

Report No.: SEWM2305000160RG01

Rev.: 01

Page: 1 of 58

# Appendix B.13

## LTE Band 41



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.51	24.21	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.44	24.14	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.52	24.22	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.05	22.75	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.97	24.67	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.81	24.51	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.61	24.31	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.99	23.69	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.68	24.38	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.58	24.28	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.66	24.36	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.76	23.46	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.70	23.40	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.37	23.07	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.42	23.12	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.63	22.33	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.52	23.22	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.13	23.83	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.12	23.82	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.82	22.52	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.28	22.98	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.68	23.38	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.73	23.43	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.59	22.29	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	21.06	21.76	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#12	21.33	22.03	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#24	21.52	22.22	33.00	PASS



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Band41	5MHz	64QAM	39675	25RB#0	20.28	20.98	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	21.91	22.61	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	21.77	22.47	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.98	22.68	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	21.01	21.71	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.31	22.01	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.57	22.27	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.57	22.27	33.00	PASS
Band41	5MHz	64QAM	41565	25RB#0	20.42	21.12	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.34	24.04	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.71	24.41	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.65	24.35	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.30	23.00	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.94	24.64	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	24.04	24.74	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.82	24.52	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.92	23.62	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.32	24.02	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.57	24.27	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.62	24.32	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.53	23.23	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.36	23.06	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.42	23.12	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.41	23.11	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.40	22.10	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.84	23.54	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.15	23.85	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	23.07	23.77	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.39	22.09	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.49	23.19	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.65	23.35	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.48	23.18	33.00	PASS



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Band41	10MHz	16QAM	41540	50RB#0	21.68	22.38	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	21.33	22.03	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	21.34	22.04	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	21.57	22.27	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	20.64	21.34	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	22.01	22.71	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	22.18	22.88	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.57	22.27	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	20.92	21.62	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	21.32	22.02	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.79	22.49	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	21.68	22.38	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	20.56	21.26	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.10	23.80	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.08	23.78	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.23	23.93	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.43	23.13	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.73	24.43	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.42	24.12	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.62	24.32	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.52	23.22	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.37	24.07	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.55	24.25	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.09	23.79	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.33	23.03	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.04	22.74	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.28	22.98	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.46	23.16	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.36	22.06	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.54	23.24	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.90	23.60	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.00	23.70	33.00	PASS



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Band41	15MHz	16QAM	40620	75RB#0	21.57	22.27	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.30	23.00	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.15	22.85	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.34	23.04	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.18	21.88	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	21.33	22.03	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	21.39	22.09	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	21.08	21.78	33.00	PASS
Band41	15MHz	64QAM	39725	75RB#0	20.54	21.24	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.42	22.12	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.96	22.66	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	21.61	22.31	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	20.53	21.23	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	21.49	22.19	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	21.26	21.96	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	21.42	22.12	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	20.52	21.22	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.21	23.91	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.07	23.77	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.54	24.24	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.34	23.04	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.71	24.41	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.67	24.37	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.74	24.44	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.83	23.53	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.34	24.04	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.02	23.72	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.21	23.91	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.45	23.15	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.04	22.74	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.34	23.04	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.56	23.26	33.00	PASS



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Report No.: SEWM2305000160RG01

Rev.: 01

Page: 6 of 58

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Band41	20MHz	16QAM	40620	1RB#0	22.65	23.35	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.78	23.48	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.54	23.24	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.67	22.37	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.41	23.11	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.31	23.01	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.25	22.95	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.47	22.17	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	21.18	21.88	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	21.43	22.13	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	21.60	22.30	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	20.47	21.17	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	21.39	22.09	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.69	22.39	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.77	22.47	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	20.64	21.34	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	21.25	21.95	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#49	21.18	21.88	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#99	21.48	22.18	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	20.56	21.26	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.42	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.54	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.62	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.28	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.20	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.28	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.56	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.54	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.58	13	PASS



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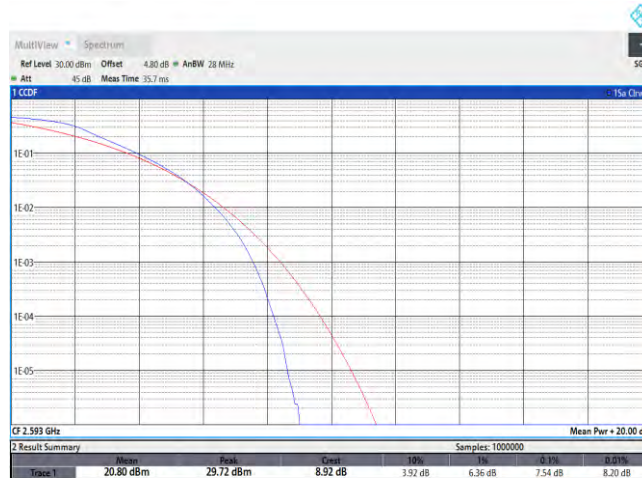
Test Graphs

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



19:01:00 29.04.2023

Band41-20MHz-QPSK-40620-100RB#0



19:01:50 29.04.2023



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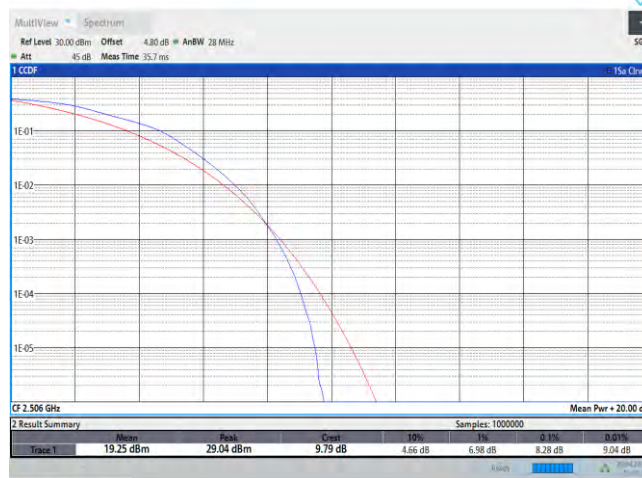


Band41-20MHz-QPSK-41490-100RB#0



19:02:40 29.04.2023

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



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



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



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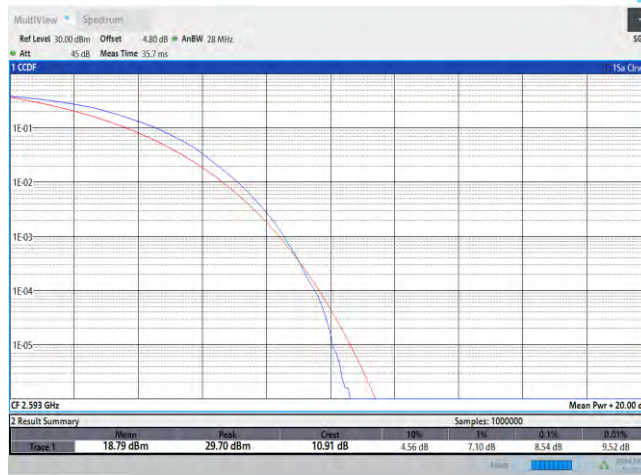
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Band41-20MHz-64QAM-39750-100RB#0



19:01:34 29.04.2023

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



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS



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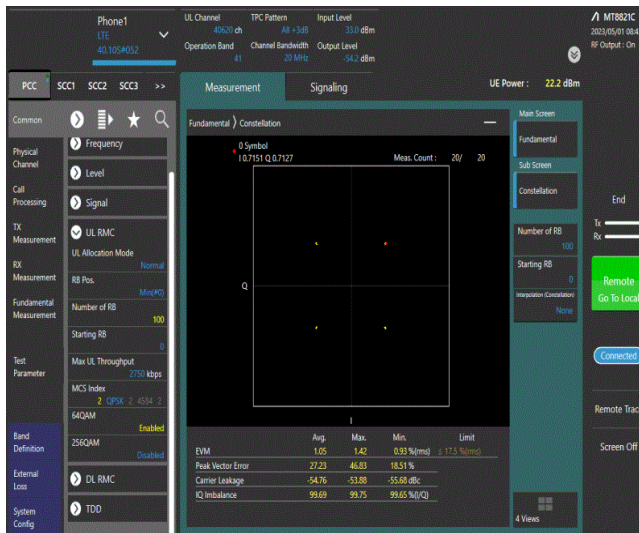
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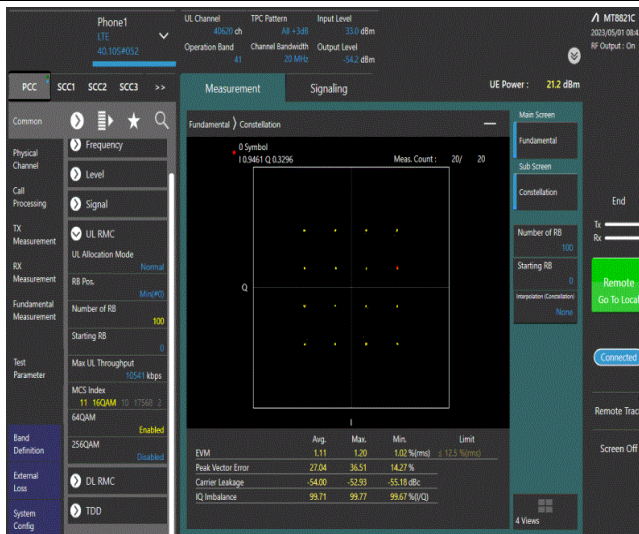
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Test Graphs

Band41-20MHz-QPSK-40620-100RB#0



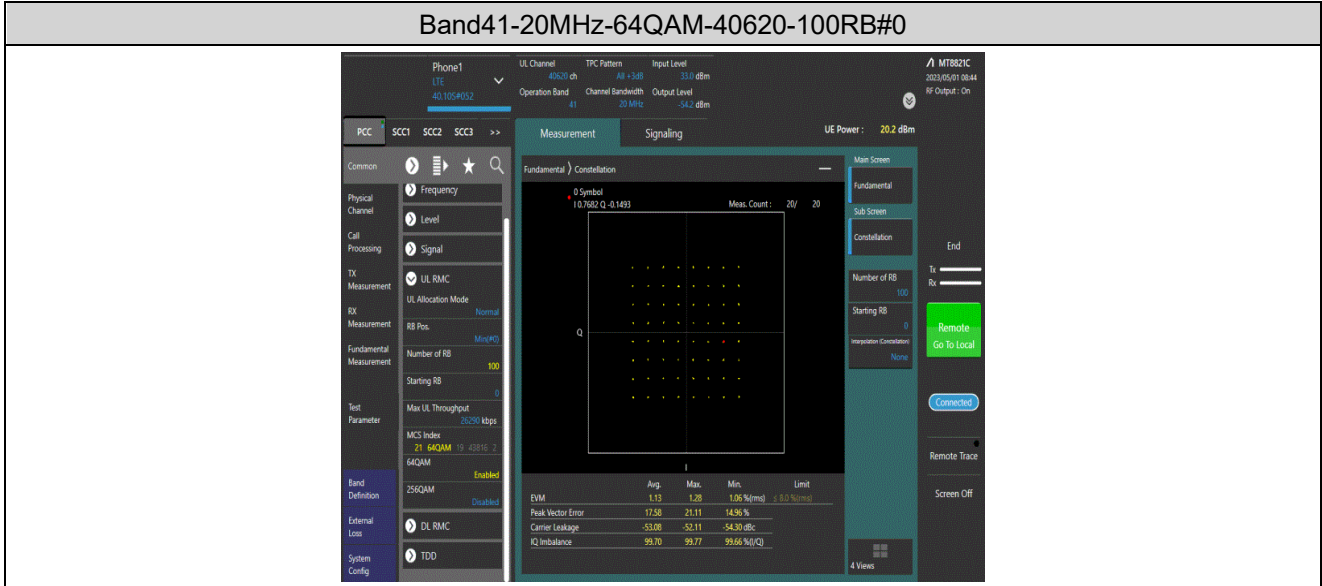
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.475	4.83	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.470	4.96	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.466	4.80	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.472	4.82	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.464	4.90	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.484	4.97	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.484	4.92	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.466	4.94	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.480	4.88	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.980	9.90	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.942	9.62	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.943	9.62	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.946	9.88	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.958	9.62	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.936	9.62	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.946	9.72	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.953	9.80	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.929	10.12	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.511	14.97	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.489	14.88	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.440	14.79	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.507	14.88	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.546	17.10	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.471	14.82	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.477	14.70	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.465	14.64	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.448	14.82	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.916	19.68	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.951	19.72	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.959	19.44	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.950	19.96	PASS



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Report No.: SEWM2305000160RG01

Rev.: 01

Page: 17 of 58

Band41	20MHz	16QAM	40620	100RB#0	17.836	19.40	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.968	19.04	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.885	19.56	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.913	19.60	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.861	19.32	PASS



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Test Graphs

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



01:55:16 29.04.2023

Band41-5MHz-QPSK-40620-25RB#0



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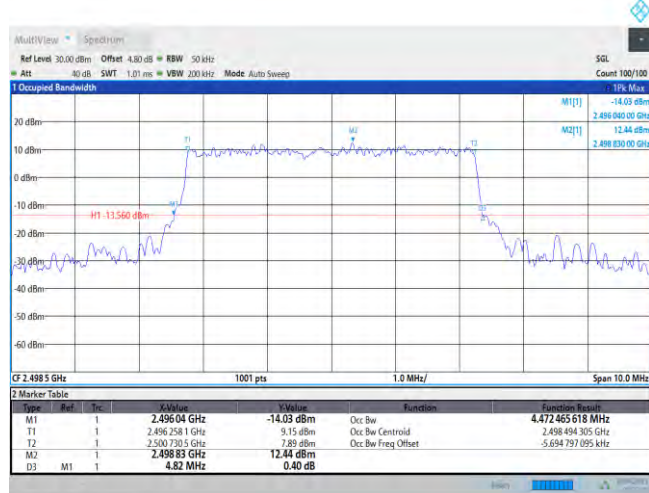
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Band41-5MHz-QPSK-41565-25RB#0



01:56:35 29.04.2023

Band41-5MHz-16QAM-39675-25RB#0



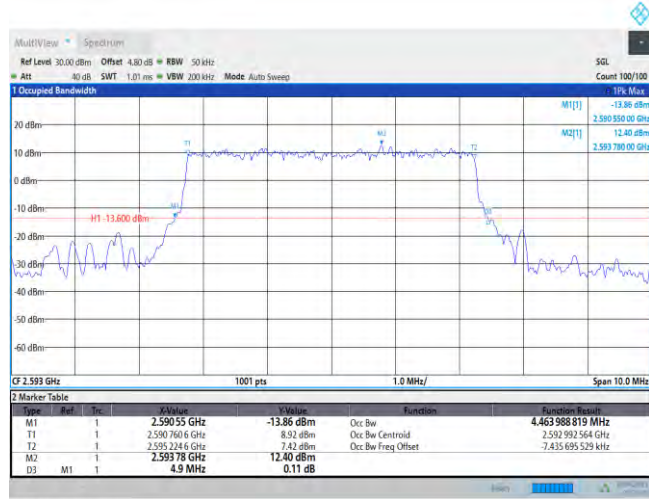
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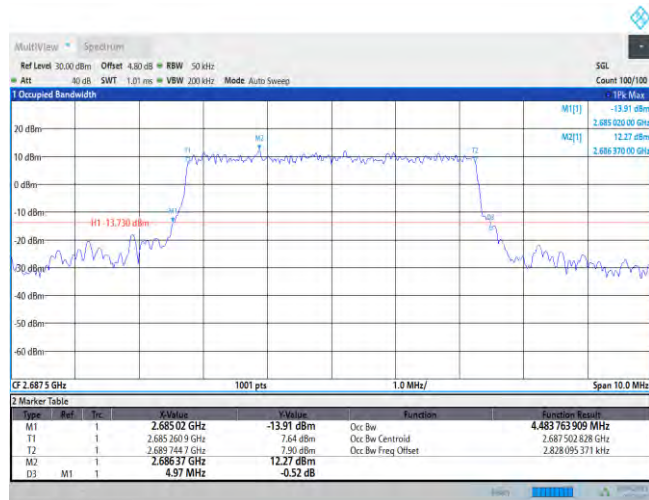
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Band41-5MHz-16QAM-40620-25RB#0



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Band41-5MHz-16QAM-41565-25RB#0



01:56:48 29.04.2023



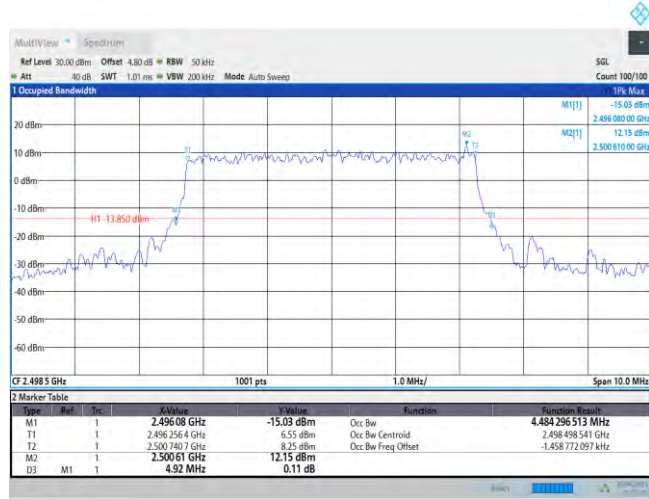
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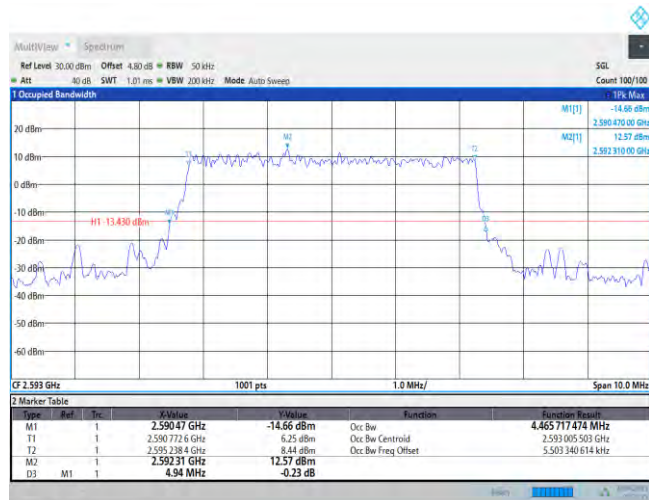


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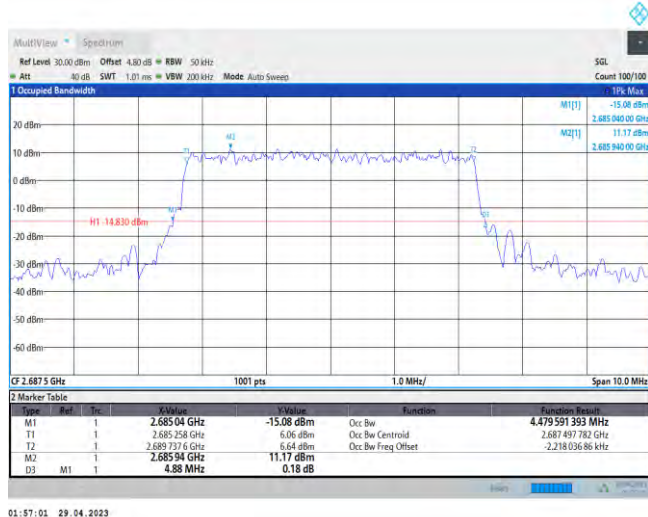
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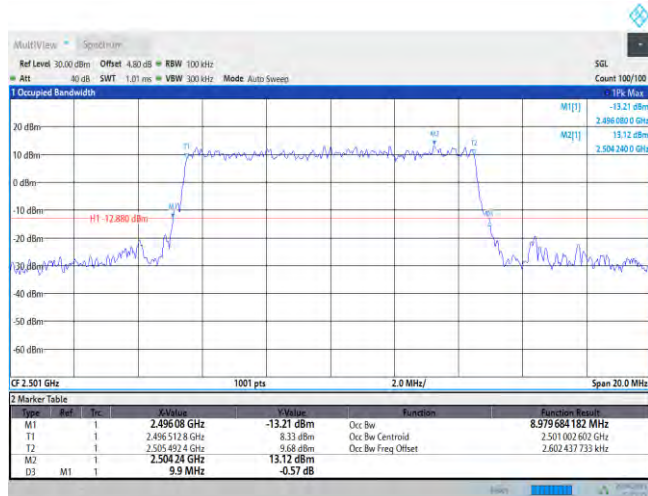
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Band41-5MHz-64QAM-41565-25RB#0



01:57:01 29.04.2023

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



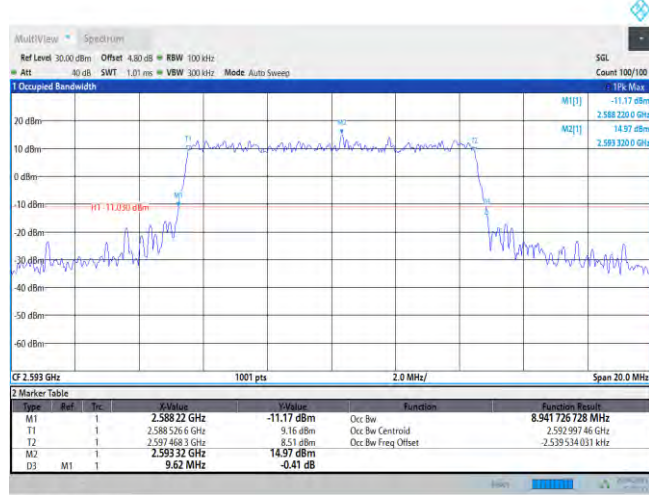
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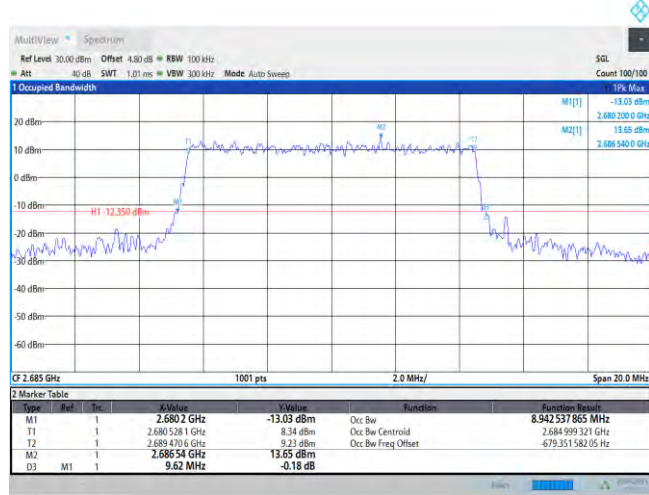
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Band41-10MHz-QPSK-40620-50RB#0



17:12:13 29.04.2023

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



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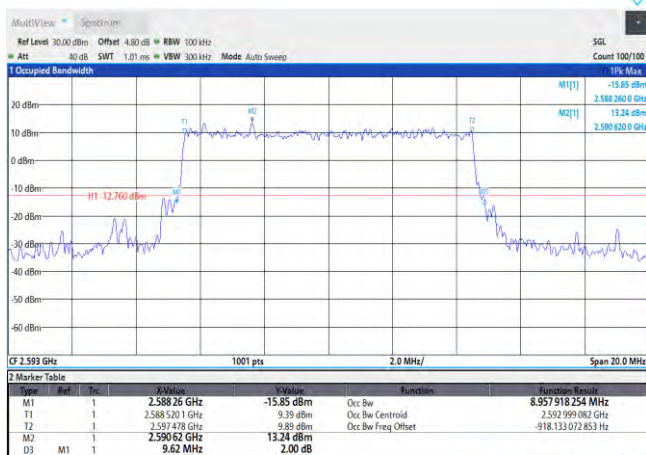


Band41-10MHz-16QAM-39700-50RB#0



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



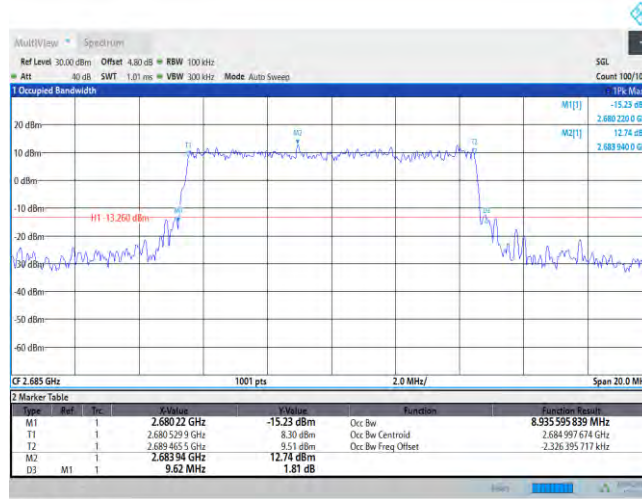
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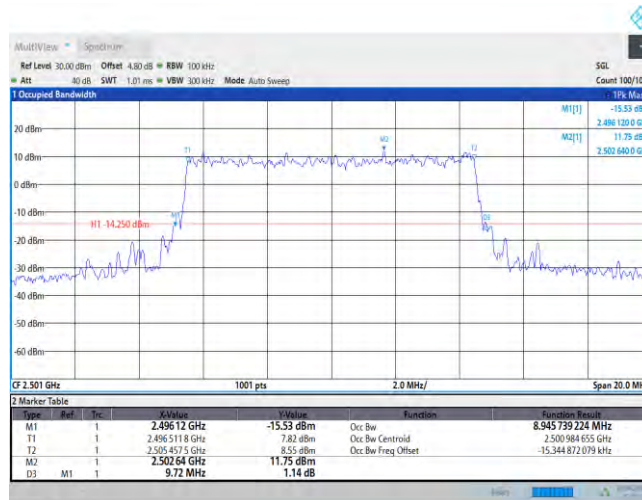
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Band41-10MHz-16QAM-41540-50RB#0



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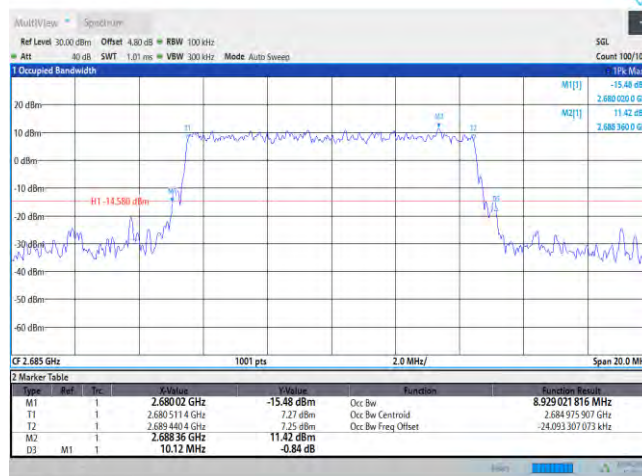
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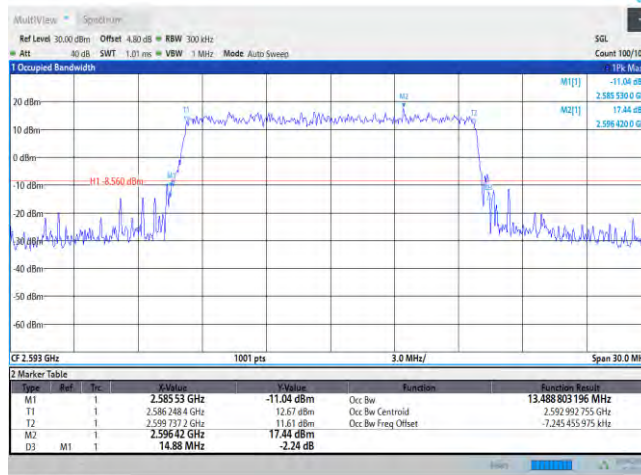


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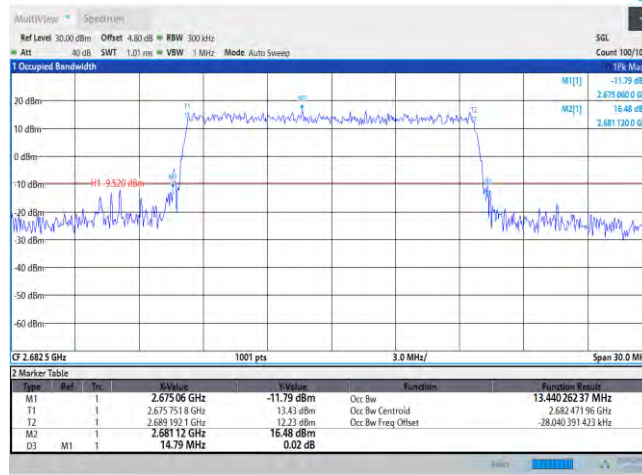


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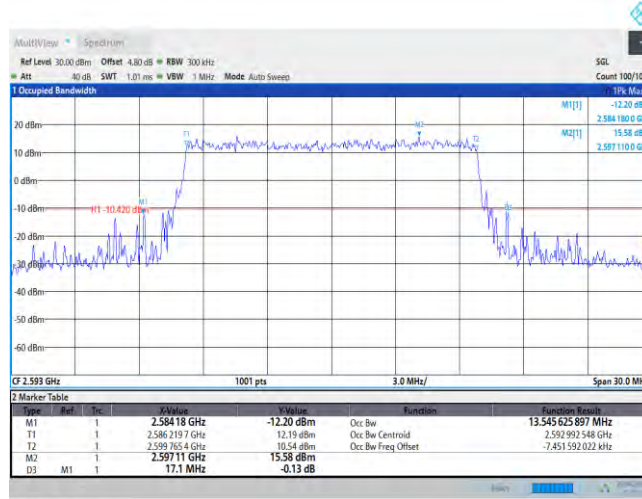
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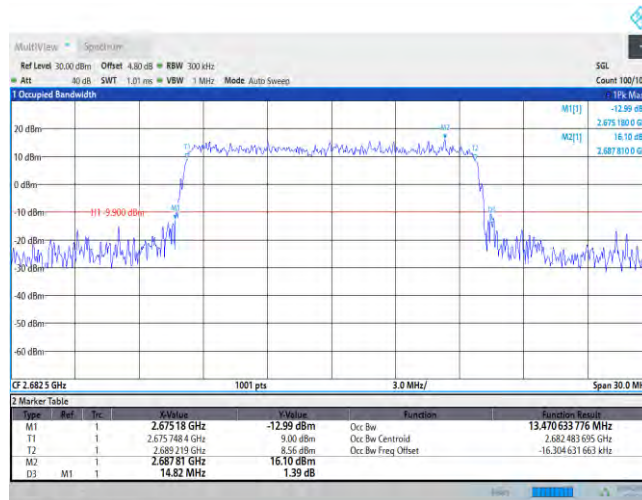
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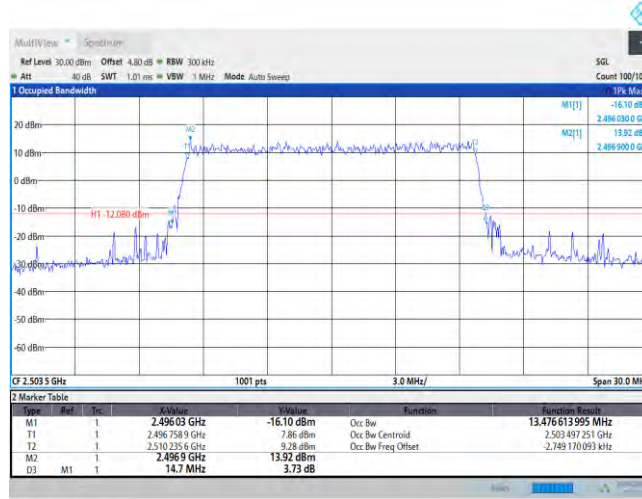


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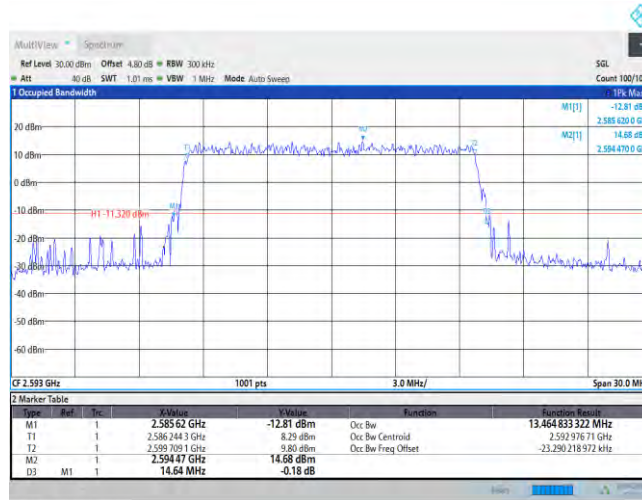


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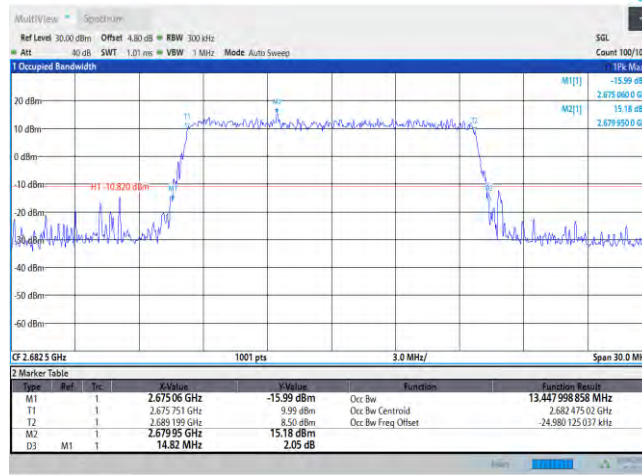
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Band41-15MHz-64QAM-41515-75RB#0



17:15:34 29.04.2023

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



17:16:06 29.04.2023

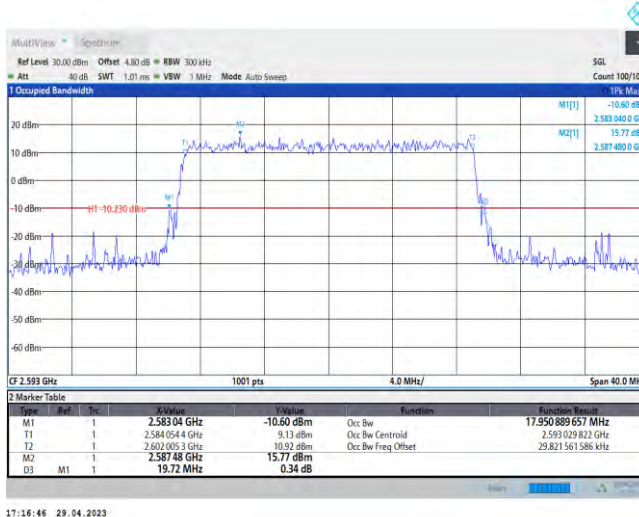


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Band41-20MHz-QPSK-40620-100RB#0



17:16:46 29.04.2023

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



17:17:27 29.04.2023

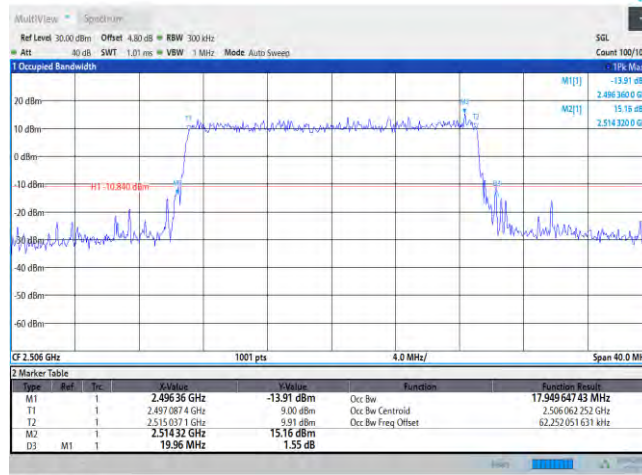


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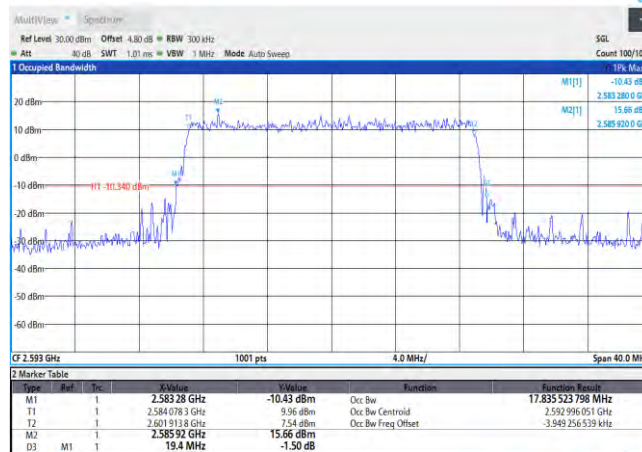


Band41-20MHz-16QAM-39750-100RB#0



17:16:19 29.04.2023

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



17:17:00 29.04.2023

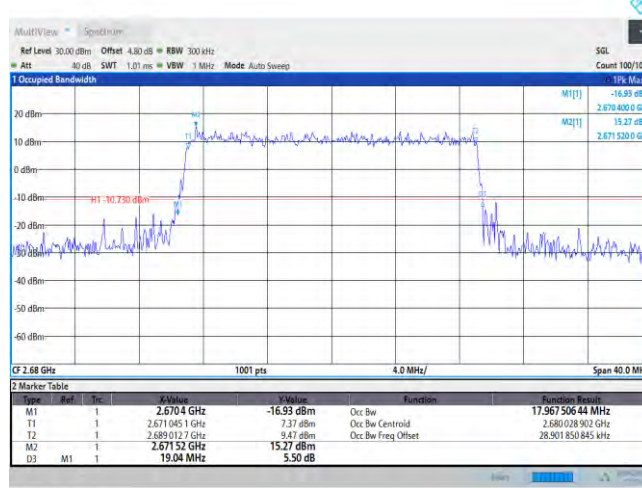


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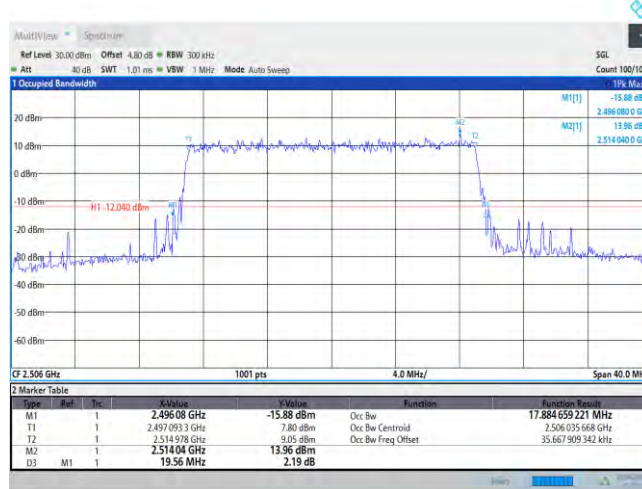
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Band41-20MHz-16QAM-41490-100RB#0



17:17:40 29.04.2023

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



17:16:33 29.04.2023



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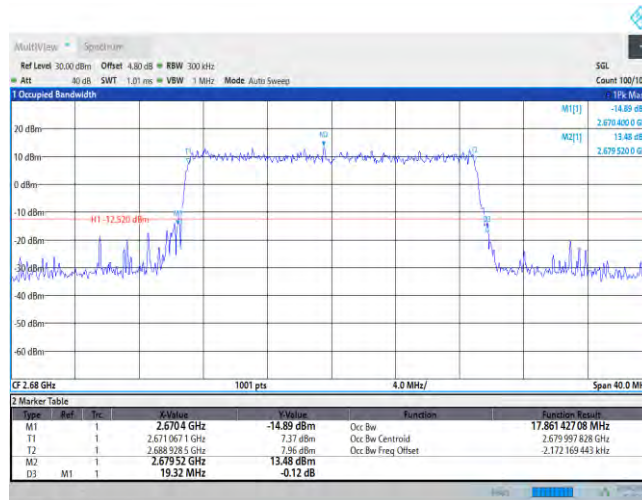
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Band41-20MHz-64QAM-40620-100RB#0



17:17:13 29.04.2023

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



17:17:54 29.04.2023



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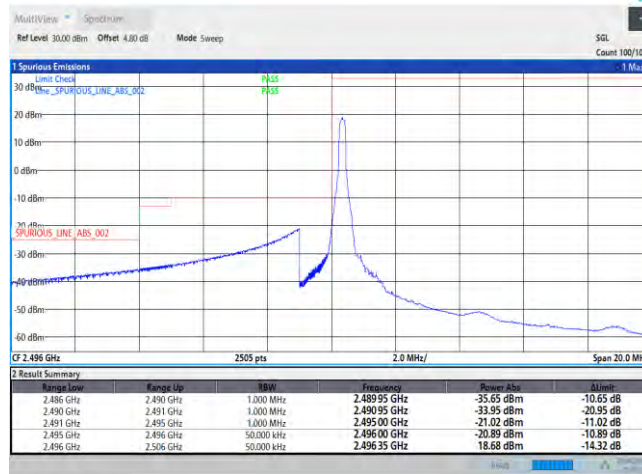
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## Band Edge

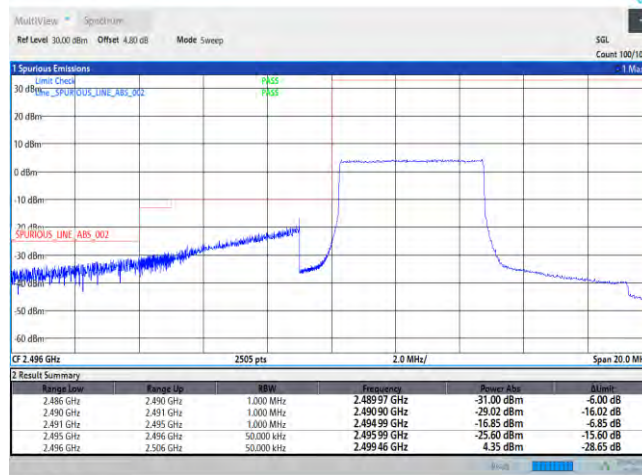
## Test Graphs

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



18:06:27 29.04.2023

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



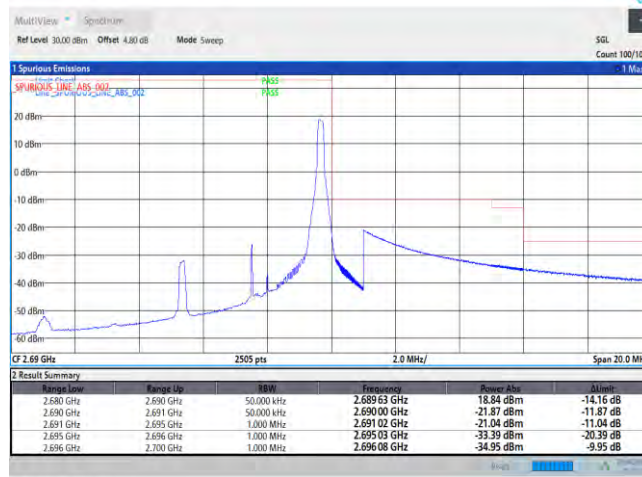
18:09:52 29.04.2023



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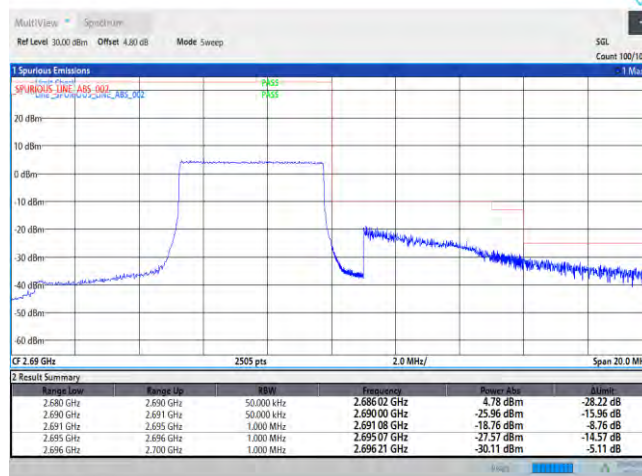
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Band41-5MHz-QPSK-41565-1RB#24



18:13:38 29.04.2023

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



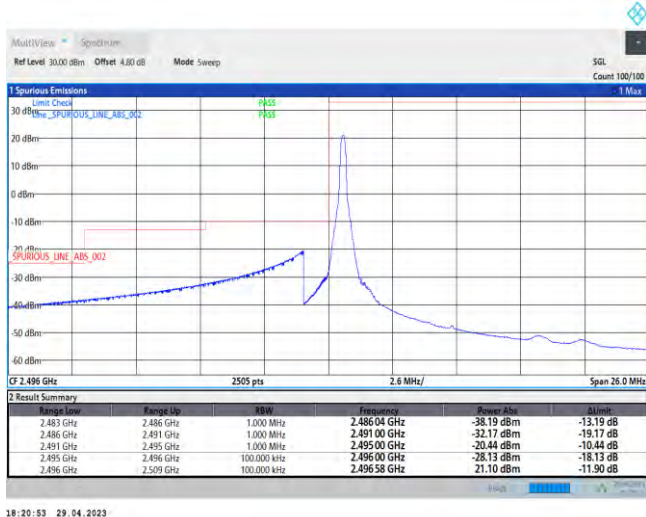
18:17:04 29.04.2023



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



18:20:53 29.04.2023

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



18:24:18 29.04.2023



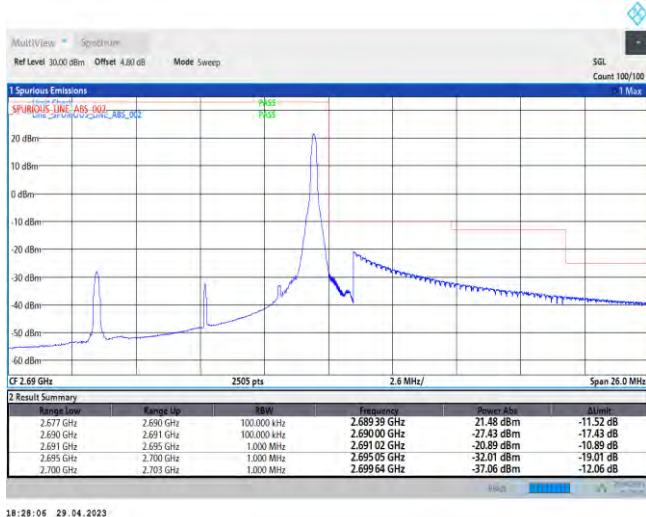
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Band41-10MHz-QPSK-41540-1RB#49



18:28:06 29.04.2023

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



14:27:42 29.05.2023

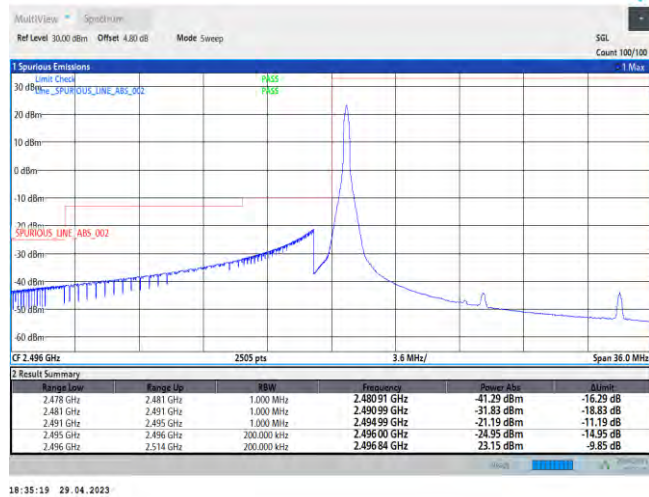


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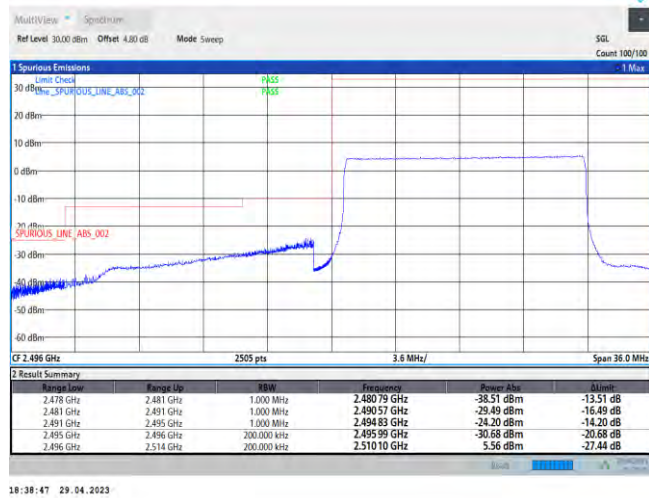
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Band41-15MHz-QPSK-39725-1RB#0



18:35:19 29. 04. 2023

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



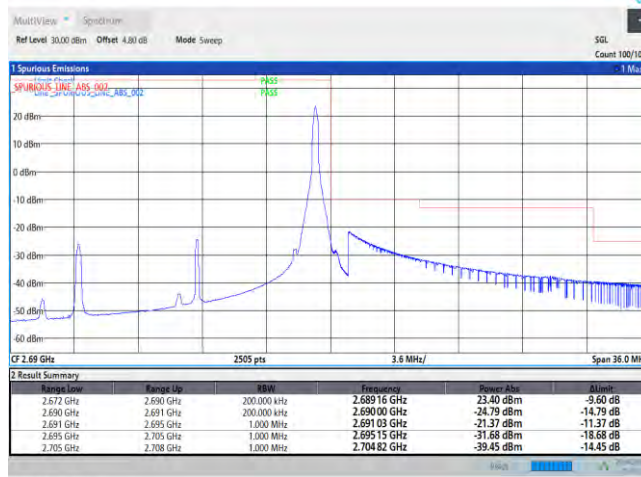
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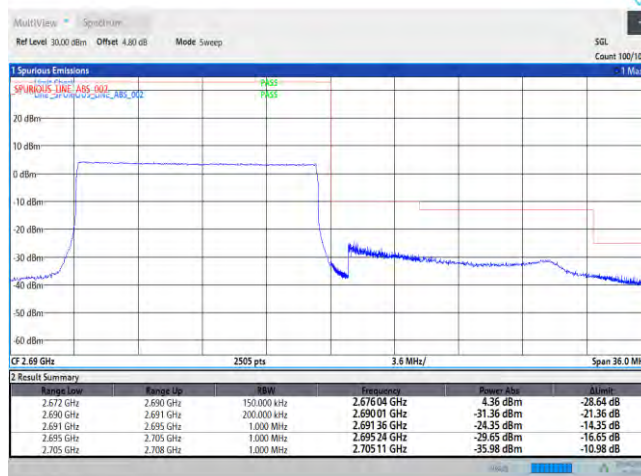
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Band41-15MHz-QPSK-41515-1RB#74



18:42:35 29.04.2023

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



18:46:05 29.04.2023

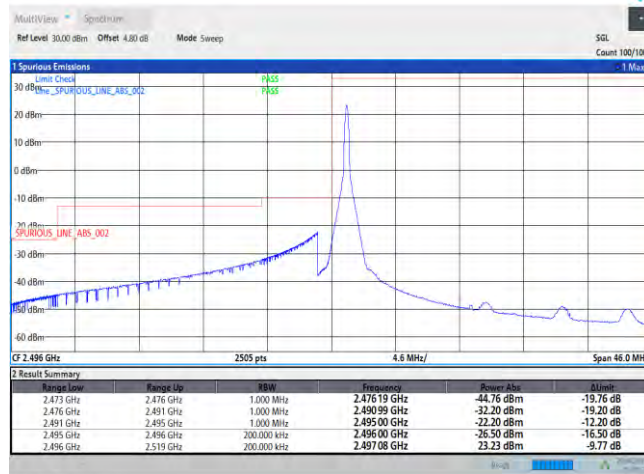


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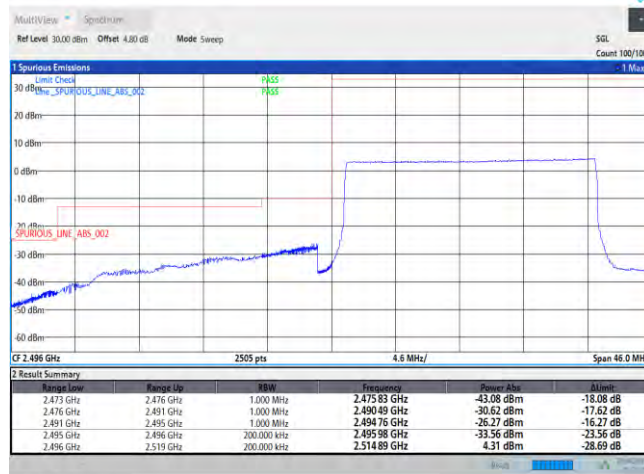


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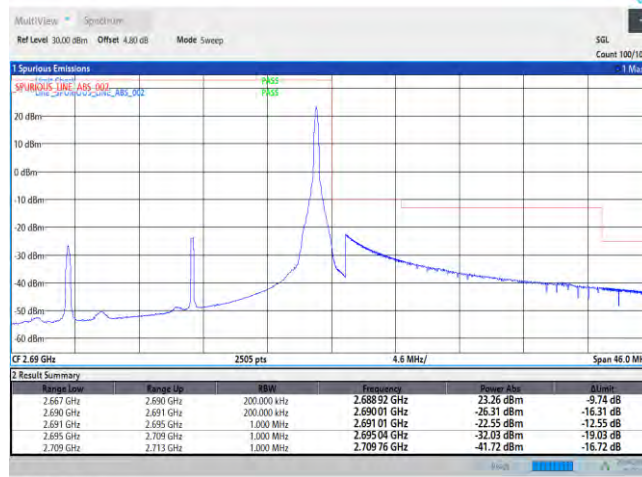
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Band41-20MHz-QPSK-41490-1RB#99



18:57:06 29.04.2023

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



19:00:30 29.04.2023



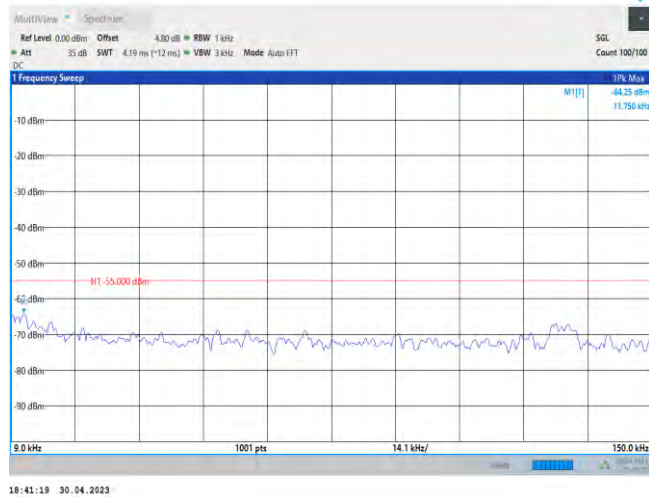
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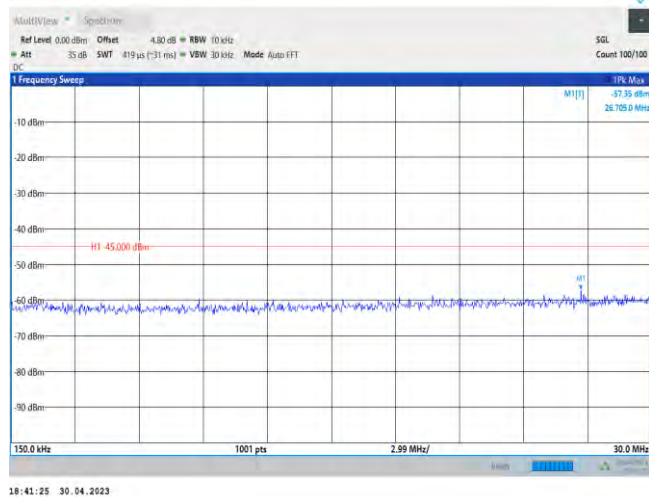
## Conducted Spurious Emission

### Test Graphs

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



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



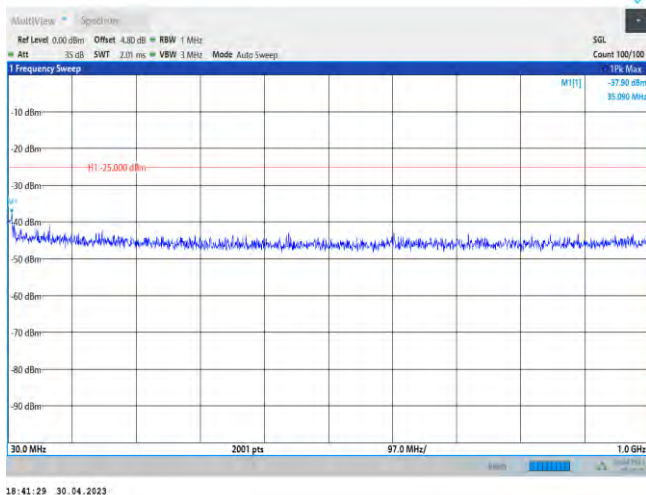
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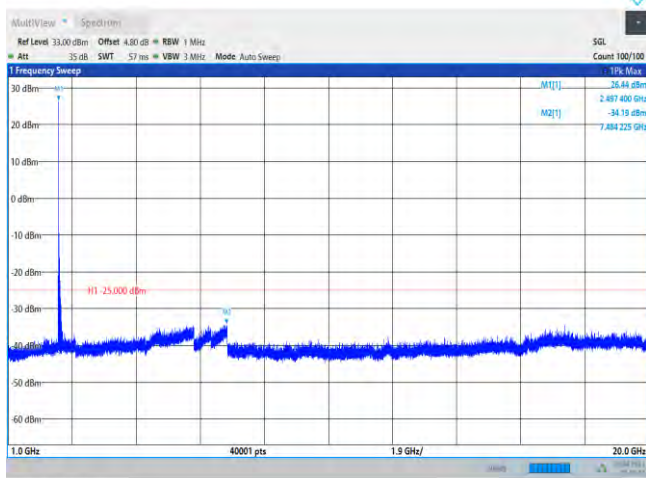


Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



18:41:29 30.04.2023

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



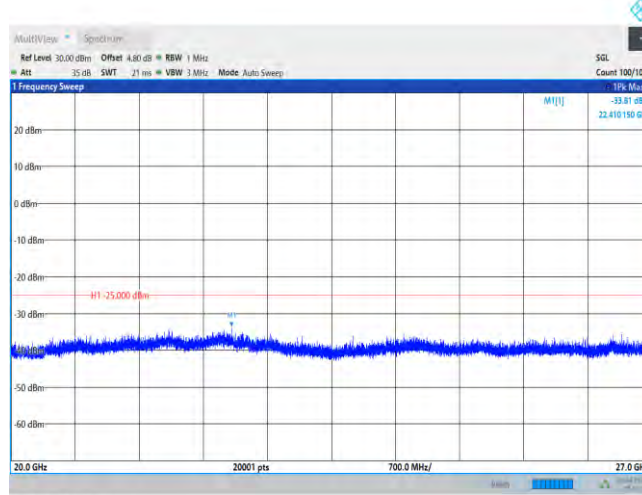
18:41:45 30.04.2023



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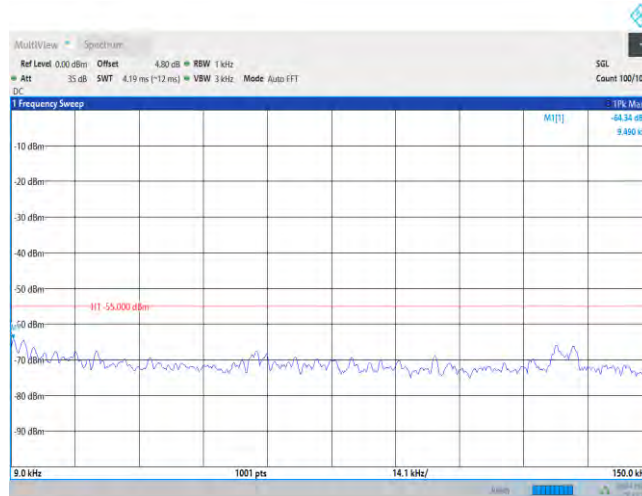
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



18:41:59 30.04.2023

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



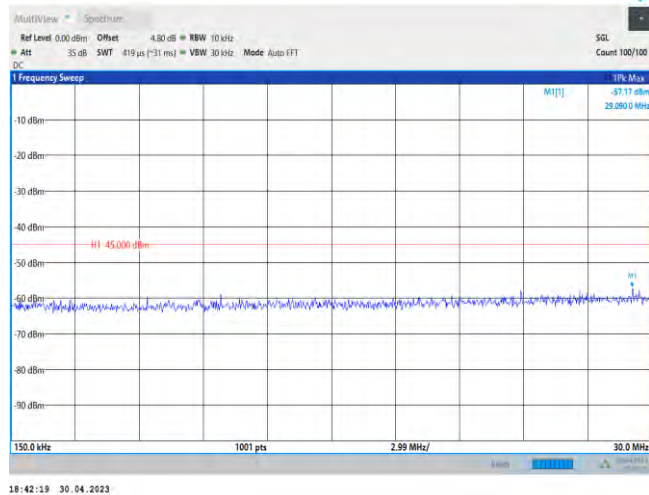
18:42:13 30.04.2023



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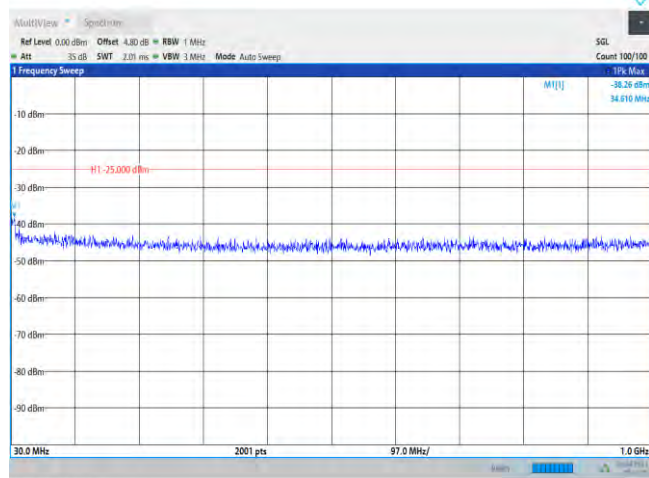
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



18:42:19 30.04.2023

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



18:42:23 30.04.2023



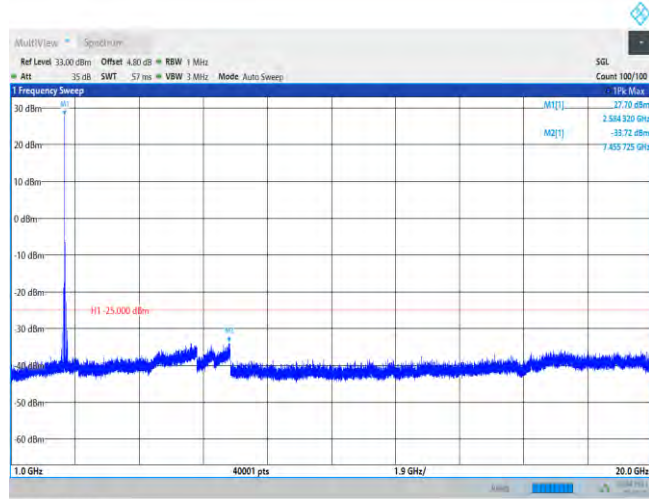
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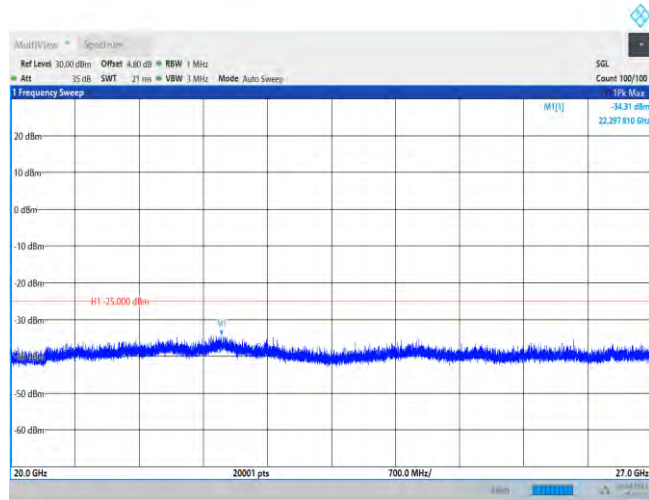


Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



18:42:39 30.04.2023

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



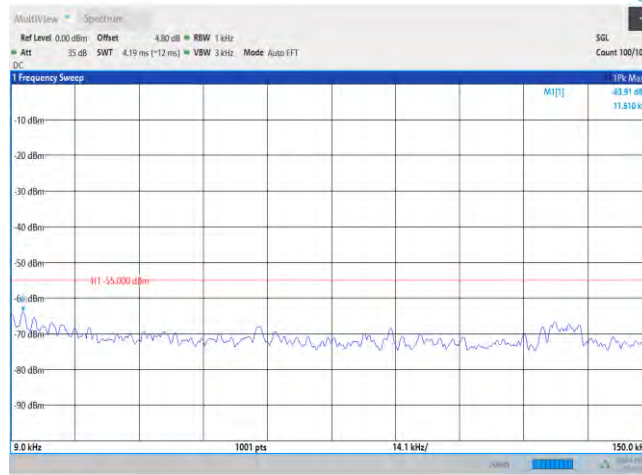
18:42:53 30.04.2023



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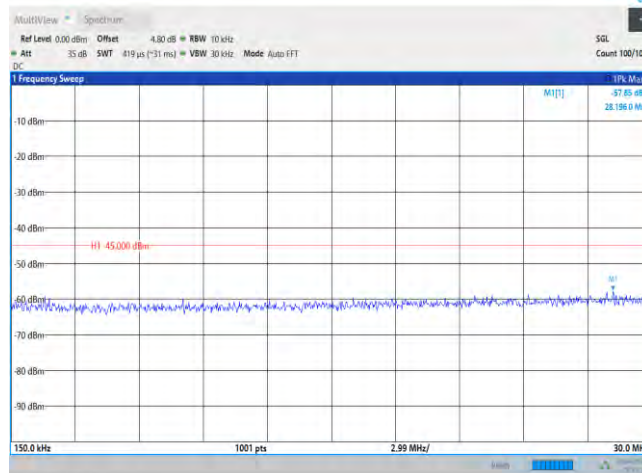
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



18:43:08 30.04.2023

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



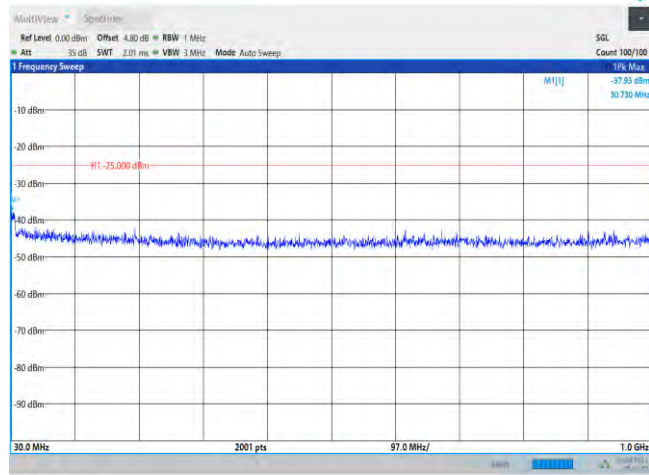
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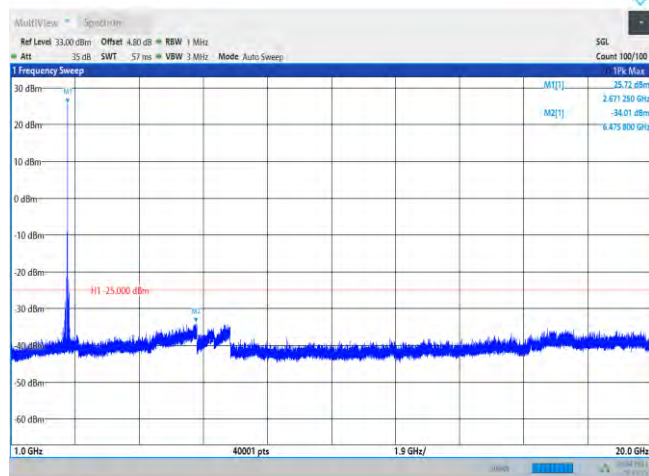
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



18:43:18 30.04.2023

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



18:43:34 30.04.2023

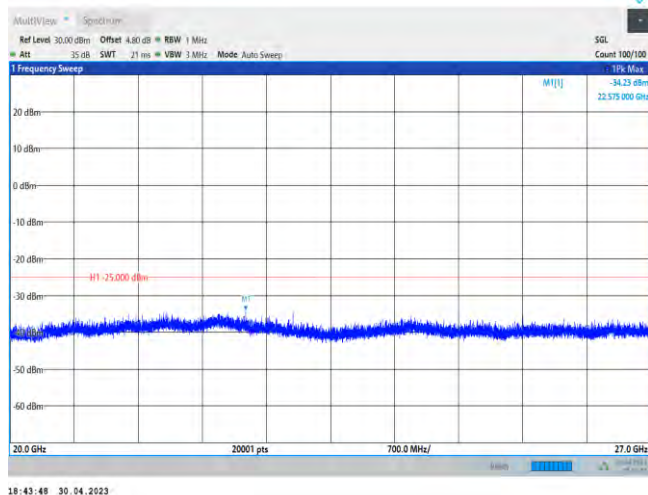


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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



18:43:48 30.04.2023



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### Field Strength of Spurious Radiation

Test Band = LTE Band41\_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	4994.1800	41.11	-45.63	32.86	-66.92	-25.00	41.92	158	136	Horizontal
2	7491.2700	38.93	-43.16	36.44	-63.05	-25.00	38.05	169	0	Horizontal
3	9988.3600	34.13	-39.25	38.47	-61.91	-25.00	36.91	194	225	Horizontal
4	12485.4500	29.70	-37.04	39.16	-63.44	-25.00	38.44	175	151	Horizontal
5	14982.5400	28.25	-34.64	39.26	-62.39	-25.00	37.39	255	136	Horizontal
6	17479.6300	30.81	-35.10	39.13	-60.42	-25.00	35.42	180	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	4994.1800	41.73	-45.63	32.86	-66.30	-25.00	41.30	254	301	Vertical
2	7491.2700	38.28	-43.16	36.44	-63.70	-25.00	38.70	126	164	Vertical
3	9988.3600	34.86	-39.25	38.47	-61.18	-25.00	36.18	142	43	Vertical
4	12485.4500	30.01	-37.04	39.16	-63.13	-25.00	38.13	138	255	Vertical
5	14982.5400	27.91	-34.64	39.26	-62.73	-25.00	37.73	129	330	Vertical
6	17479.6300	31.29	-35.10	39.13	-59.94	-25.00	34.94	255	269	Vertical



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Test Band = LTE Band41\_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	3784.5	43.37	-45.85	30.27	-67.47	-25.00	42.47	214	317	Horizontal
2	5168.1800	40.60	-45.31	32.97	-67.00	-25.00	42.00	175	226	Horizontal
3	7752.2700	39.18	-42.69	36.69	-62.08	-25.00	37.08	144	16	Horizontal
4	10336.3600	34.43	-39.06	38.84	-61.05	-25.00	36.05	129	212	Horizontal
5	12920.4500	30.51	-37.16	39.75	-62.16	-25.00	37.16	183	16	Horizontal
6	15504.5400	27.49	-35.35	38.57	-64.55	-25.00	39.55	156	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	3771	42.83	-45.80	30.23	-68.00	-25.00	43.00	255	195	Vertical
2	5168.1800	40.41	-45.31	32.97	-67.19	-25.00	42.19	148	356	Vertical
3	7752.2700	39.09	-42.69	36.69	-62.17	-25.00	37.17	162	0	Vertical
4	10336.3600	34.02	-39.06	38.84	-61.46	-25.00	36.46	133	134	Vertical
5	12920.4500	31.09	-37.16	39.75	-61.58	-25.00	36.58	288	16	Vertical
6	15504.5400	27.86	-35.35	38.57	-64.18	-25.00	39.18	186	224	Vertical



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**Test Band = LTE Band41\_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	3774.75	44.11	-45.81	30.24	-66.72	-25.00	41.72	211	316	Horizontal
2	5342.1800	42.29	-45.18	32.85	-65.29	-25.00	40.29	122	226	Horizontal
3	8013.2700	39.69	-42.21	37.01	-60.77	-25.00	35.77	169	29	Horizontal
4	10684.3600	35.55	-37.97	39.13	-58.55	-25.00	33.55	185	43	Horizontal
5	13355.4500	34.49	-36.56	40.10	-57.23	-25.00	32.23	174	104	Horizontal
6	16026.5400	33.95	-34.85	37.83	-58.34	-25.00	33.34	129	29	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3489.75	44.87	-46.26	29.51	-67.14	-25.00	42.14	222	0	Vertical
2	5342.1800	42.23	-45.18	32.85	-65.35	-25.00	40.35	105	346	Vertical
3	8013.2700	40.91	-42.21	37.01	-59.55	-25.00	34.55	142	300	Vertical
4	10684.3600	35.59	-37.97	39.13	-58.51	-25.00	33.51	183	300	Vertical
5	13355.4500	34.85	-36.56	40.10	-56.87	-25.00	31.87	122	331	Vertical
6	16026.5400	33.83	-34.85	37.83	-58.46	-25.00	33.46	260	2	Vertical



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Test Band = LTE Band41\_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	4994.1800	43.19	-45.63	32.86	-64.84	-25.00	39.84	145	0	Horizontal
2	7491.2700	40.40	-43.16	36.44	-61.58	-25.00	36.58	122	0	Horizontal
3	9988.3600	37.95	-39.25	38.47	-58.09	-25.00	33.09	158	3	Horizontal
4	12485.4500	34.61	-37.04	39.16	-58.53	-25.00	33.53	196	272	Horizontal
5	14982.5400	33.75	-34.64	39.26	-56.89	-25.00	31.89	175	120	Horizontal
6	17479.6300	33.24	-35.10	39.13	-57.99	-25.00	32.99	142	344	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	41.63	-45.63	32.86	-66.40	-25.00	41.40	122	356	Vertical
2	7491.2700	40.29	-43.16	36.44	-61.69	-25.00	36.69	148	181	Vertical
3	9988.3600	37.28	-39.25	38.47	-58.76	-25.00	33.76	189	356	Vertical
4	12485.4500	34.92	-37.04	39.16	-58.22	-25.00	33.22	175	225	Vertical
5	14982.5400	33.83	-34.64	39.26	-56.81	-25.00	31.81	142	346	Vertical
6	17479.6300	33.04	-35.10	39.13	-58.19	-25.00	33.19	165	59	Vertical



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Test Band = LTE Band41\_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	3733.5	43.52	-45.64	30.09	-67.29	-25.00	42.29	258	76	Horizontal
2	5168.1800	41.85	-45.31	32.97	-65.75	-25.00	40.75	174	7	Horizontal
3	7752.2700	40.58	-42.69	36.69	-60.68	-25.00	35.68	186	90	Horizontal
4	10336.3600	36.32	-39.06	38.84	-59.16	-25.00	34.16	153	256	Horizontal
5	12920.4500	34.78	-37.16	39.75	-57.89	-25.00	32.89	216	17	Horizontal
6	15504.5400	32.91	-35.35	38.57	-59.13	-25.00	34.13	190	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	3969	43.86	-46.11	30.73	-66.79	-25.00	41.79	145	3	Vertical
2	5168.1800	42.25	-45.31	32.97	-65.35	-25.00	40.35	122	17	Vertical
3	7752.2700	40.39	-42.69	36.69	-60.87	-25.00	35.87	174	61	Vertical
4	10336.3600	36.42	-39.06	38.84	-59.06	-25.00	34.06	156	0	Vertical
5	12920.4500	34.69	-37.16	39.75	-57.98	-25.00	32.98	136	331	Vertical
6	15504.5400	33.48	-35.35	38.57	-58.56	-25.00	33.56	219	17	Vertical



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**Test Band = LTE Band41\_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	3669.75	43.56	-45.69	29.86	-67.53	-25.00	42.53	211	7	Horizontal
2	5342.1800	41.10	-45.18	32.85	-66.48	-25.00	41.48	145	272	Horizontal
3	8013.2700	39.73	-42.21	37.01	-60.73	-25.00	35.73	128	91	Horizontal
4	10684.3600	35.41	-37.97	39.13	-58.69	-25.00	33.69	196	91	Horizontal
5	13355.4500	33.76	-36.56	40.10	-57.96	-25.00	32.96	125	330	Horizontal
6	16026.5400	32.96	-34.85	37.83	-59.33	-25.00	34.33	136	179	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3924.75	44.18	-46.22	30.62	-66.68	-25.00	41.68	211	138	Vertical
2	5342.1800	42.05	-45.18	32.85	-65.53	-25.00	40.53	145	78	Vertical
3	8013.2700	39.76	-42.21	37.01	-60.70	-25.00	35.70	185	107	Vertical
4	10684.3600	35.38	-37.97	39.13	-58.72	-25.00	33.72	169	242	Vertical
5	13355.4500	34.41	-36.56	40.10	-57.31	-25.00	32.31	182	357	Vertical
6	16026.5400	33.02	-34.85	37.83	-59.27	-25.00	34.27	136	32	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-1.60	-0.000617	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-1.40	-0.000540	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-1.40	-0.000540	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-3.10	-0.001196	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	0.00	0.000000	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-1.10	-0.000424	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-0.10	-0.000039	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-2.00	-0.000771	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-1.80	-0.000694	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.90	-0.000347	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-1.90	-0.000733	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-1.10	-0.000424	PASS

---End of Attachment---



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