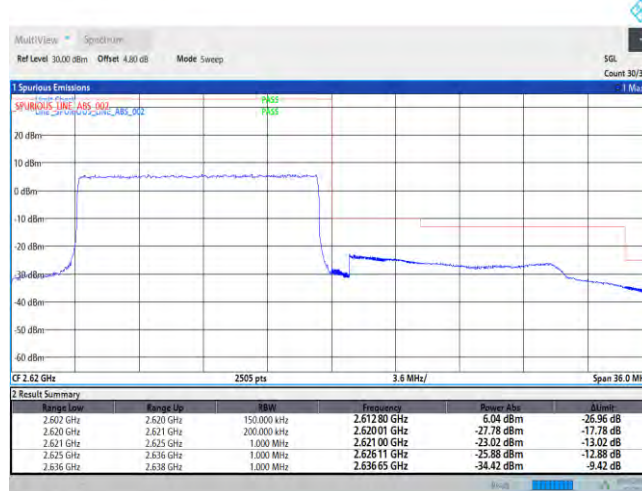


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12:27:32 09.03.2023

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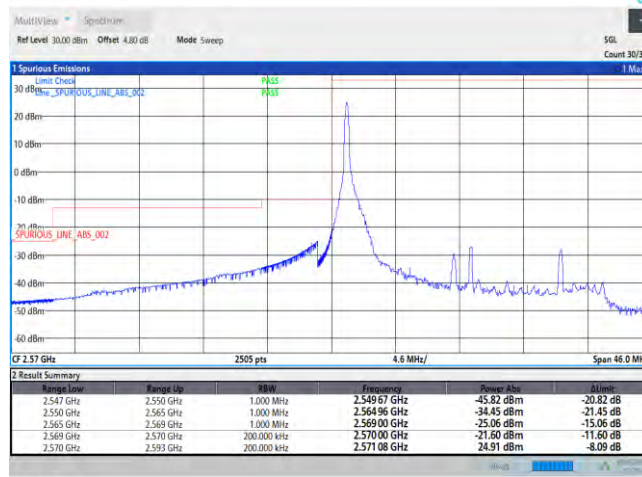
12:28:32 09.03.2023



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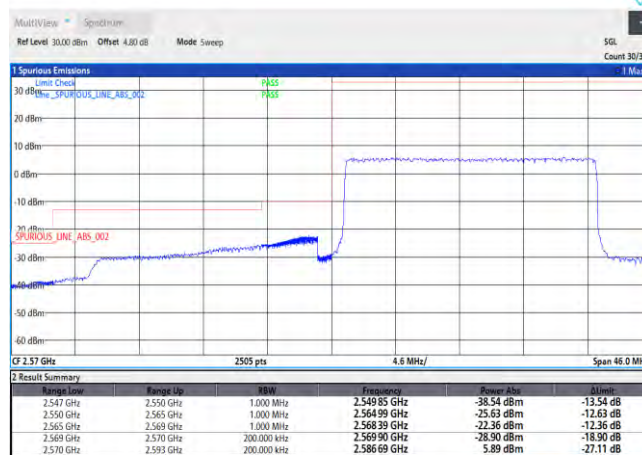
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Band38-20MHz-QPSK-37850-1RB#0



12:29:54 09.03.2023

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



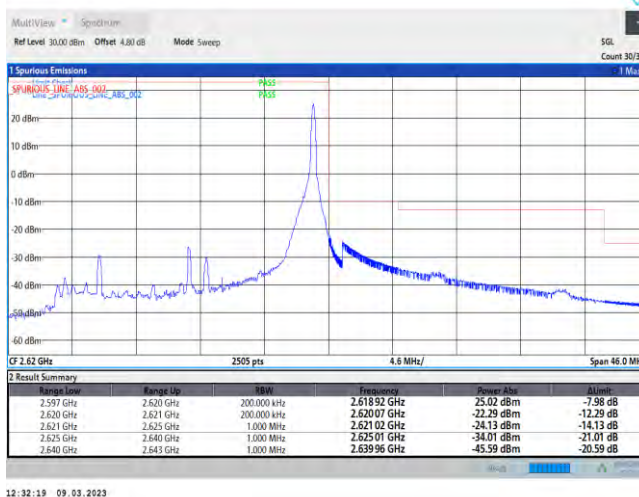
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Band38-20MHz-QPSK-38150-1RB#99



12:32:19 09.03.2023

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



12:33:19 09.03.2023



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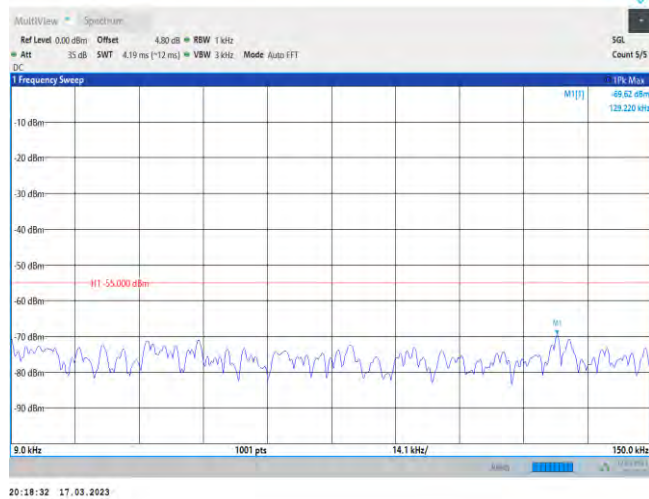
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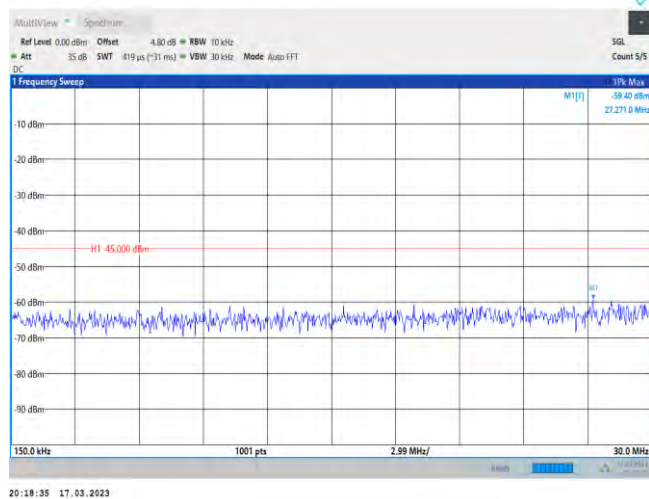
## Conducted Spurious Emission

### Test Graphs

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



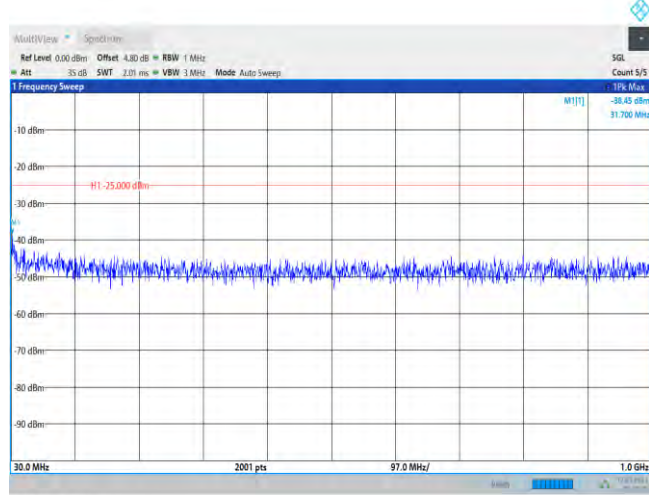
Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



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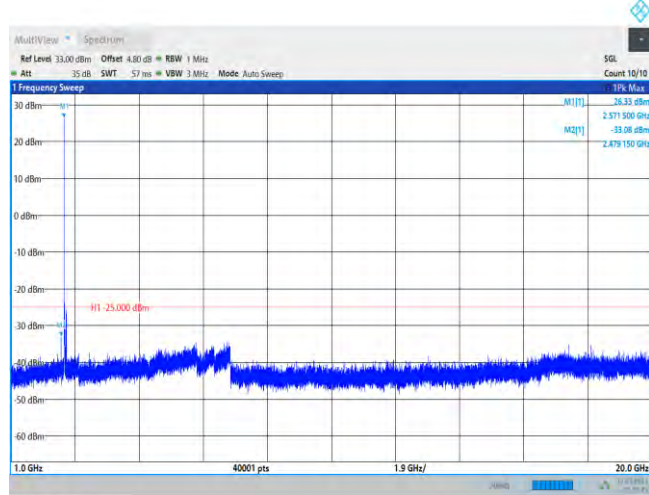
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



20:18:39 17.03.2023

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



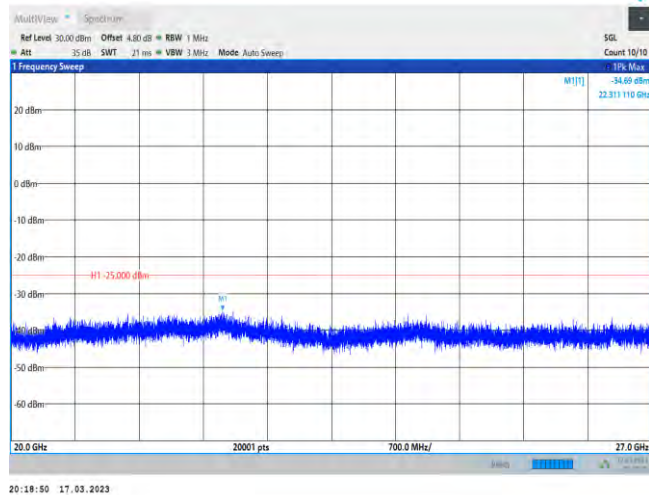
20:18:45 17.03.2023



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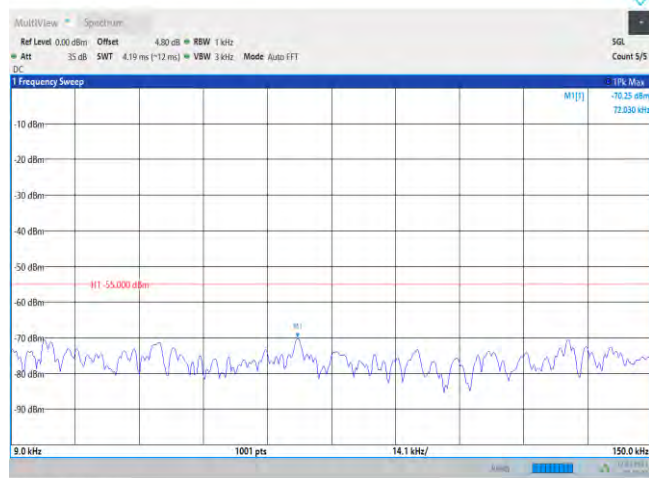
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



20:18:50 17.03.2023

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



20:19:03 17.03.2023

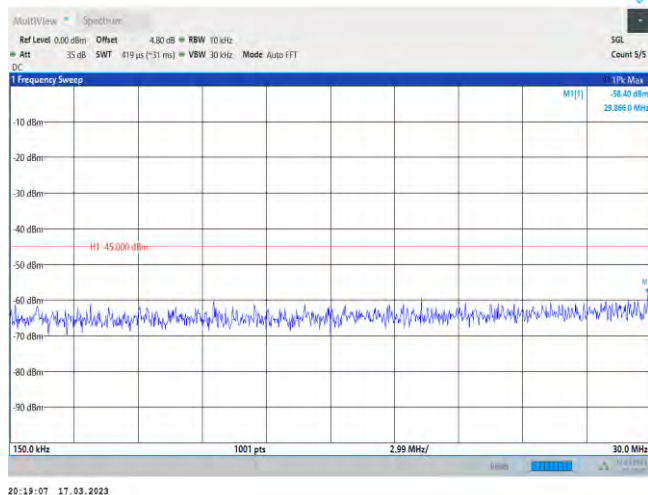


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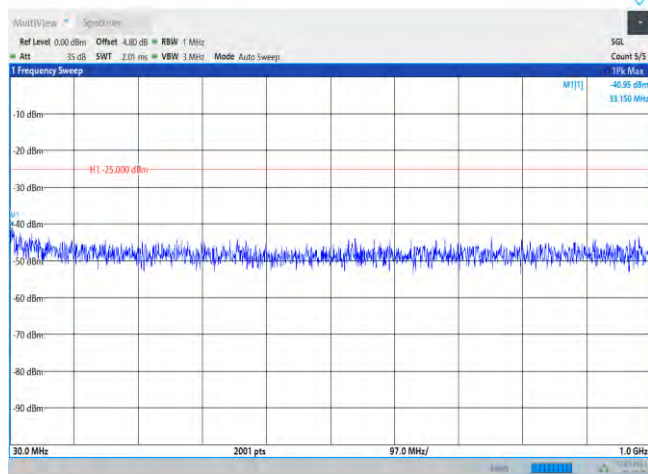


Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



20:19:07 17.03.2023

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



20:19:11 17.03.2023

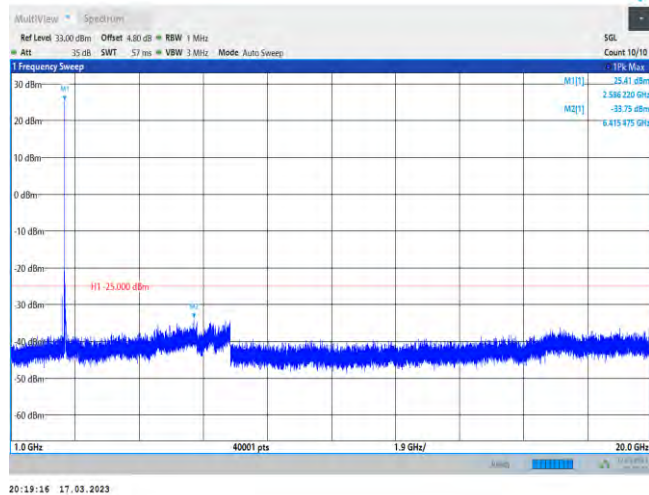


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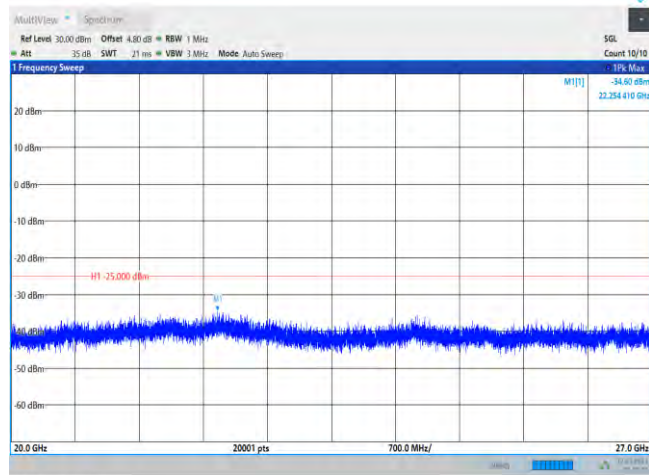
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



20:19:16 17.03.2023

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



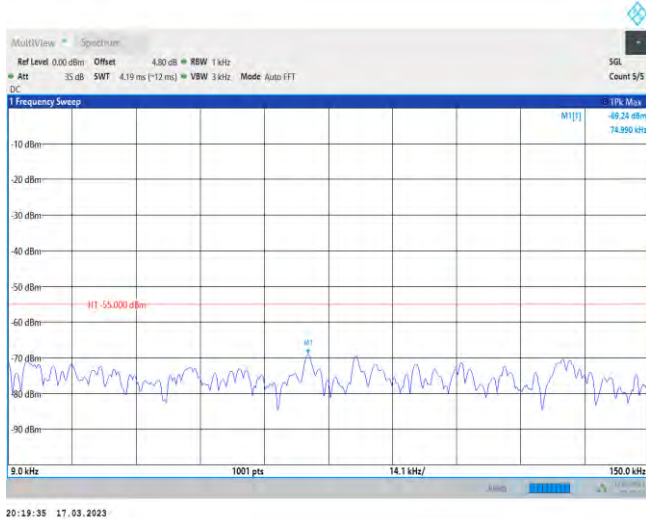
20:19:21 17.03.2023



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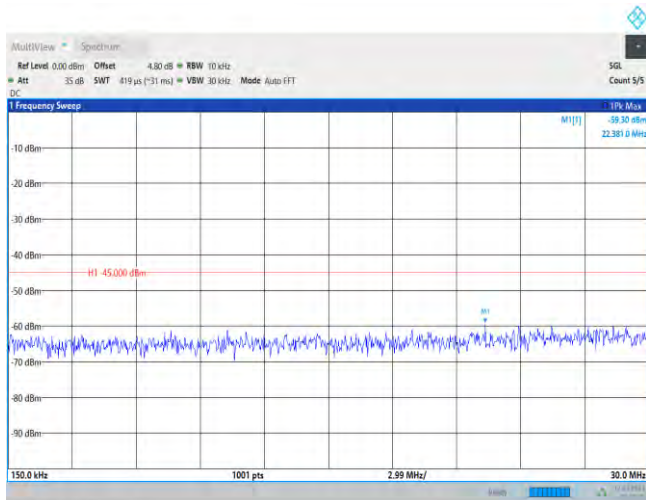
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



20:19:35 17.03.2023

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



20:19:39 17.03.2023

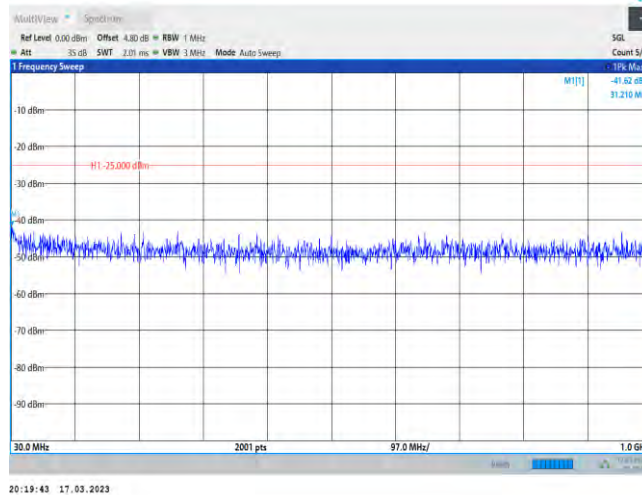


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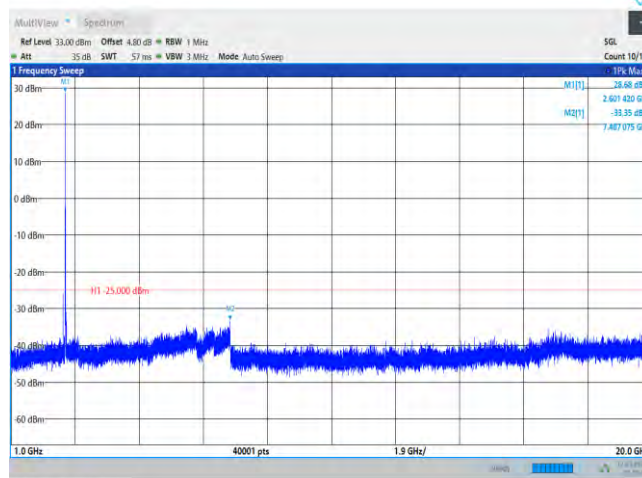


Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



20:19:43 17.03.2023

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



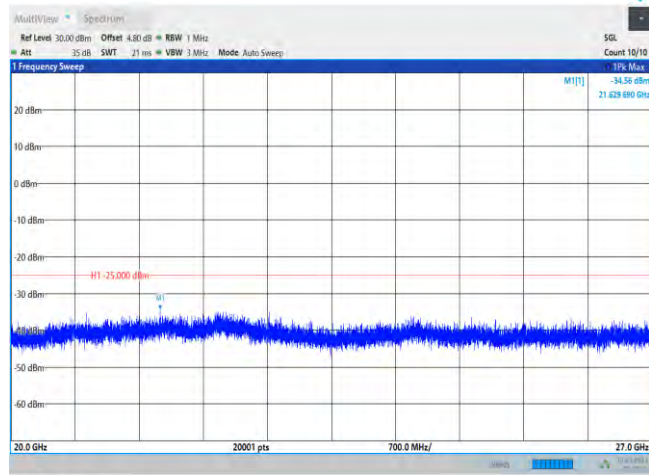
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



20:19:53 17.03.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band 38\_20MHz\_TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142	68.35	-45.33	32.96	-39.28	-25.00	14.28	138	134	Horizontal
2	7713.2700	43.73	-43.01	36.61	-57.93	-25.00	32.93	248	86	Horizontal
3	10284.3600	45.25	-39.15	38.83	-50.33	-25.00	25.33	324	328	Horizontal
4	12855.4500	34.16	-36.99	39.69	-58.40	-25.00	33.40	168	55	Horizontal
5	15426.5400	33.63	-33.99	38.67	-56.95	-25.00	31.95	214	70	Horizontal
6	17997.6300	32.84	-34.58	42.23	-54.76	-25.00	29.76	278	0	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142	73.68	-45.33	32.96	-33.95	-25.00	8.95	296	16	Vertical
2	7713.2700	46.65	-43.01	36.61	-55.01	-25.00	30.01	146	198	Vertical
3	10284.3600	47.59	-39.15	38.83	-47.99	-25.00	22.99	239	195	Vertical
4	12855.4500	35.52	-36.99	39.69	-57.04	-25.00	32.04	211	225	Vertical
5	15426.5400	33.46	-33.99	38.67	-57.12	-25.00	32.12	159	28	Vertical
6	17997.6300	33.14	-34.58	42.23	-54.46	-25.00	29.46	306	135	Vertical



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Test Band = LTE Band 38\_20MHz \_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5172	70.13	-45.31	32.97	-37.46	-25.00	12.46	296	256	Horizontal
2	7758.2700	42.54	-42.64	36.70	-58.66	-25.00	33.66	186	286	Horizontal
3	10344.3600	44.91	-39.05	38.85	-50.56	-25.00	25.56	239	91	Horizontal
4	12930.4500	34.60	-37.18	39.76	-58.08	-25.00	33.08	142	211	Horizontal
5	15516.5400	31.68	-35.30	38.55	-60.33	-25.00	35.33	289	120	Horizontal
6	17016	35.27	-33.38	38.51	-54.86	-25.00	29.86	205	2	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5172	74.67	-45.31	32.97	-32.92	-25.00	7.92	258	29	Vertical
2	7758	51.21	-42.65	36.70	-50.00	-25.00	25.00	162	212	Vertical
3	10344.3600	53.22	-39.05	38.85	-42.25	-25.00	17.25	173	197	Vertical
4	12930.4500	34.80	-37.18	39.76	-57.88	-25.00	32.88	256	47	Vertical
5	15516.5400	31.91	-35.30	38.55	-60.10	-25.00	35.10	340	243	Vertical
6	17031	37.61	-33.57	38.52	-52.71	-25.00	27.71	153	107	Vertical



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Test Band = LTE Band 38\_20MHz \_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202	73.52	-45.28	32.99	-34.03	-25.00	9.03	286	255	Horizontal
2	7803	44.46	-42.33	36.78	-56.34	-25.00	31.34	174	3	Horizontal
3	10404.3600	42.60	-39.00	38.86	-52.80	-25.00	27.80	255	74	Horizontal
4	13005.4500	34.54	-37.31	39.83	-58.20	-25.00	33.20	138	16	Horizontal
5	15606.5400	32.97	-34.87	38.43	-58.73	-25.00	33.73	217	0	Horizontal
6	17179.5	36.65	-34.88	38.60	-54.89	-25.00	29.89	185	211	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5202	78.63	-45.28	32.99	-28.92	-25.00	3.92	204	18	Vertical
2	7803	49.96	-42.33	36.78	-50.84	-25.00	25.84	186	225	Vertical
3	10404.3600	40.11	-39.00	38.86	-55.29	-25.00	30.29	233	122	Vertical
4	13005.4500	35.09	-37.31	39.83	-57.65	-25.00	32.65	298	300	Vertical
5	15606.5400	33.28	-34.87	38.43	-58.42	-25.00	33.42	147	0	Vertical
6	17179.5	37.08	-34.88	38.60	-54.46	-25.00	29.46	165	0	Vertical



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Test Band = LTE 38A\_66A\_TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4075.5	43.49	-45.83	30.91	-66.69	-25.00	41.69	297	73	Horizontal
2	5142	68.84	-45.33	32.96	-38.79	-25.00	13.79	248	352	Horizontal
3	7713.2700	42.13	-43.01	36.61	-59.53	-25.00	34.53	156	42	Horizontal
4	10212.5400	35.49	-39.45	38.81	-60.40	-25.00	35.40	231	352	Horizontal
5	11914.6300	33.13	-37.18	38.88	-60.43	-25.00	35.43	166	105	Horizontal
6	14492.25	33.56	-34.84	40.02	-56.52	-25.00	31.52	320	224	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4008	43.76	-46.02	30.81	-66.71	-25.00	41.71	248	360	Vertical
2	5142	70.84	-45.33	32.96	-36.79	-25.00	11.79	175	16	Vertical
3	7713.2700	47.34	-43.01	36.61	-54.32	-25.00	29.32	192	300	Vertical
4	10284	44.23	-39.16	38.83	-51.35	-25.00	26.35	254	209	Vertical
5	11914.6300	33.32	-37.18	38.88	-60.24	-25.00	35.24	156	342	Vertical
6	14218.5	37.07	-35.46	40.22	-53.43	-25.00	28.43	166	104	Vertical



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Test Band = LTE 38A\_66A\_TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.1800	44.27	-46.27	29.48	-67.78	-25.00	42.78	142	90	Horizontal
2	5172	69.55	-45.31	32.97	-38.04	-25.00	13.04	201	225	Horizontal
3	7758.2700	42.47	-42.64	36.70	-58.73	-25.00	33.73	198	270	Horizontal
4	8635.4500	38.57	-41.46	37.81	-60.34	-25.00	35.34	213	287	Horizontal
5	10344.3600	39.25	-39.05	38.85	-56.22	-25.00	31.22	255	87	Horizontal
6	12089.6300	34.03	-37.37	39.04	-59.56	-25.00	34.56	175	196	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.1800	43.63	-46.27	29.48	-68.42	-25.00	43.42	316	148	Vertical
2	5172	70.70	-45.31	32.97	-36.89	-25.00	11.89	248	3	Vertical
3	7758.2700	44.20	-42.64	36.70	-57.00	-25.00	32.00	216	210	Vertical
4	8635.4500	38.30	-41.46	37.81	-60.61	-25.00	35.61	284	270	Vertical
5	10344.3600	43.45	-39.05	38.85	-52.02	-25.00	27.02	152	179	Vertical
6	12089.6300	34.09	-37.37	39.04	-59.50	-25.00	34.50	132	16	Vertical



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Test Band = LTE 38A\_66A\_TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.1800	43.79	-46.25	29.52	-68.20	-25.00	43.20	247	134	Horizontal
2	5202	73.19	-45.28	32.99	-34.36	-25.00	9.36	159	360	Horizontal
3	7803.2700	41.29	-42.33	36.78	-59.51	-25.00	34.51	216	300	Horizontal
4	8760.4500	38.98	-41.42	38.02	-59.69	-25.00	34.69	235	61	Horizontal
5	10404.3600	38.25	-39.00	38.86	-57.15	-25.00	32.15	224	300	Horizontal
6	12262.6300	33.61	-37.44	39.11	-59.98	-25.00	34.98	154	148	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.1800	42.99	-46.25	29.52	-69.00	-25.00	44.00	172	285	Vertical
2	5202	75.11	-45.28	32.99	-32.44	-25.00	7.44	213	14	Vertical
3	7803	48.99	-42.33	36.78	-51.81	-25.00	26.81	264	225	Vertical
4	8760.4500	39.14	-41.42	38.02	-59.53	-25.00	34.53	186	30	Vertical
5	10404.3600	36.17	-39.00	38.86	-59.23	-25.00	34.23	229	225	Vertical
6	12262.6300	33.69	-37.44	39.11	-59.90	-25.00	34.90	134	91	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	7.20	0.002775	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-3.00	-0.001156	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	9.00	0.003468	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	4.60	0.001773	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	4.20	0.001618	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-3.00	-0.001156	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	7.70	0.002967	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	0.00	0.000000	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	1.60	0.000617	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	3.40	0.001310	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	0.30	0.000116	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-2.80	-0.001079	PASS

---End of Attachment---



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