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Rev.: 01

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Appendix B.12

LTE Band 38



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

Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.34	24.04	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.49	24.19	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.61	24.31	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.37	23.07	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.70	24.40	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.45	24.15	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.53	24.23	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.25	22.95	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.35	24.05	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.37	24.07	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.47	24.17	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.42	23.12	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.24	22.94	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.49	23.19	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.30	23.00	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.54	22.24	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.33	23.03	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.46	23.16	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.57	23.27	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.47	22.17	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.50	23.20	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.35	23.05	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.53	23.23	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.53	22.23	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.62	22.32	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.46	22.16	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.39	22.09	33.00	PASS



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Band38	5MHz	64QAM	37775	25RB#0	20.24	20.94	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.17	21.87	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.72	22.42	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.45	22.15	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.64	21.34	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.46	22.16	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.37	22.07	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.50	22.20	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.55	21.25	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.58	24.28	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.53	24.23	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.31	24.01	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.46	23.16	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.49	24.19	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.35	24.05	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.21	23.91	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.62	23.32	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.19	23.89	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.56	24.26	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.42	24.12	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.28	22.98	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.35	23.05	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.40	23.10	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.26	22.96	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.66	22.36	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.32	23.02	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.58	23.28	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.73	23.43	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.65	22.35	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.29	22.99	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.37	23.07	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.51	23.21	33.00	PASS



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Band38	10MHz	16QAM	38200	50RB#0	21.57	22.27	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.51	22.21	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.58	22.28	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.15	21.85	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.59	21.29	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.30	22.00	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.54	22.24	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.52	22.22	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.60	21.30	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.37	22.07	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.36	22.06	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	21.34	22.04	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.32	21.02	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.14	23.84	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.08	23.78	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.32	24.02	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.15	22.85	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.07	23.77	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.48	24.18	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.44	24.14	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.56	23.26	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.18	23.88	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.20	23.90	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.06	23.76	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.48	23.18	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.49	23.19	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.39	23.09	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.01	22.71	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.10	21.80	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.27	22.97	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.46	23.16	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.13	22.83	33.00	PASS



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Band38	15MHz	16QAM	38000	75RB#0	21.23	21.93	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.22	22.92	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.44	23.14	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.31	23.01	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.31	22.01	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.09	21.79	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.26	21.96	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.45	22.15	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.43	21.13	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.12	21.82	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.16	21.86	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.00	21.70	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.58	21.28	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.04	21.74	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.55	22.25	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.30	22.00	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.28	20.98	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.10	23.80	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.99	23.69	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.35	24.05	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.17	22.87	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.40	24.10	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.59	24.29	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.08	23.78	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.18	22.88	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.36	24.06	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.04	23.74	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.24	23.94	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.31	23.01	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.15	22.85	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.18	22.88	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.18	22.88	33.00	PASS



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Band38	20MHz	16QAM	37850	100RB#0	21.36	22.06	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.09	22.79	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.22	22.92	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.30	23.00	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.16	21.86	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.33	23.03	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.28	22.98	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.95	22.65	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.45	22.15	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.35	22.05	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.51	22.21	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.39	22.09	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.39	21.09	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.17	21.87	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.17	21.87	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.06	21.76	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.20	20.90	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	21.15	21.85	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	20.98	21.68	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	21.21	21.91	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.53	21.23	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	7.52	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.56	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.52	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.34	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.24	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	8.24	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.66	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.60	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.66	13	PASS



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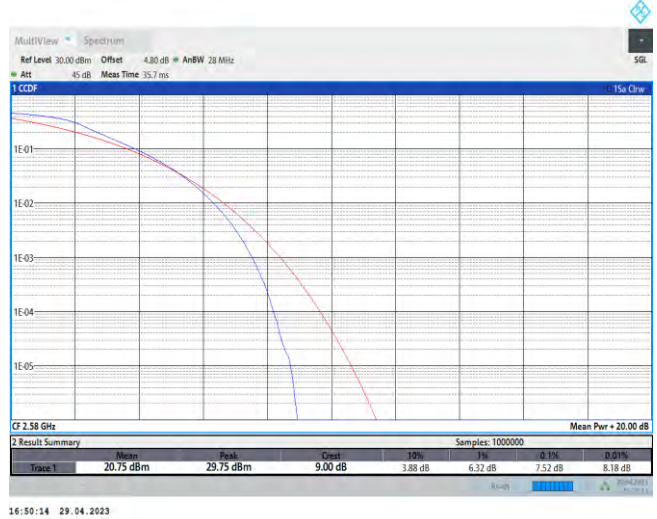
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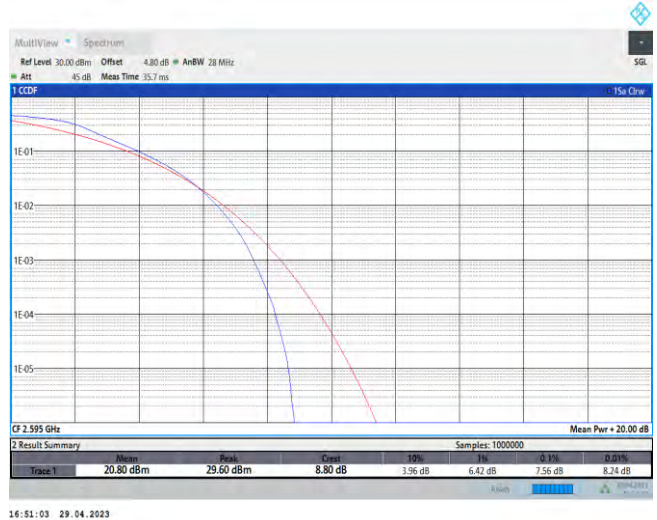
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Test Graphs

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



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

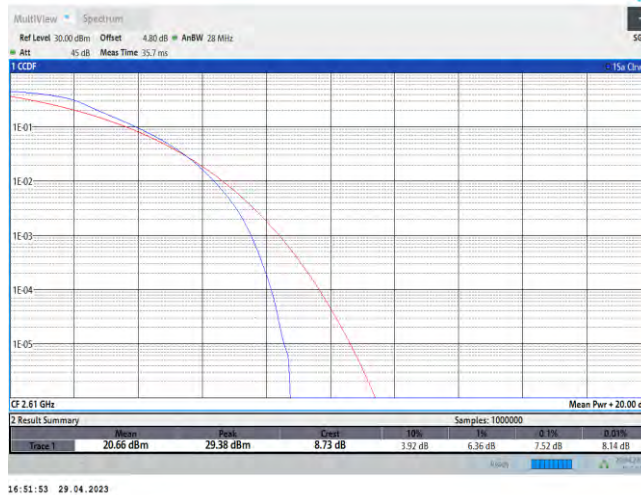


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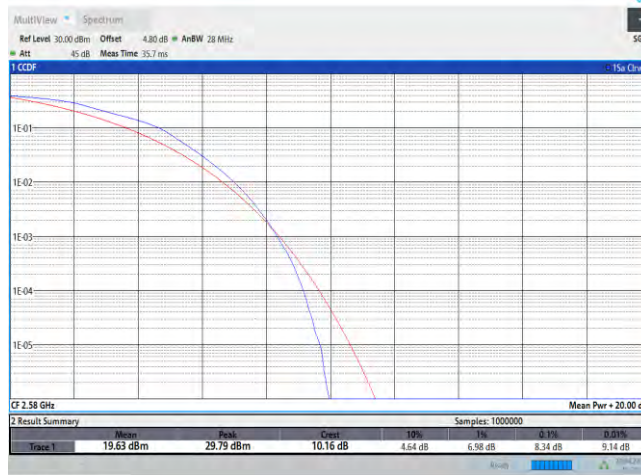
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Band38-20MHz-QPSK-38150-100RB#0



16:51:53 29.04.2023

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



16:50:30 29.04.2023



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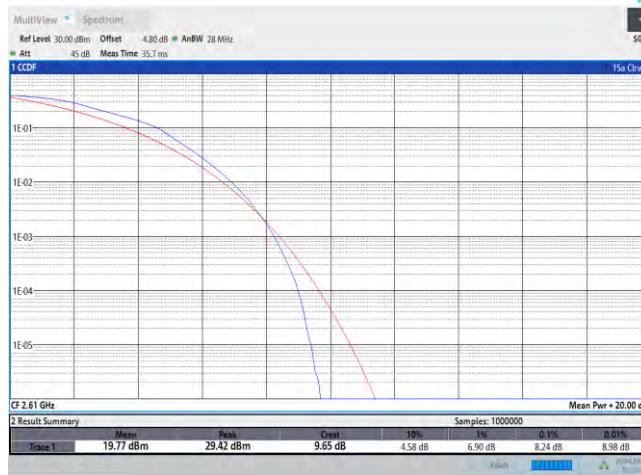
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Band38-20MHz-16QAM-38000-100RB#0



16:51:20 29.04.2023

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



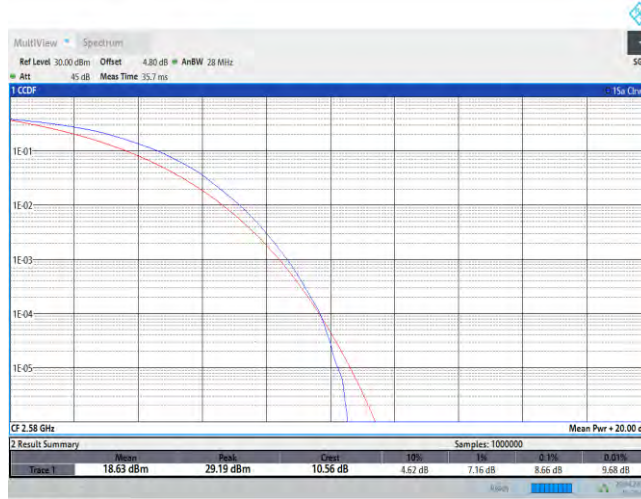
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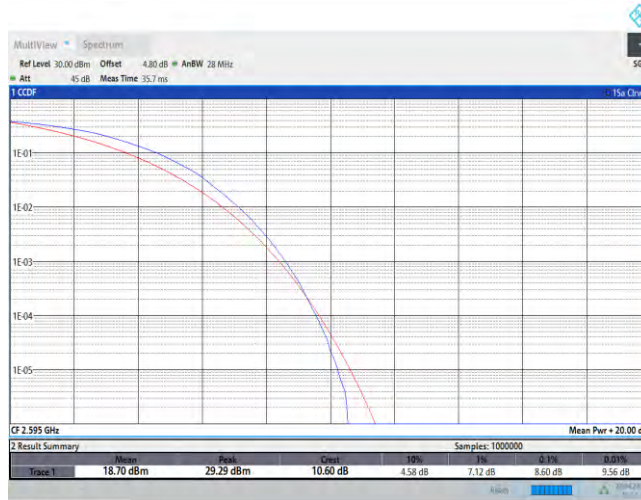
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Band38-20MHz-64QAM-37850-100RB#0



16:50:47 29.04.2023

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



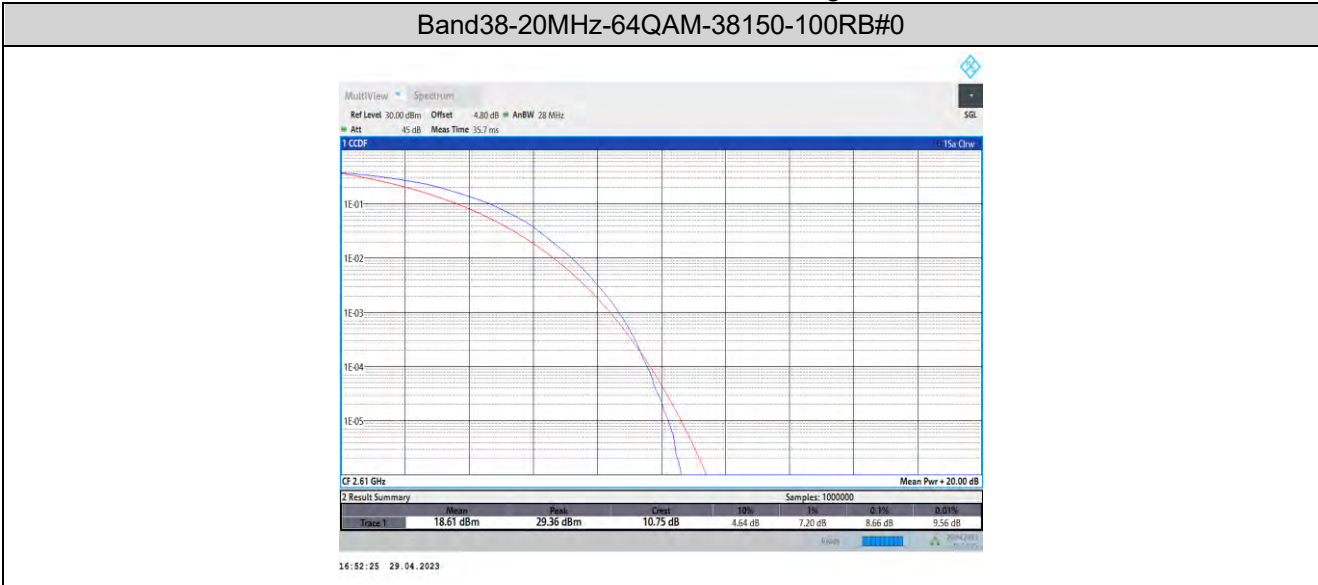
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Band38-20MHz-64QAM-38150-100RB#0



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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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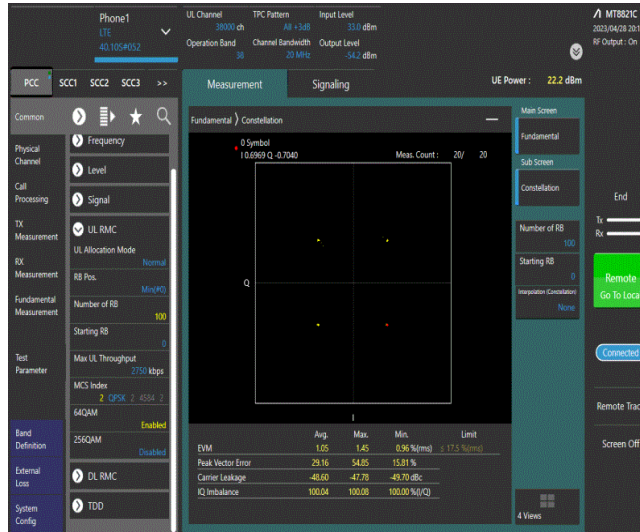
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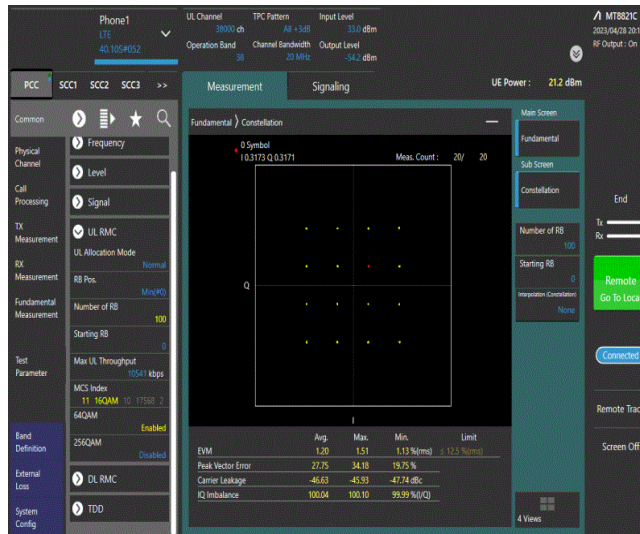
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Test Graphs

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



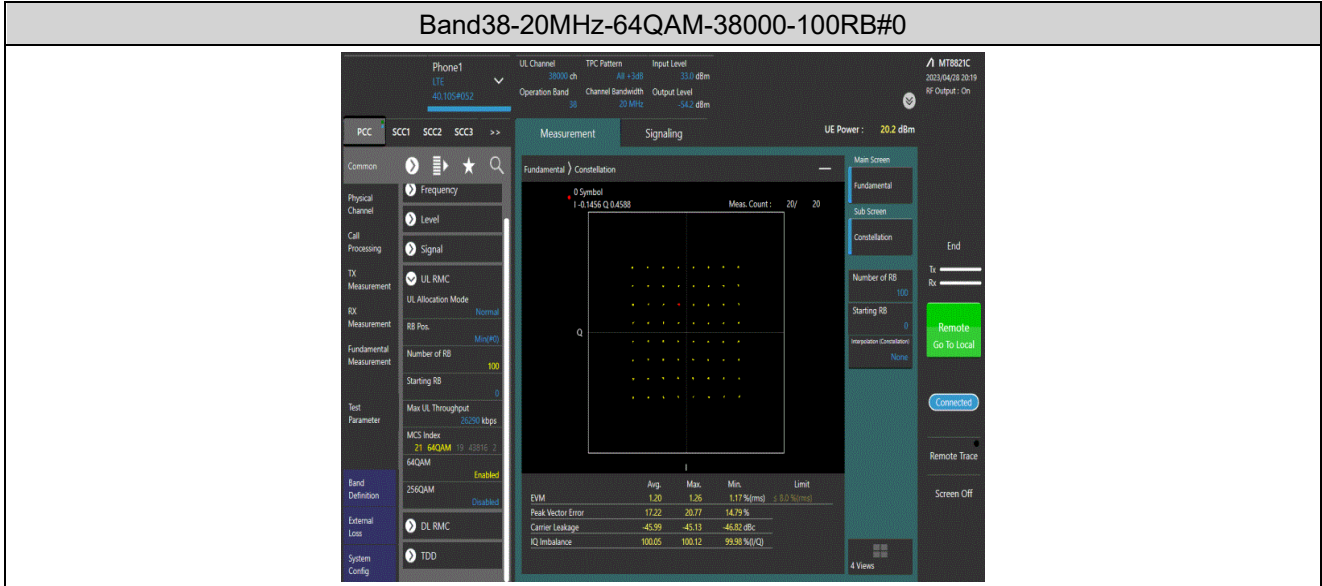
Band38-20MHz-16QAM-38000-100RB#0



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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	4.477	4.98	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.455	4.91	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.468	4.91	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.480	4.91	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.88	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.471	4.95	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.482	5.19	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.469	4.96	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.476	4.89	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.919	9.72	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.982	9.84	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.968	9.80	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.946	9.96	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.950	9.78	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.939	9.62	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.972	9.70	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.952	9.72	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.956	9.80	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.481	14.91	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.459	14.70	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.494	15.60	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.465	14.79	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.489	14.70	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.444	14.82	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.493	15.09	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.440	14.85	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.497	14.67	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.912	19.52	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.950	19.52	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.911	19.36	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.897	19.20	PASS



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Report No.: SEWM2305000160RG01

Rev.: 01

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Band38	20MHz	16QAM	38000	100RB#0	17.951	19.12	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.868	19.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.965	19.08	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.938	19.24	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.889	19.56	PASS



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Test Graphs

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



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



23:53:07 28.04.2023



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



23:53:46 28.04.2023

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



23:52:40 28.04.2023



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



23:53:20 28.04.2023

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



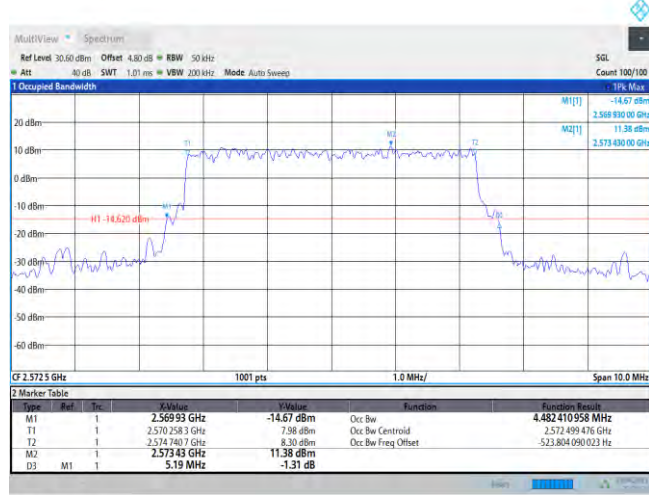
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Band38-5MHz-64QAM-37775-25RB#0



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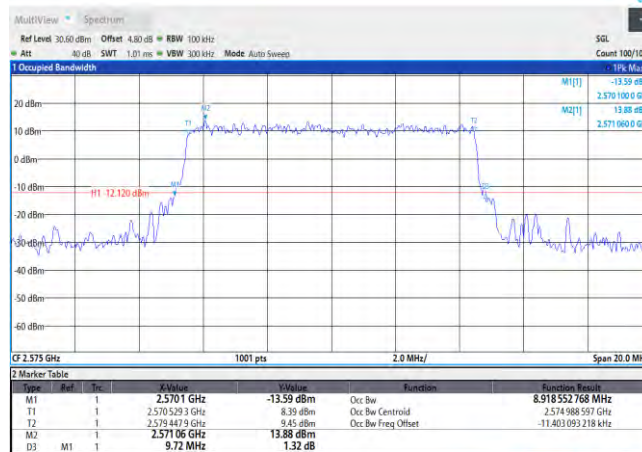
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Band38-5MHz-64QAM-38225-25RB#0



23:54:12 28.04.2023

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



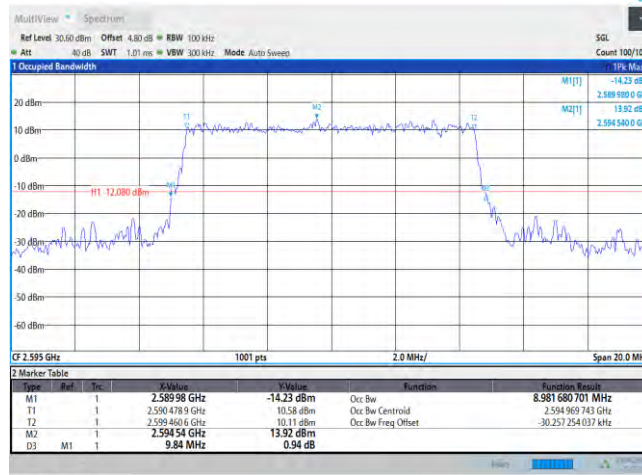
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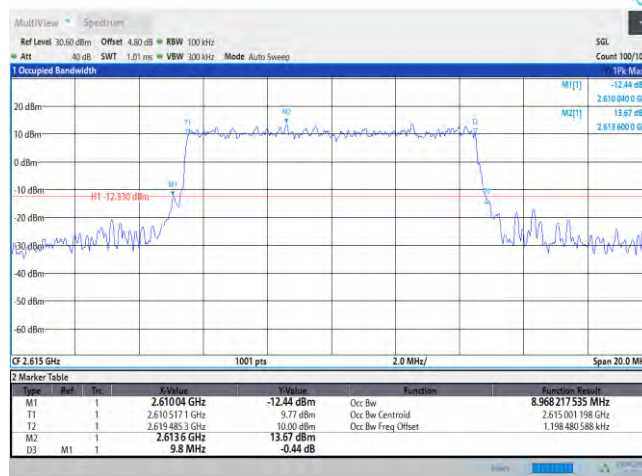
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Band38-10MHz-QPSK-38000-50RB#0



23:55:20 28. 04. 2023

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



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



23:54:54 28.04.2023

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



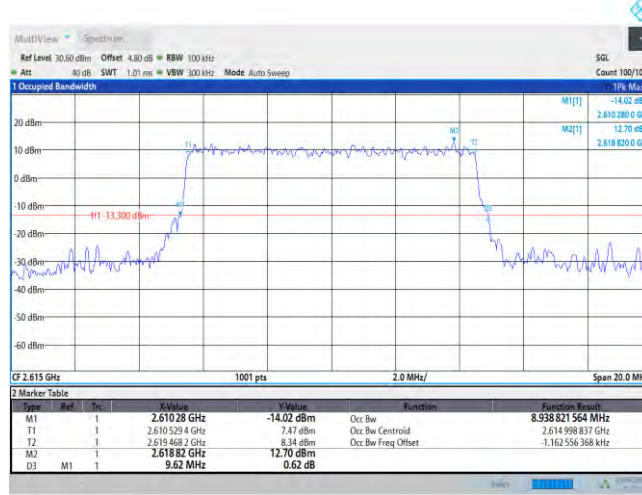
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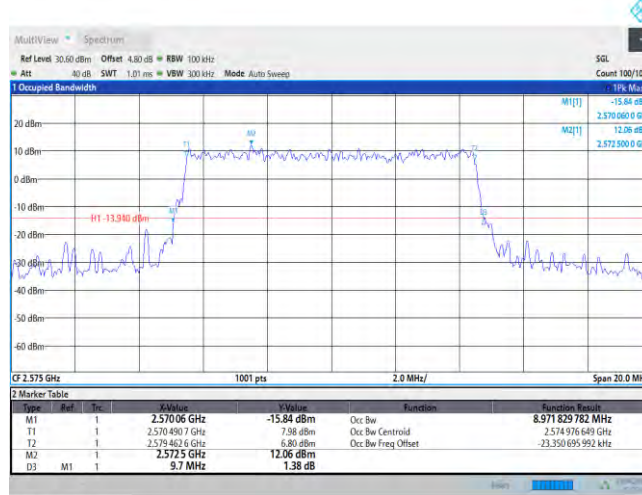
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Band38-10MHz-16QAM-38200-50RB#0



23:56:13 28.04.2023

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



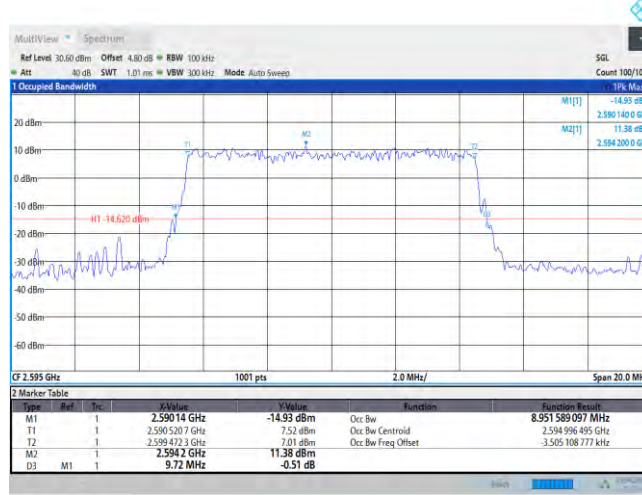
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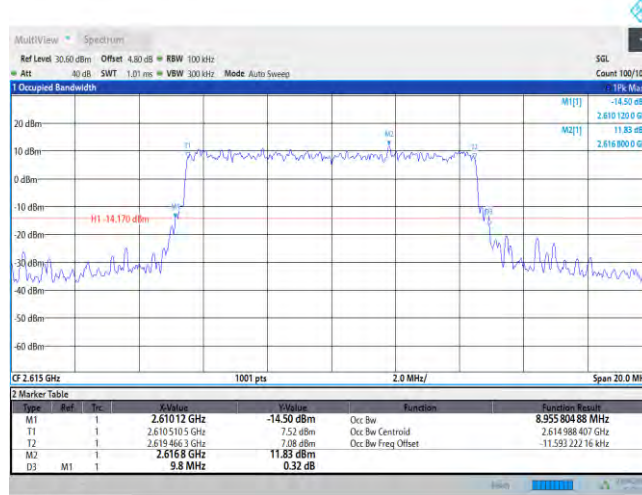
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Band38-10MHz-64QAM-38000-50RB#0



23:55:46 28.04.2023

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



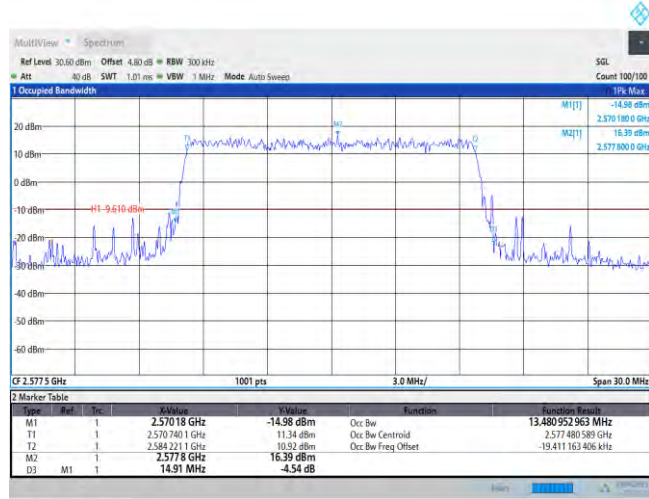
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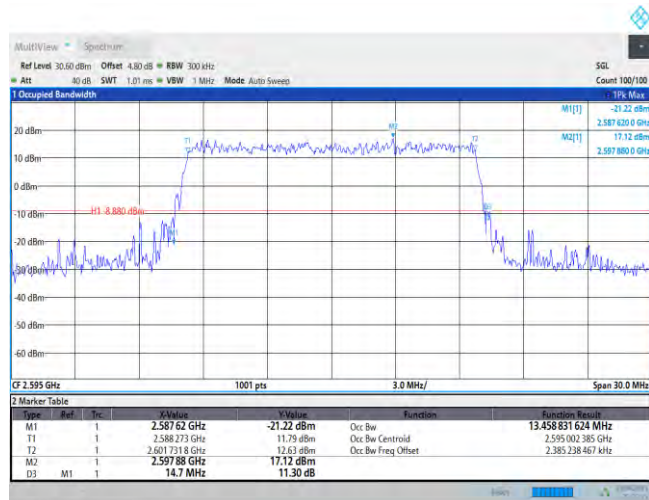
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Band38-15MHz-QPSK-37825-75RB#0



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



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



23:57:07 28.04.2023

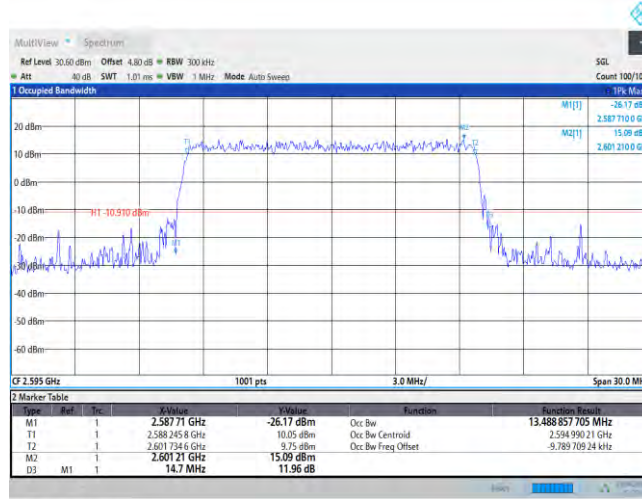


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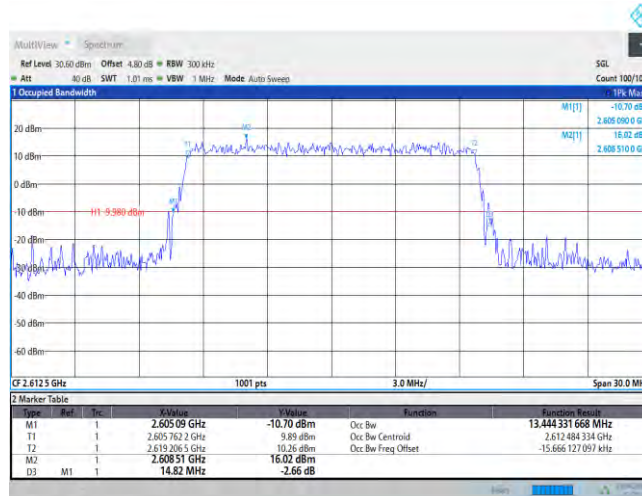
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Band38-15MHz-16QAM-38000-75RB#0



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



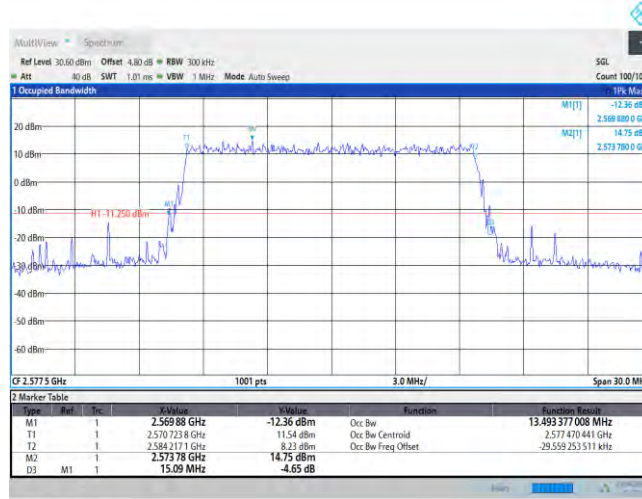
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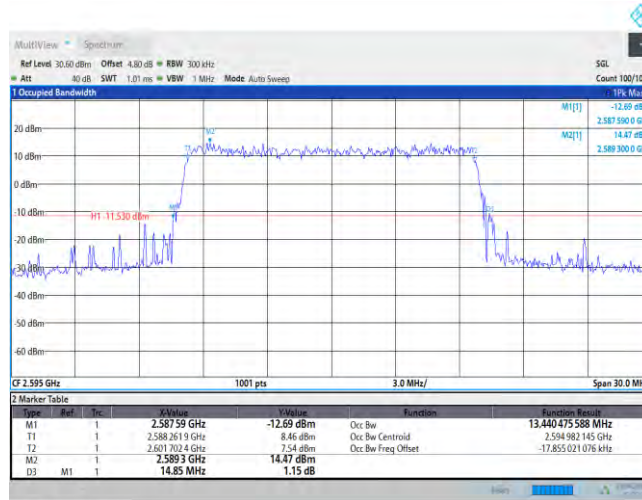
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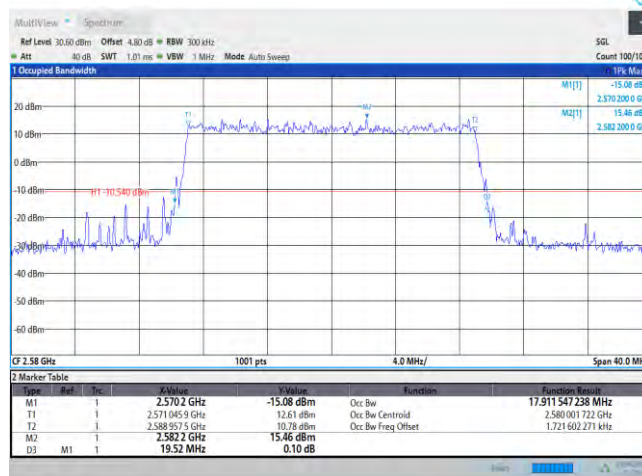
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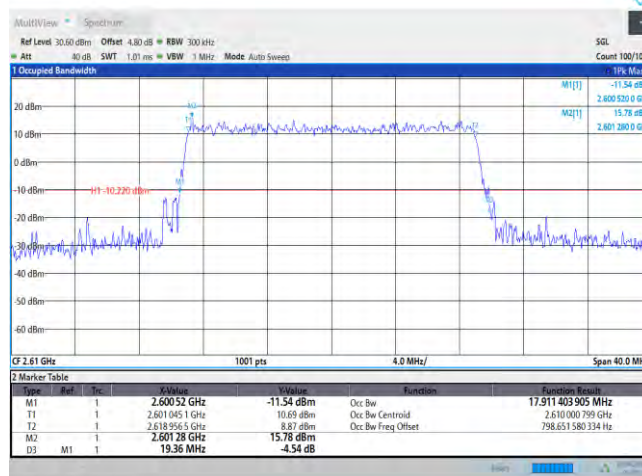
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Band38-20MHz-QPSK-38000-100RB#0



23:59:47 29. 04. 2023

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



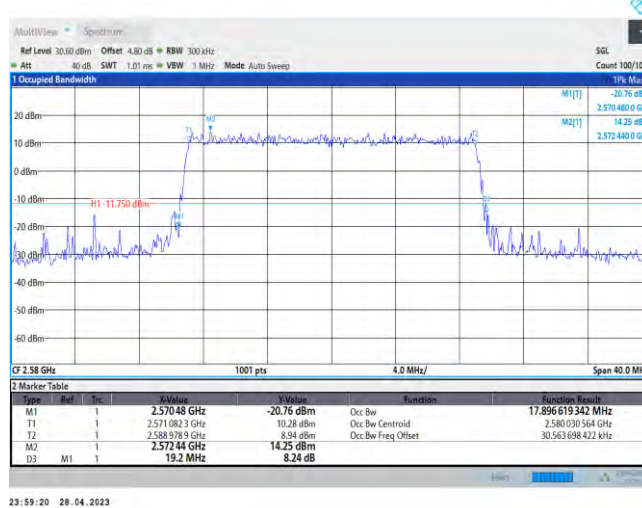
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Band38-20MHz-16QAM-37850-100RB#0



23:59:20 28.04.2023

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



00:00:00 29.04.2023



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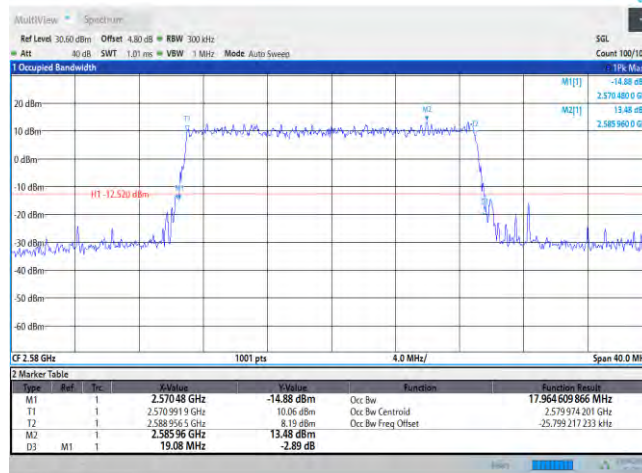
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Band38-20MHz-16QAM-38150-100RB#0



00:00:40 29.04.2023

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



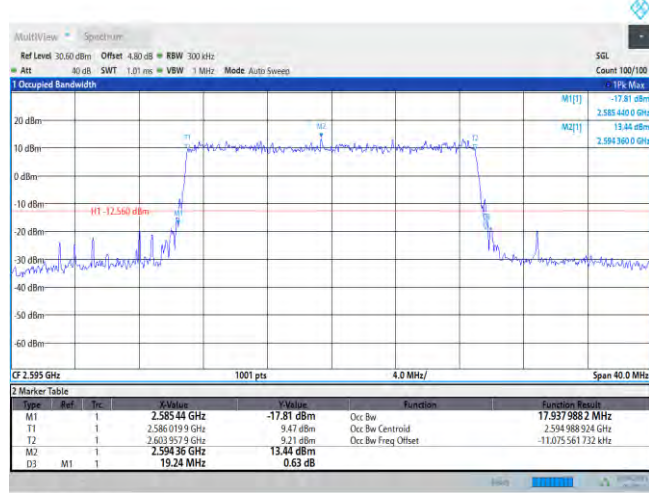
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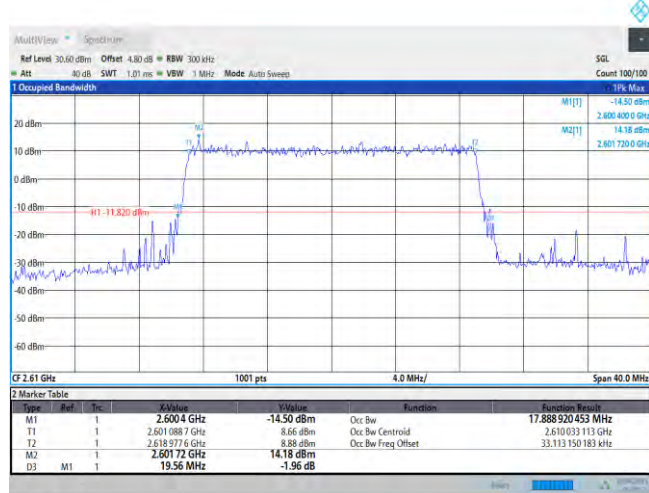
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Band38-20MHz-64QAM-38000-100RB#0



00:00:13 29.04.2023

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



00:00:53 29.04.2023



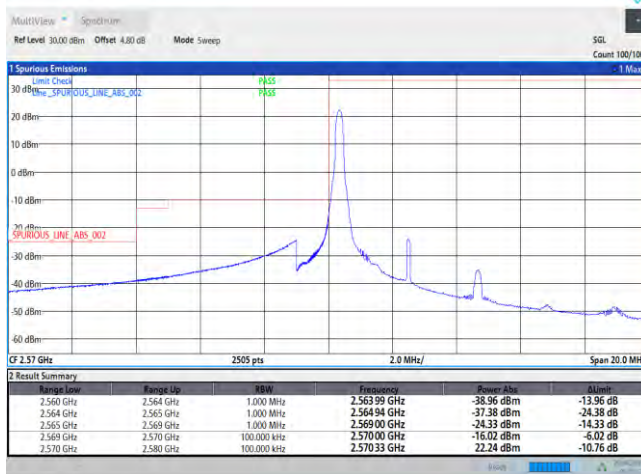
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Band Edge

Test Graphs

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



00:03:56 29.04.2023

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



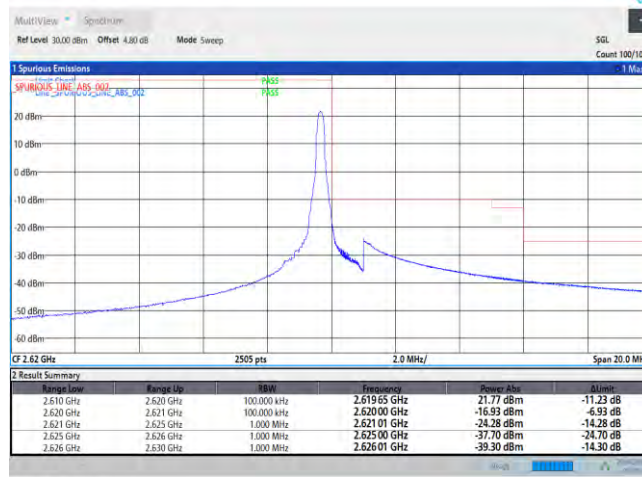
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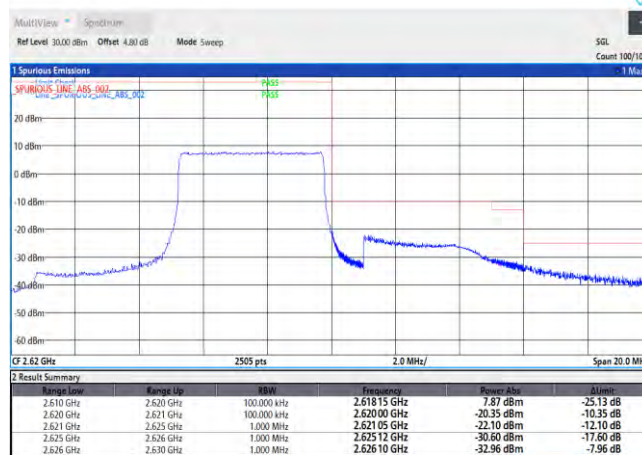
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Band38-5MHz-QPSK-38225-1RB#24



00:09:45 29.04.2023

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



00:12:30 29.04.2023



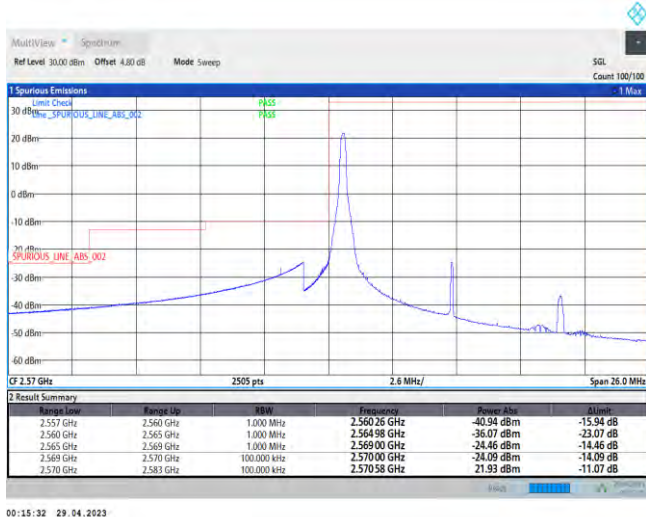
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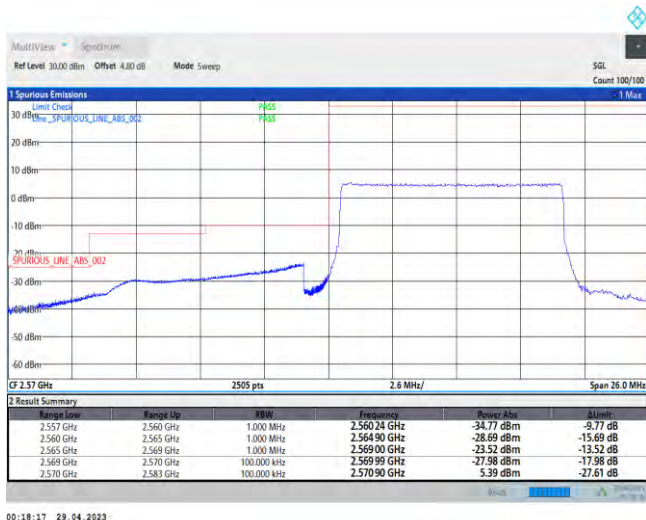
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Band38-10MHz-QPSK-37800-1RB#0



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

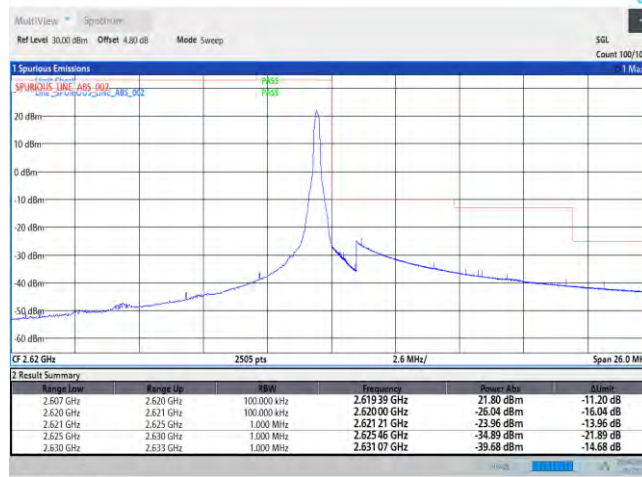


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Band38-10MHz-QPSK-38200-1RB#49



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



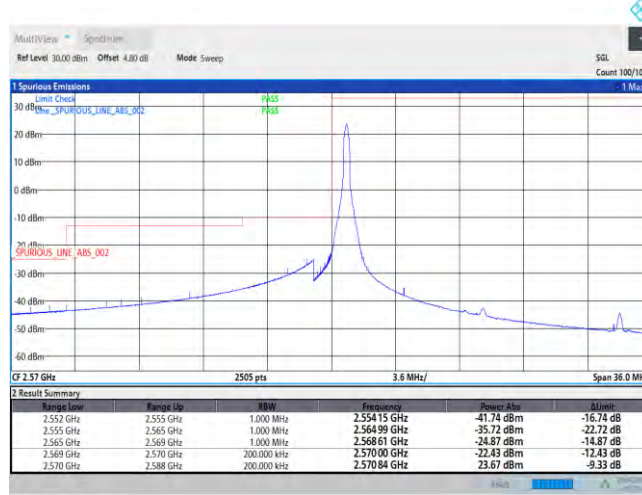
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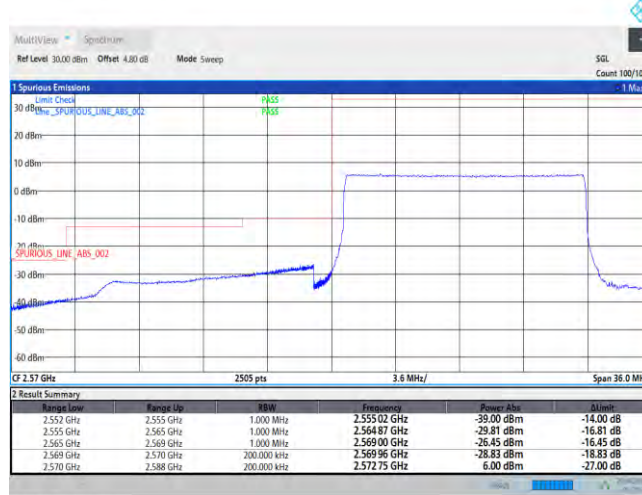
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Band38-15MHz-QPSK-37825-1RB#0



00:27:09 29.04.2023

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



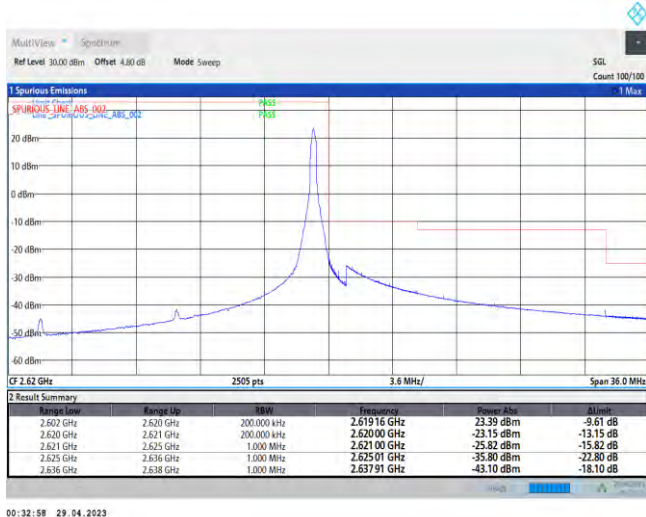
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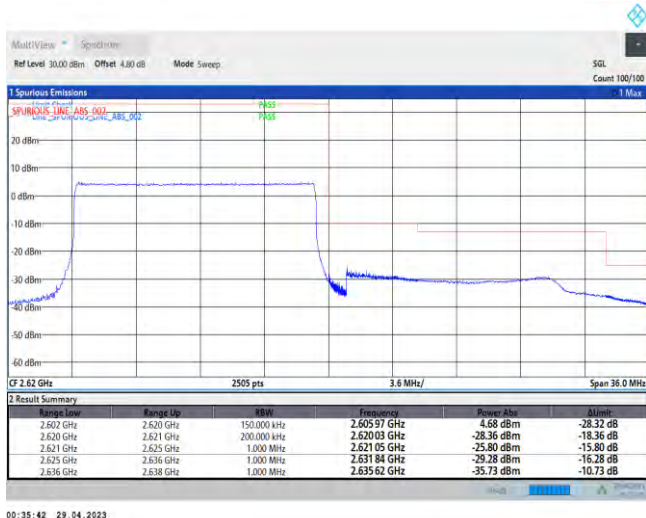
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Band38-15MHz-QPSK-38175-1RB#74



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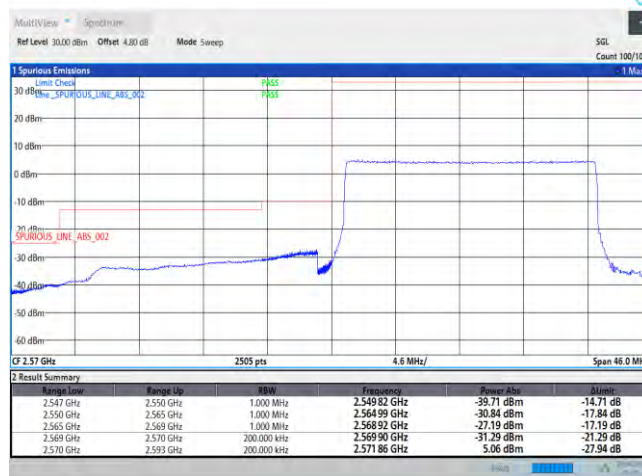
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Band38-20MHz-QPSK-37850-1RB#0



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



00:41:31 29.04.2023

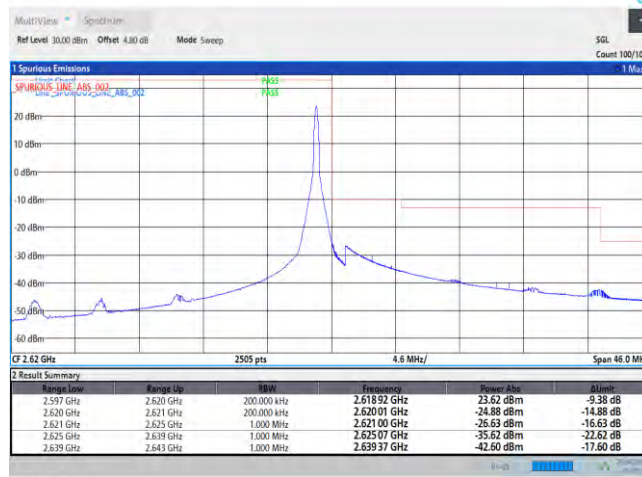


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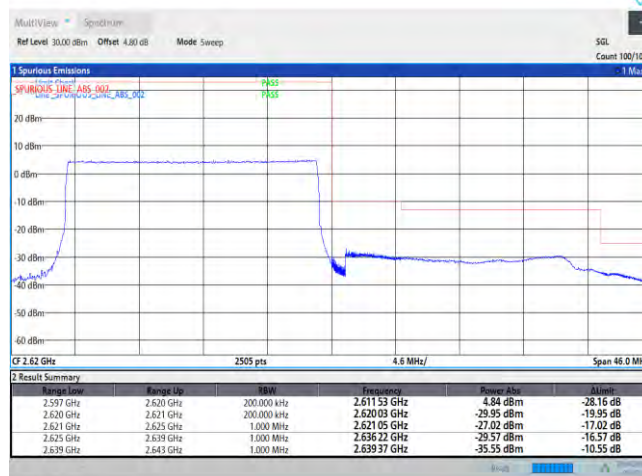
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Band38-20MHz-QPSK-38150-1RB#99



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



00:47:20 29.04.2023



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Conducted Spurious Emission

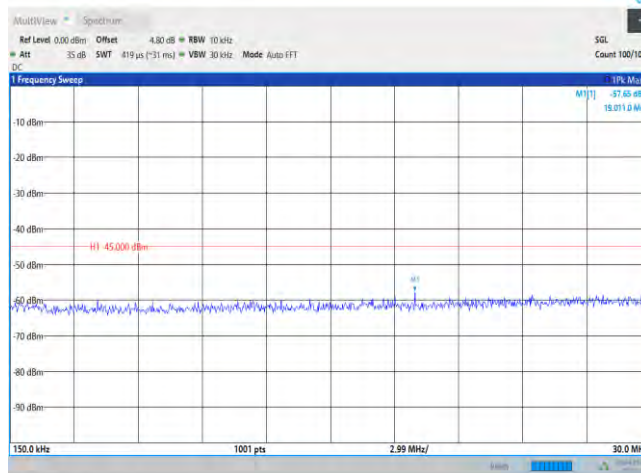
Test Graphs

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



18:35:07 30.04.2023

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



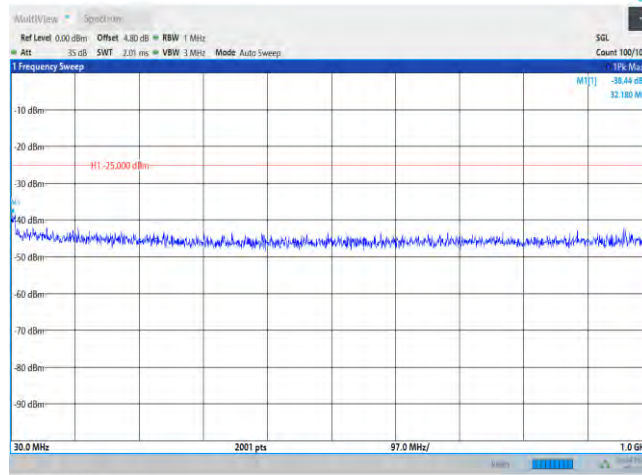
18:35:13 30.04.2023



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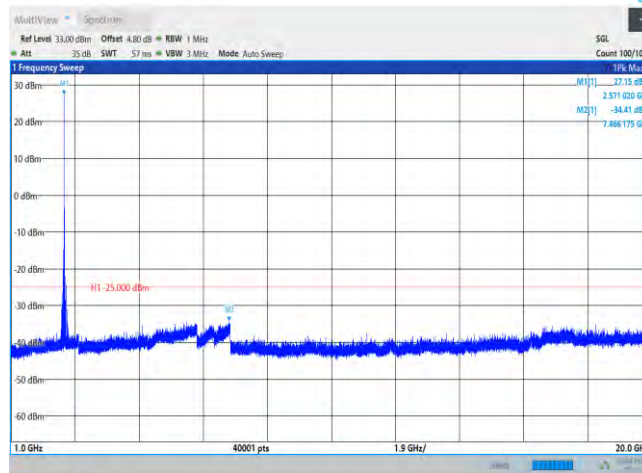
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



18:35:17 30.04.2023

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



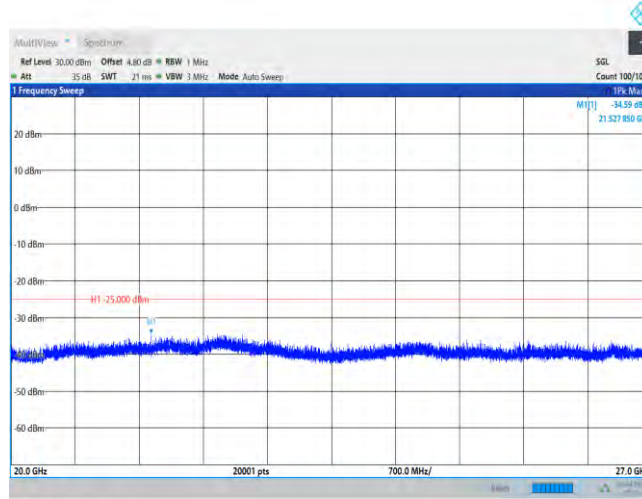
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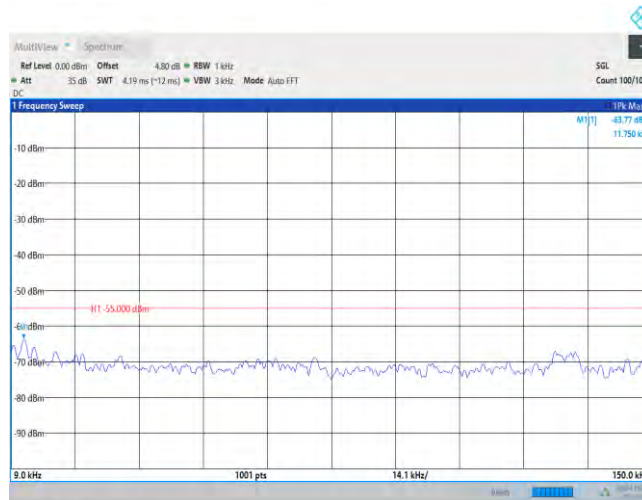
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



18:35:47 30.04.2023

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



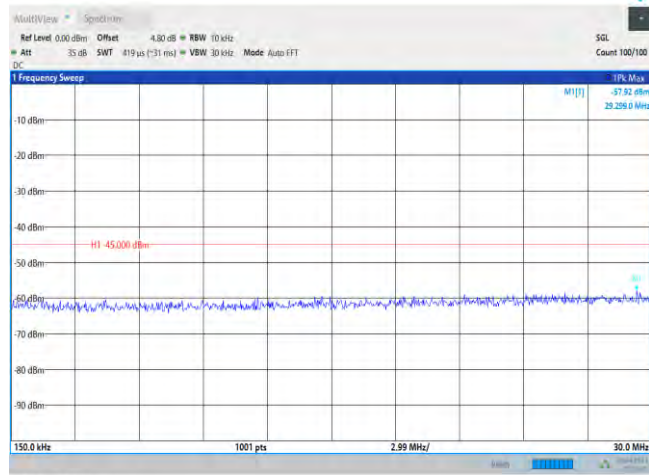
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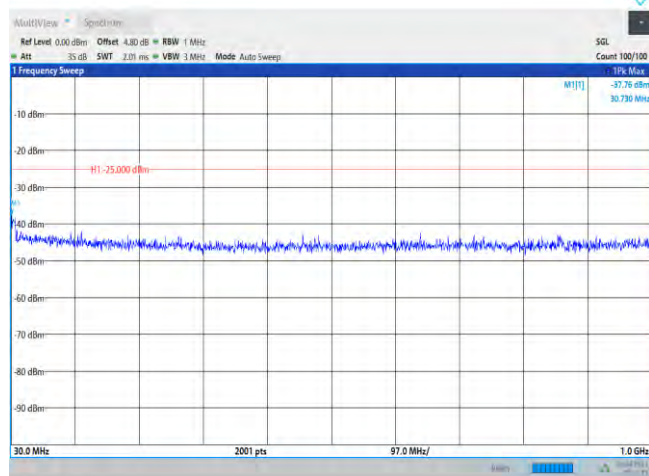
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



18:36:07 30.04.2023

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



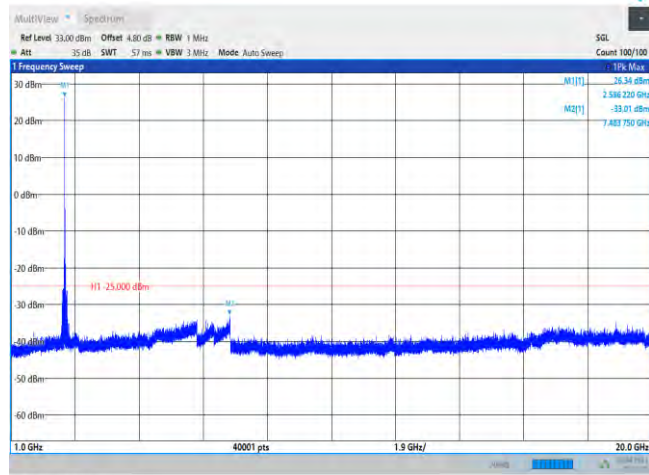
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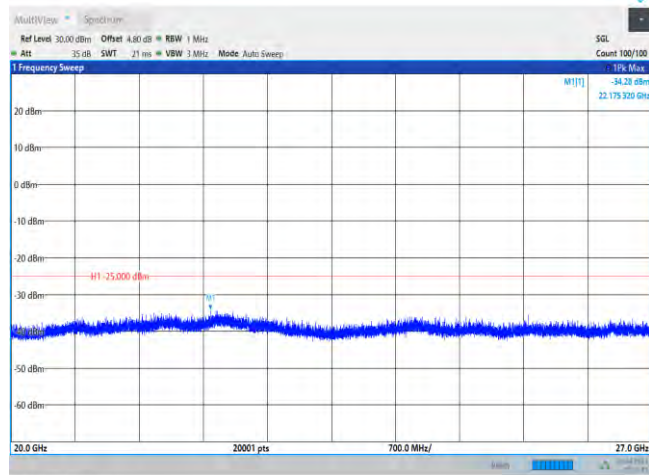
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



18:36:27 30.04.2023

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



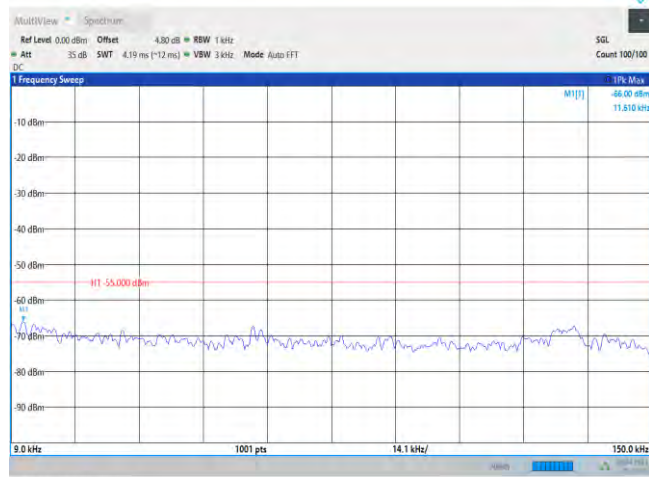
18:36:41 30.04.2023



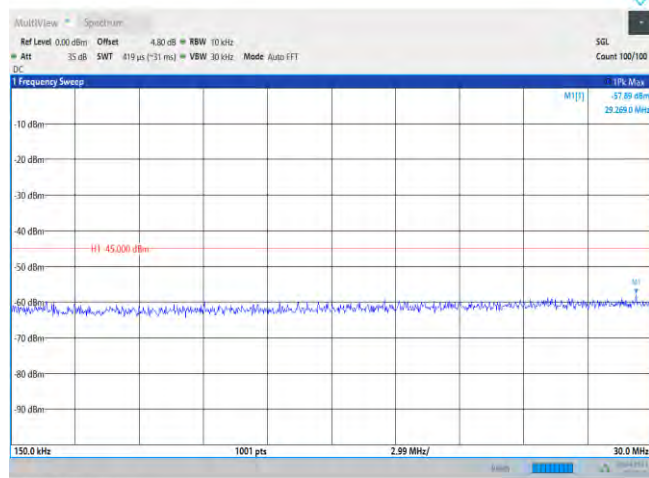
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



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

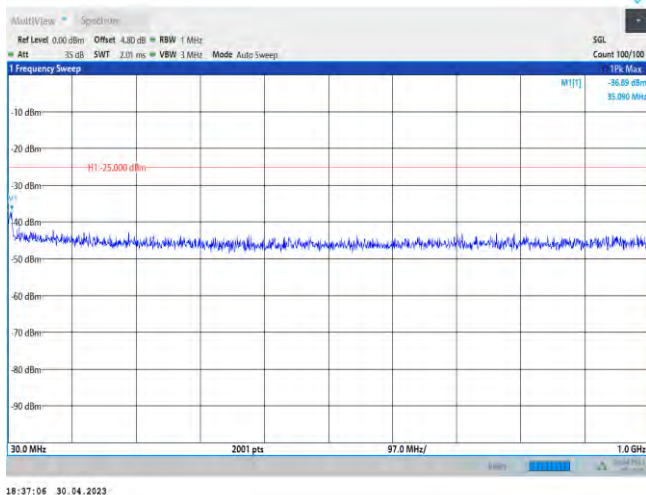


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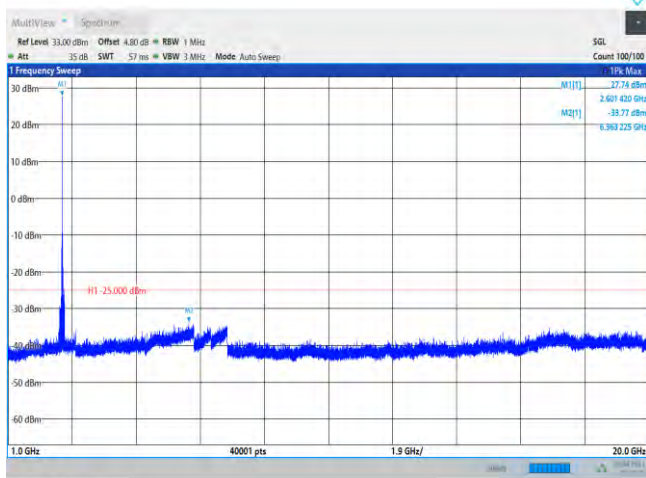
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



18:37:06 30.04.2023

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



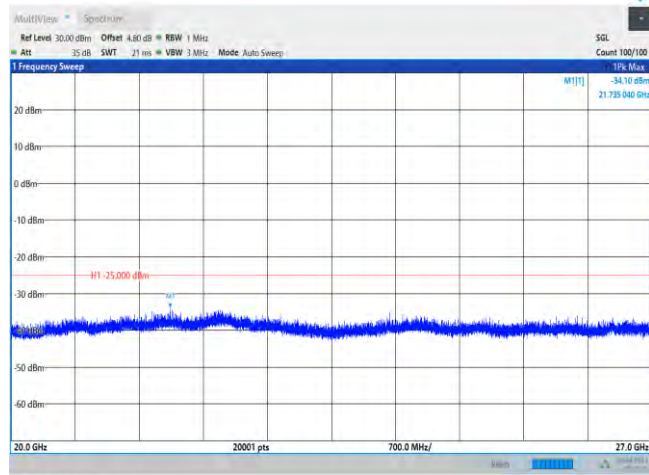
18:37:22 30.04.2023



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



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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	40.89	-45.33	32.96	-66.74	-25.00	41.74	155	317	Horizontal
2	7713.2700	39.25	-43.01	36.61	-62.41	-25.00	37.41	148	242	Horizontal
3	10284.3600	33.98	-39.15	38.83	-61.60	-25.00	36.60	186	105	Horizontal
4	12855.4500	30.59	-36.99	39.69	-61.97	-25.00	36.97	263	30	Horizontal
5	15426.5400	28.93	-33.99	38.67	-61.65	-25.00	36.65	256	0	Horizontal
6	17997.6300	31.72	-34.58	42.23	-55.88	-25.00	30.88	219	1	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	40.90	-45.33	32.96	-66.73	-25.00	41.73	125	59	Vertical
2	7713.2700	39.23	-43.01	36.61	-62.43	-25.00	37.43	148	76	Vertical
3	10284.3600	33.69	-39.15	38.83	-61.89	-25.00	36.89	155	106	Vertical
4	12855.4500	30.63	-36.99	39.69	-61.93	-25.00	36.93	180	301	Vertical
5	15426.5400	28.95	-33.99	38.67	-61.63	-25.00	36.63	136	0	Vertical
6	17997.6300	30.80	-34.58	42.23	-56.80	-25.00	31.80	259	30	Vertical



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Test Band = LTE Band38_20MHz _ TM1

Test Channel = Mid ANTO

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3503.25	44.24	-46.26	29.52	-67.75	-25.00	42.75	214	106	Horizontal
2	5172.1800	40.53	-45.30	32.98	-67.06	-25.00	42.06	158	226	Horizontal
3	7758.2700	39.42	-42.64	36.70	-61.78	-25.00	36.78	155	1	Horizontal
4	10344.3600	34.01	-39.05	38.85	-61.46	-25.00	36.46	139	138	Horizontal
5	12930.4500	30.02	-37.18	39.76	-62.66	-25.00	37.66	175	47	Horizontal
6	15516.5400	27.52	-35.30	38.55	-64.49	-25.00	39.49	109	181	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3664.5	42.79	-45.72	29.84	-68.35	-25.00	43.35	142	270	Vertical
2	5172.1800	41.08	-45.30	32.98	-66.51	-25.00	41.51	126	347	Vertical
3	7758.2700	39.66	-42.64	36.70	-61.54	-25.00	36.54	136	0	Vertical
4	10344.3600	33.59	-39.05	38.85	-61.88	-25.00	36.88	259	17	Vertical
5	12930.4500	31.15	-37.18	39.76	-61.53	-25.00	36.53	198	1	Vertical
6	15516.5400	27.68	-35.30	38.55	-64.33	-25.00	39.33	175	357	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	3801.75	42.91	-45.93	30.33	-67.94	-25.00	42.94	148	0	Horizontal
2	5202.1800	41.20	-45.27	32.99	-66.35	-25.00	41.35	152	226	Horizontal
3	7803.2700	38.50	-42.33	36.78	-62.30	-25.00	37.30	129	62	Horizontal
4	10404.3600	33.34	-39.00	38.86	-62.06	-25.00	37.06	184	0	Horizontal
5	13005.4500	30.15	-37.31	39.83	-62.59	-25.00	37.59	175	136	Horizontal
6	15606.5400	28.00	-34.87	38.43	-63.70	-25.00	38.70	156	62	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3773.25	42.82	-45.81	30.23	-68.01	-25.00	43.01	211	330	Vertical
2	5202.1800	41.42	-45.27	32.99	-66.13	-25.00	41.13	142	178	Vertical
3	7803.2700	38.57	-42.33	36.78	-62.23	-25.00	37.23	158	346	Vertical
4	10404.3600	33.13	-39.00	38.86	-62.27	-25.00	37.27	183	150	Vertical
5	13005.4500	29.42	-37.31	39.83	-63.32	-25.00	38.32	261	44	Vertical
6	15606.5400	28.36	-34.87	38.43	-63.34	-25.00	38.34	177	287	Vertical



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Test Band = LTE Band38_20MHz _ TM1

Test Channel = Low ANT4

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	40.47	-45.33	32.96	-67.16	-25.00	42.16	211	270	Horizontal
2	7713.2700	38.94	-43.01	36.61	-62.72	-25.00	37.72	158	346	Horizontal
3	10284.3600	33.46	-39.15	38.83	-62.12	-25.00	37.12	148	225	Horizontal
4	12855.4500	30.23	-36.99	39.69	-62.33	-25.00	37.33	175	75	Horizontal
5	15426.5400	28.34	-33.99	38.67	-62.24	-25.00	37.24	136	15	Horizontal
6	17997.6300	31.82	-34.58	42.23	-55.78	-25.00	30.78	166	120	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	40.12	-45.33	32.96	-67.51	-25.00	42.51	211	0	Vertical
2	7713.2700	39.13	-43.01	36.61	-62.53	-25.00	37.53	142	7	Vertical
3	10284.3600	34.08	-39.15	38.83	-61.50	-25.00	36.50	158	210	Vertical
4	12855.4500	30.55	-36.99	39.69	-62.01	-25.00	37.01	189	196	Vertical
5	15426.5400	28.08	-33.99	38.67	-62.50	-25.00	37.50	192	120	Vertical
6	17997.6300	31.97	-34.58	42.23	-55.63	-25.00	30.63	175	105	Vertical



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Test Band = LTE Band38_20MHz_TM1

Test Channel = Mid ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3624.75	42.91	-45.97	29.70	-68.62	-25.00	43.62	144	104	Horizontal
2	5172.1800	41.12	-45.30	32.98	-66.47	-25.00	41.47	211	73	Horizontal
3	7758.2700	38.72	-42.64	36.70	-62.48	-25.00	37.48	185	225	Horizontal
4	10344.3600	34.11	-39.05	38.85	-61.36	-25.00	36.36	136	30	Horizontal
5	12930.4500	30.09	-37.18	39.76	-62.59	-25.00	37.59	251	346	Horizontal
6	15516.5400	27.13	-35.30	38.55	-64.88	-25.00	39.88	169	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3811.5	42.94	-45.96	30.36	-67.92	-25.00	42.92	214	44	Vertical
2	5172.1800	41.50	-45.30	32.98	-66.09	-25.00	41.09	175	28	Vertical
3	7758.2700	38.94	-42.64	36.70	-62.26	-25.00	37.26	142	211	Vertical
4	10344.3600	33.70	-39.05	38.85	-61.77	-25.00	36.77	169	103	Vertical
5	12930.4500	30.23	-37.18	39.76	-62.45	-25.00	37.45	182	16	Vertical
6	15516.5400	27.14	-35.30	38.55	-64.87	-25.00	39.87	190	331	Vertical



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Test Band = LTE Band38_20MHz_TM1

Test Channel = High ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4019.25	42.92	-45.99	30.83	-67.50	-25.00	42.50	211	166	Horizontal
2	5202.1800	40.90	-45.27	32.99	-66.65	-25.00	41.65	154	331	Horizontal
3	7803.2700	38.66	-42.33	36.78	-62.14	-25.00	37.14	175	258	Horizontal
4	10404.3600	33.03	-39.00	38.86	-62.37	-25.00	37.37	142	301	Horizontal
5	13005.4500	29.78	-37.31	39.83	-62.96	-25.00	37.96	166	331	Horizontal
6	15606.5400	27.52	-34.87	38.43	-64.18	-25.00	39.18	298	242	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3697.5	42.37	-45.52	29.96	-68.44	-25.00	43.44	211	44	Vertical
2	5202.1800	40.96	-45.27	32.99	-66.59	-25.00	41.59	145	150	Vertical
3	7803.2700	37.93	-42.33	36.78	-62.87	-25.00	37.87	155	287	Vertical
4	10404.3600	33.47	-39.00	38.86	-61.93	-25.00	36.93	180	211	Vertical
5	13005.4500	29.43	-37.31	39.83	-63.31	-25.00	38.31	126	76	Vertical
6	15606.5400	27.21	-34.87	38.43	-64.49	-25.00	39.49	136	287	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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Test on the worst case:

Test Band = LTE Band38_20MHz _ TM1

Test Channel = Low

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	40.15	-45.33	32.96	-67.48	-25.00	42.48	214	30	Horizontal
2	7713.2700	38.73	-43.01	36.61	-62.93	-25.00	37.93	186	225	Horizontal
3	10284.3600	31.71	-39.15	38.83	-63.87	-25.00	38.87	136	195	Horizontal
4	12855.4500	28.36	-36.99	39.69	-64.20	-25.00	39.20	259	0	Horizontal
5	15426.5400	26.07	-33.99	38.67	-64.51	-25.00	39.51	192	181	Horizontal
6	17997.6300	29.63	-34.58	42.23	-57.97	-25.00	32.97	175	90	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	40.49	-45.33	32.96	-67.14	-25.00	42.14	285	343	Vertical
2	7713.2700	38.83	-43.01	36.61	-62.83	-25.00	37.83	144	196	Vertical
3	10284.3600	31.64	-39.15	38.83	-63.94	-25.00	38.94	126	301	Vertical
4	12855.4500	28.42	-36.99	39.69	-64.14	-25.00	39.14	133	181	Vertical
5	15426.5400	26.04	-33.99	38.67	-64.54	-25.00	39.54	210	360	Vertical
6	17997.6300	30.07	-34.58	42.23	-57.53	-25.00	32.53	168	270	Vertical



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Test Band = LTE Band38_20MHz _ TM1

Test Channel = Mid

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4276.5	42.68	-45.59	31.26	-66.92	-25.00	41.92	185	0	Horizontal
2	5172.1800	40.55	-45.30	32.98	-67.04	-25.00	42.04	122	0	Horizontal
3	7758.2700	38.35	-42.64	36.70	-62.85	-25.00	37.85	199	270	Horizontal
4	10344.3600	31.36	-39.05	38.85	-64.11	-25.00	39.11	165	103	Horizontal
5	12930.4500	27.24	-37.18	39.76	-65.44	-25.00	40.44	148	0	Horizontal
6	15516.5400	25.66	-35.30	38.55	-66.35	-25.00	41.35	175	330	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4062	43.04	-45.87	30.89	-67.19	-25.00	42.19	258	351	Vertical
2	5172.1800	40.88	-45.30	32.98	-66.71	-25.00	41.71	147	232	Vertical
3	7758.2700	38.91	-42.64	36.70	-62.29	-25.00	37.29	186	310	Vertical
4	10344.3600	32.23	-39.05	38.85	-63.24	-25.00	38.24	192	277	Vertical
5	12930.4500	28.09	-37.18	39.76	-64.59	-25.00	39.59	153	277	Vertical
6	15516.5400	24.57	-35.30	38.55	-67.44	-25.00	42.44	261	105	Vertical



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Test Band = LTE Band38_20MHz_TM1

Test Channel = High

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4555.5	42.42	-45.69	31.67	-66.86	-25.00	41.86	248	8	Horizontal
2	5202.1800	40.51	-45.27	32.99	-67.04	-25.00	42.04	122	316	Horizontal
3	7803.2700	37.82	-42.33	36.78	-62.98	-25.00	37.98	126	76	Horizontal
4	10404.3600	31.42	-39.00	38.86	-63.98	-25.00	38.98	259	196	Horizontal
5	13005.4500	27.07	-37.31	39.83	-65.67	-25.00	40.67	192	151	Horizontal
6	15606.5400	24.64	-34.87	38.43	-67.06	-25.00	42.06	154	76	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.75	42.42	-45.62	30.08	-68.39	-25.00	43.39	126	3	Vertical
2	5202.1800	40.99	-45.27	32.99	-66.56	-25.00	41.56	145	269	Vertical
3	7803.2700	38.44	-42.33	36.78	-62.36	-25.00	37.36	136	57	Vertical
4	10404.3600	31.12	-39.00	38.86	-64.28	-25.00	39.28	259	240	Vertical
5	13005.4500	26.83	-37.31	39.83	-65.91	-25.00	40.91	199	300	Vertical
6	15606.5400	25.76	-34.87	38.43	-65.94	-25.00	40.94	175	212	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	0.30	0.000116	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-0.60	-0.000231	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	0.40	0.000154	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-0.40	-0.000154	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-0.10	-0.000039	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-1.00	-0.000385	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-0.60	-0.000231	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-0.70	-0.000270	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	0.80	0.000308	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-1.50	-0.000578	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-1.40	-0.000539	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	0.70	0.000270	PASS

---End of Attachment---



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