

Report No.: SEWM2305000166RG01

Rev.: 01

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Appendix B.17

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.56	23.82	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.58	23.84	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.62	23.88	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.62	22.88	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.16	24.42	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.59	23.85	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.67	23.93	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.68	22.94	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.13	24.39	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.4	23.66	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.5	23.76	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.48	22.74	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.71	22.97	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.72	22.98	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.68	22.94	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.57	21.83	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.68	22.94	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.77	23.03	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.95	23.21	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.6	21.86	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.47	22.73	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.69	22.95	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.64	22.9	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.4	21.66	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	21.39	21.65	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#12	21.29	21.55	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#24	21.41	21.67	33.00	PASS



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Band41	5MHz	64QAM	39675	25RB#0	20.62	20.88	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	21.36	21.62	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	21.32	21.58	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.37	21.63	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	20.64	20.9	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.19	21.45	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.12	21.38	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.25	21.51	33.00	PASS
Band41	5MHz	64QAM	41565	25RB#0	20.46	20.72	33.00	PASS
Band41	5MHz	256QAM	39675	1RB#0	18.47	18.73	33.00	PASS
Band41	5MHz	256QAM	39675	1RB#12	18.46	18.72	33.00	PASS
Band41	5MHz	256QAM	39675	1RB#24	18.51	18.77	33.00	PASS
Band41	5MHz	256QAM	39675	25RB#0	18.68	18.94	33.00	PASS
Band41	5MHz	256QAM	40620	1RB#0	18.51	18.77	33.00	PASS
Band41	5MHz	256QAM	40620	1RB#12	18.59	18.85	33.00	PASS
Band41	5MHz	256QAM	40620	1RB#24	18.63	18.89	33.00	PASS
Band41	5MHz	256QAM	40620	25RB#0	18.71	18.97	33.00	PASS
Band41	5MHz	256QAM	41565	1RB#0	18.38	18.64	33.00	PASS
Band41	5MHz	256QAM	41565	1RB#12	18.33	18.59	33.00	PASS
Band41	5MHz	256QAM	41565	1RB#24	18.37	18.63	33.00	PASS
Band41	5MHz	256QAM	41565	25RB#0	18.52	18.78	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.51	23.77	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.54	23.8	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.56	23.82	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.65	22.91	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.85	24.11	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.59	23.85	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.49	23.75	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.69	22.95	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.76	24.02	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.4	23.66	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.33	23.59	33.00	PASS



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Band41	10MHz	QPSK	41540	50RB#0	22.41	22.67	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.61	22.87	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.61	22.87	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.67	22.93	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.72	21.98	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.75	23.01	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.65	22.91	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.61	22.87	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.7	21.96	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.6	22.86	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.5	22.76	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.41	22.67	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.42	21.68	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	21.36	21.62	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	21.31	21.57	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	21.42	21.68	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	20.72	20.98	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	21.31	21.57	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	21.36	21.62	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.34	21.6	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	20.76	21.02	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	21.21	21.47	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.21	21.47	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	21.18	21.44	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	20.45	20.71	33.00	PASS
Band41	10MHz	256QAM	39700	1RB#0	18.47	18.73	33.00	PASS
Band41	10MHz	256QAM	39700	1RB#24	18.43	18.69	33.00	PASS
Band41	10MHz	256QAM	39700	1RB#49	18.45	18.71	33.00	PASS
Band41	10MHz	256QAM	39700	50RB#0	18.72	18.98	33.00	PASS
Band41	10MHz	256QAM	40620	1RB#0	18.41	18.67	33.00	PASS
Band41	10MHz	256QAM	40620	1RB#24	18.5	18.76	33.00	PASS
Band41	10MHz	256QAM	40620	1RB#49	18.43	18.69	33.00	PASS



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Band41	10MHz	256QAM	40620	50RB#0	18.78	19.04	33.00	PASS
Band41	10MHz	256QAM	41540	1RB#0	18.22	18.48	33.00	PASS
Band41	10MHz	256QAM	41540	1RB#24	18.28	18.54	33.00	PASS
Band41	10MHz	256QAM	41540	1RB#49	18.21	18.47	33.00	PASS
Band41	10MHz	256QAM	41540	50RB#0	18.5	18.76	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.23	23.49	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.3	23.56	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.37	23.63	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.55	22.81	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.81	24.07	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.36	23.62	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.44	23.7	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.55	22.81	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.93	24.19	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.13	23.39	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.17	23.43	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.31	22.57	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.48	22.74	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.54	22.8	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.6	22.86	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.57	21.83	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.76	23.02	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.56	22.82	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.66	22.92	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.57	21.83	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.57	22.83	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.45	22.71	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.43	22.69	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.31	21.57	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	20.97	21.23	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	21.09	21.35	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	21.15	21.41	33.00	PASS



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Band41	15MHz	64QAM	39725	75RB#0	20.61	20.87	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.1	21.36	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.12	21.38	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	21.62	21.88	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	20.59	20.85	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	20.94	21.2	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	20.95	21.21	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	20.96	21.22	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	20.34	20.6	33.00	PASS
Band41	15MHz	256QAM	39725	1RB#0	18.27	18.53	33.00	PASS
Band41	15MHz	256QAM	39725	1RB#38	18.29	18.55	33.00	PASS
Band41	15MHz	256QAM	39725	1RB#74	18.41	18.67	33.00	PASS
Band41	15MHz	256QAM	39725	75RB#0	18.58	18.84	33.00	PASS
Band41	15MHz	256QAM	40620	1RB#0	18.27	18.53	33.00	PASS
Band41	15MHz	256QAM	40620	1RB#38	18.28	18.54	33.00	PASS
Band41	15MHz	256QAM	40620	1RB#74	18.47	18.73	33.00	PASS
Band41	15MHz	256QAM	40620	75RB#0	18.58	18.84	33.00	PASS
Band41	15MHz	256QAM	41515	1RB#0	18.05	18.31	33.00	PASS
Band41	15MHz	256QAM	41515	1RB#38	18.1	18.36	33.00	PASS
Band41	15MHz	256QAM	41515	1RB#74	18.16	18.42	33.00	PASS
Band41	15MHz	256QAM	41515	75RB#0	18.31	18.57	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.25	23.51	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.36	23.62	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.39	23.65	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.6	22.86	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.74	24	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.38	23.64	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.46	23.72	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.54	22.8	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.58	23.84	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.2	23.46	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.17	23.43	33.00	PASS



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Band41	20MHz	QPSK	41490	100RB#0	22.29	22.55	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.47	22.73	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.53	22.79	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.61	22.87	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.61	21.87	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.73	22.99	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.5	22.76	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.65	22.91	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.58	21.84	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.57	22.83	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.41	22.67	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.46	22.72	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.3	21.56	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	20.97	21.23	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	21.11	21.37	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	21.15	21.41	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	20.65	20.91	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	21.13	21.39	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.14	21.4	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.18	21.44	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	20.6	20.86	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	21	21.26	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#49	20.95	21.21	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#99	20.96	21.22	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	20.31	20.57	33.00	PASS
Band41	20MHz	256QAM	39750	1RB#0	18.28	18.54	33.00	PASS
Band41	20MHz	256QAM	39750	1RB#49	18.31	18.57	33.00	PASS
Band41	20MHz	256QAM	39750	1RB#99	18.42	18.68	33.00	PASS
Band41	20MHz	256QAM	39750	100RB#0	18.62	18.88	33.00	PASS
Band41	20MHz	256QAM	40620	1RB#0	18.31	18.57	33.00	PASS
Band41	20MHz	256QAM	40620	1RB#49	18.27	18.53	33.00	PASS
Band41	20MHz	256QAM	40620	1RB#99	18.36	18.62	33.00	PASS



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Report No.: SEWM2305000166RG01

Rev.: 01

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Band41	20MHz	256QAM	40620	100RB#0	18.59	18.85	33.00	PASS
Band41	20MHz	256QAM	41490	1RB#0	18.09	18.35	33.00	PASS
Band41	20MHz	256QAM	41490	1RB#49	18.06	18.32	33.00	PASS
Band41	20MHz	256QAM	41490	1RB#99	18.16	18.42	33.00	PASS
Band41	20MHz	256QAM	41490	100RB#0	18.35	18.61	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	6.96	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.20	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.28	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	7.72	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	7.70	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.38	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.22	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.46	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.18	13	PASS
Band41	20MHz	256QAM	39750	100RB#0	8.52	13	PASS
Band41	20MHz	256QAM	40620	100RB#0	8.38	13	PASS
Band41	20MHz	256QAM	41490	100RB#0	8.14	13	PASS



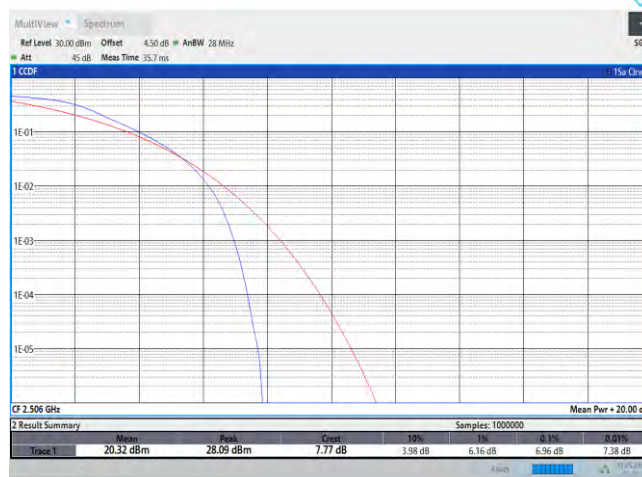
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Test Graphs

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



03:16:17 31. 05. 2023

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



19:02:07 29. 05. 2023

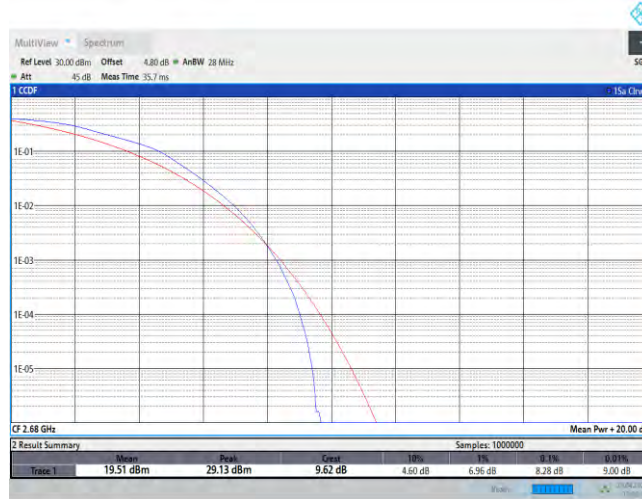


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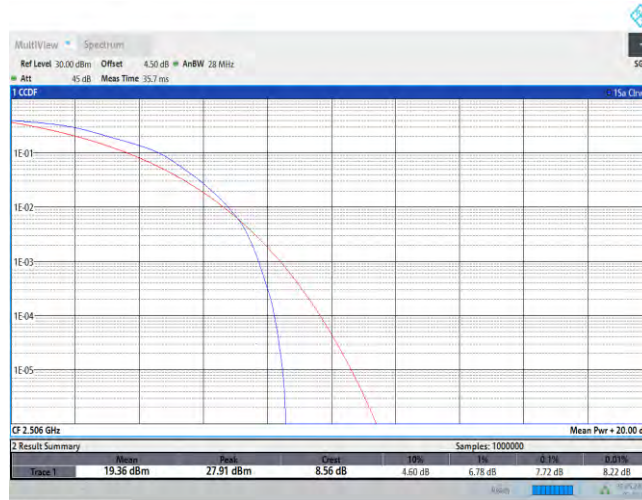
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Band41-20MHz-QPSK-41490-100RB#0



19:02:57 29.05.2023

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



03:16:34 31.05.2023

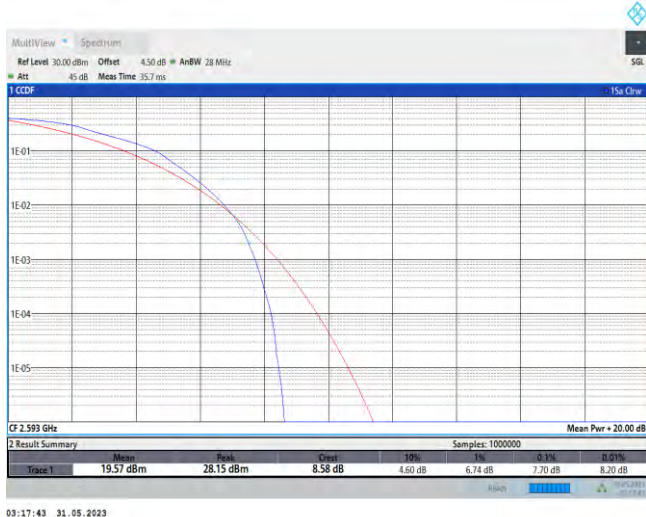


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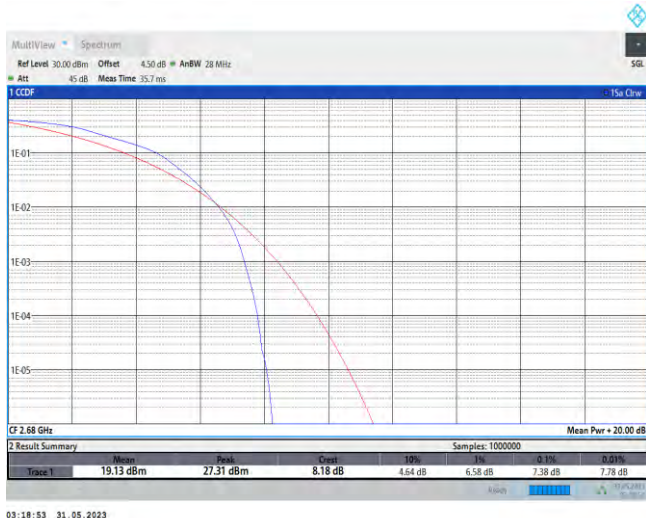
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Band41-20MHz-16QAM-40620-100RB#0



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

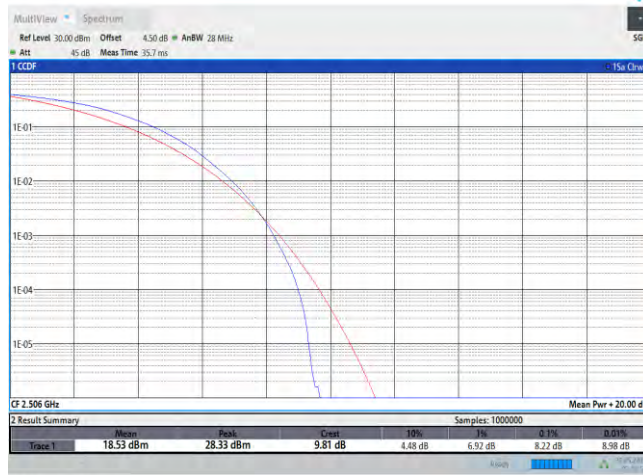


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Band41-20MHz-64QAM-39750-100RB#0



03:16:51 31.05.2023

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



03:17:59 31.05.2023



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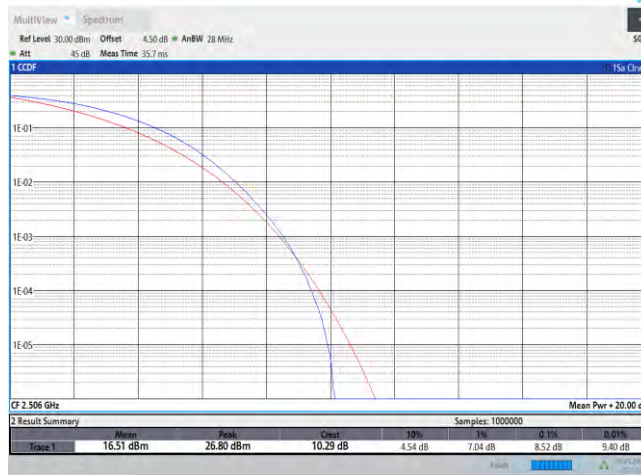
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Band41-20MHz-64QAM-41490-100RB#0



03:19:10 31.05.2023

Band41-20MHz-256QAM-39750-100RB#0



03:17:07 31.05.2023

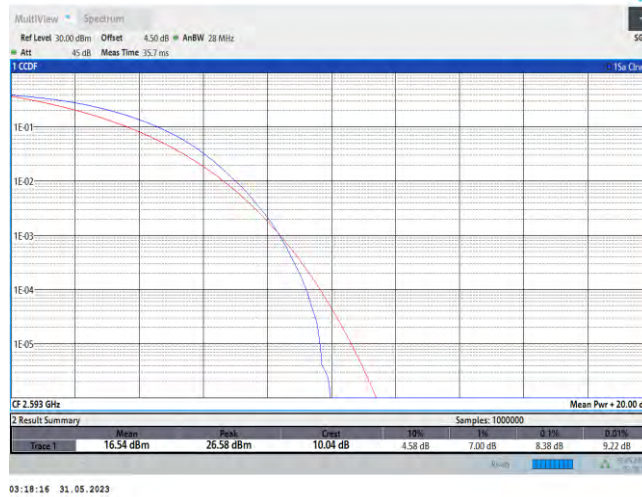


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Band41-20MHz-256QAM-40620-100RB#0



Band41-20MHz-256QAM-41490-100RB#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
Band41	20MHz	256QAM	40620	100RB#0	PASS	PASS



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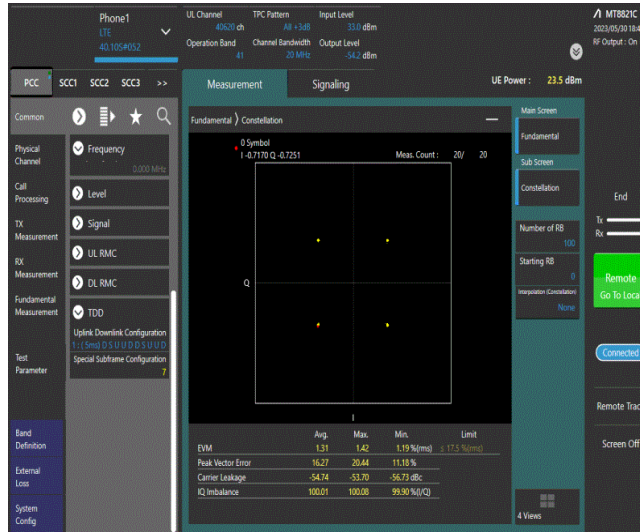
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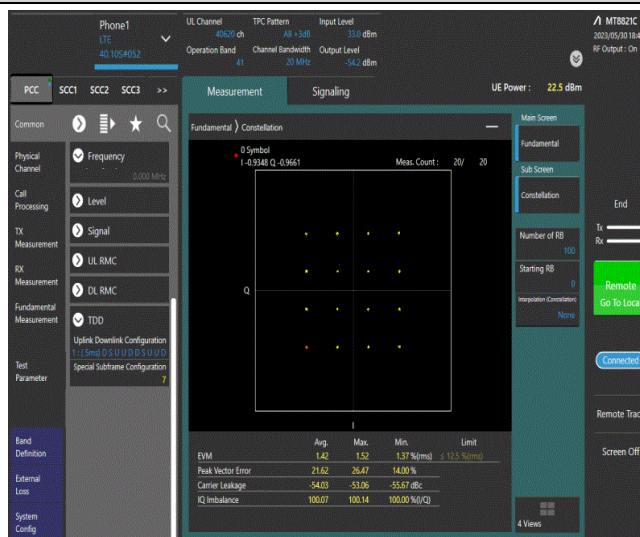
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Test Graphs

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



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



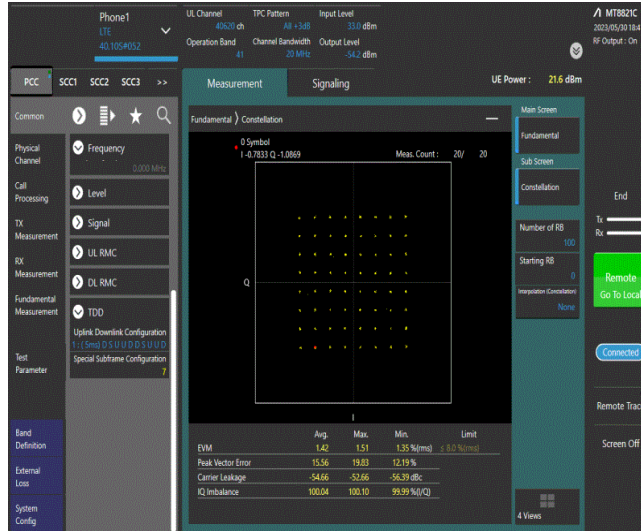
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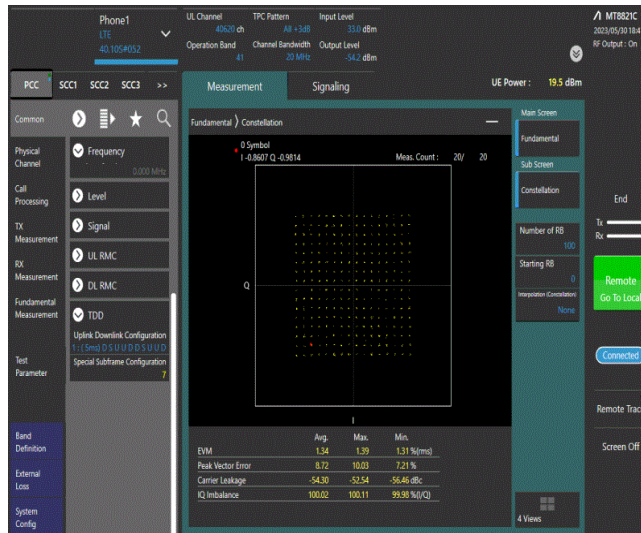
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Band41-20MHz-64QAM-40620-100RB#0



Band41-20MHz-256QAM-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	4.470	4.83	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.467	4.82	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.464	4.85	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.483	4.88	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.471	4.86	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.477	4.98	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.470	4.78	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.476	4.83	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.477	4.84	PASS
Band41	5MHz	256QAM	39675	25RB#0	4.460	4.89	PASS
Band41	5MHz	256QAM	40620	25RB#0	4.481	4.96	PASS
Band41	5MHz	256QAM	41565	25RB#0	4.465	4.83	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.933	9.42	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.928	9.44	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.941	9.72	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.941	9.52	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.918	9.54	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.930	9.54	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.957	9.98	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.961	9.64	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.915	9.54	PASS
Band41	10MHz	256QAM	39700	50RB#0	8.920	9.56	PASS
Band41	10MHz	256QAM	40620	50RB#0	8.907	9.60	PASS
Band41	10MHz	256QAM	41540	50RB#0	8.952	9.52	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.423	14.88	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.405	14.79	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.481	14.31	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.427	14.52	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.503	14.46	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.473	14.58	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.483	15.27	PASS



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Rev.: 01

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Band41	15MHz	64QAM	40620	75RB#0	13.505	14.52	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.407	14.52	PASS
Band41	15MHz	256QAM	39725	75RB#0	13.425	14.97	PASS
Band41	15MHz	256QAM	40620	75RB#0	13.444	14.55	PASS
Band41	15MHz	256QAM	41515	75RB#0	13.458	15.42	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.917	19.64	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.964	19.28	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.867	19.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.915	19.28	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.913	20.08	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.854	19.32	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.862	19.20	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.882	18.88	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.832	19.48	PASS
Band41	20MHz	256QAM	39750	100RB#0	17.881	19.72	PASS
Band41	20MHz	256QAM	40620	100RB#0	17.859	20.04	PASS
Band41	20MHz	256QAM	41490	100RB#0	17.896	19.16	PASS



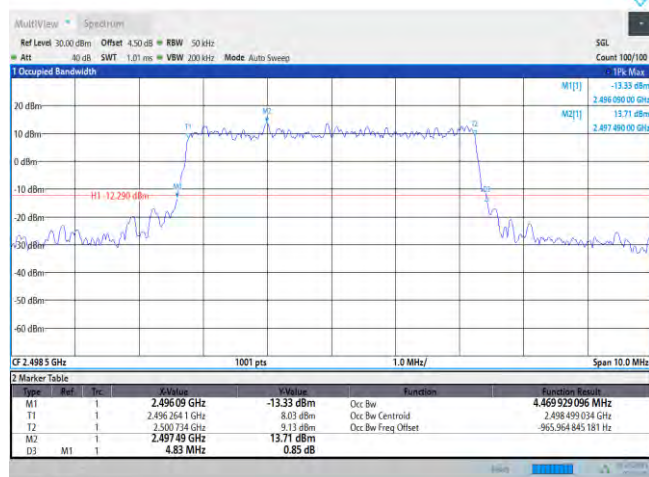
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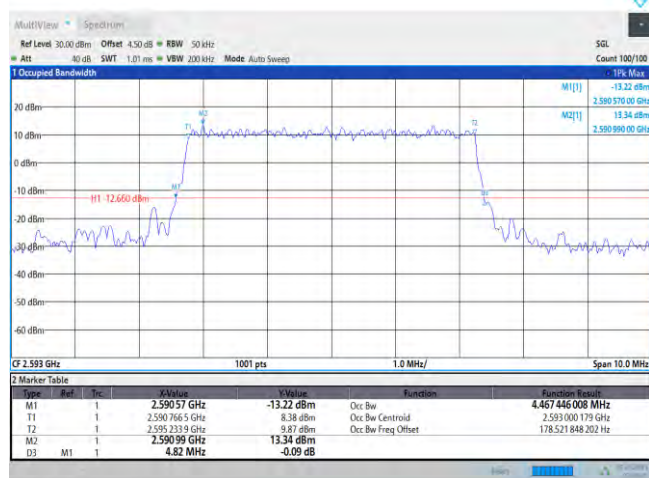
Test Graphs

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



02:03:50 31.05.2023

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



02:04:47 31.05.2023



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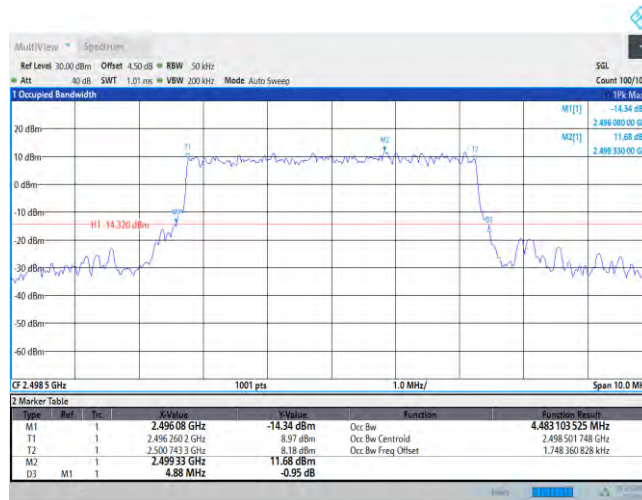
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Band41-5MHz-QPSK-41565-25RB#0



02:05:43 31.05.2023

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



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



02:05:01 31.05.2023

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



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Band41-5MHz-64QAM-39675-25RB#0



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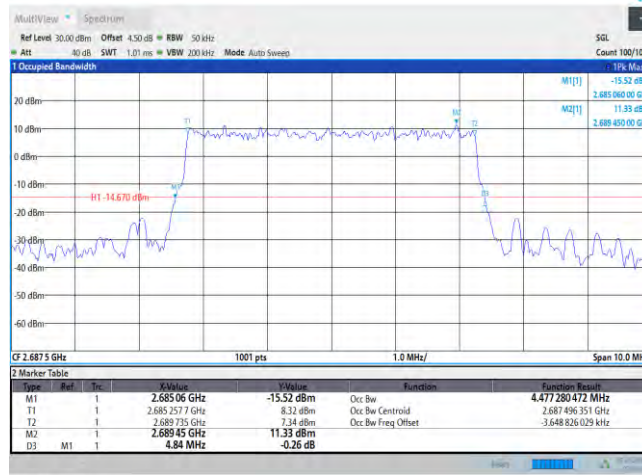
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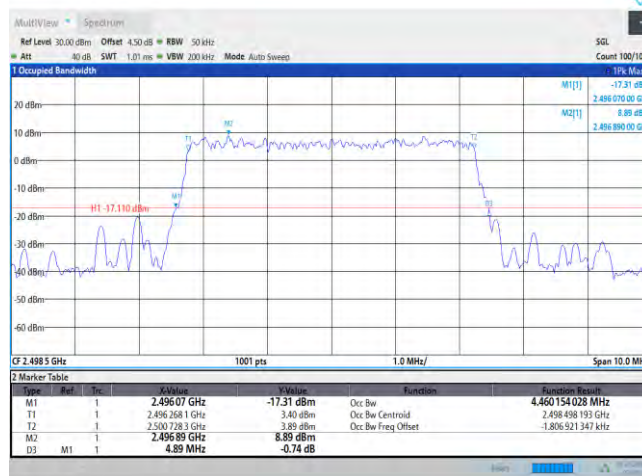
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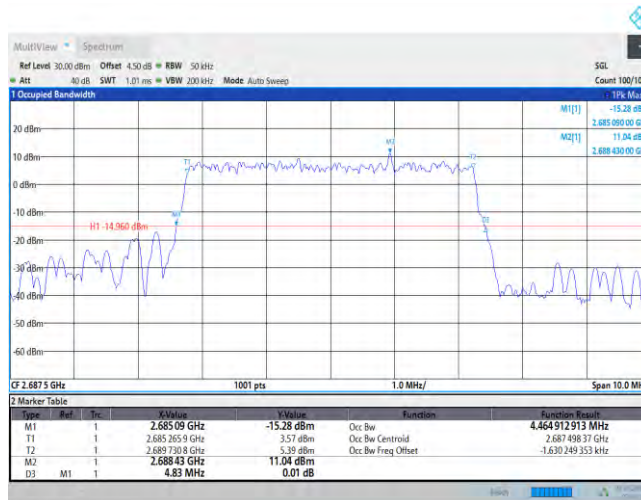
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Band41-5MHz-256QAM-40620-25RB#0



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Band41-5MHz-256QAM-41565-25RB#0



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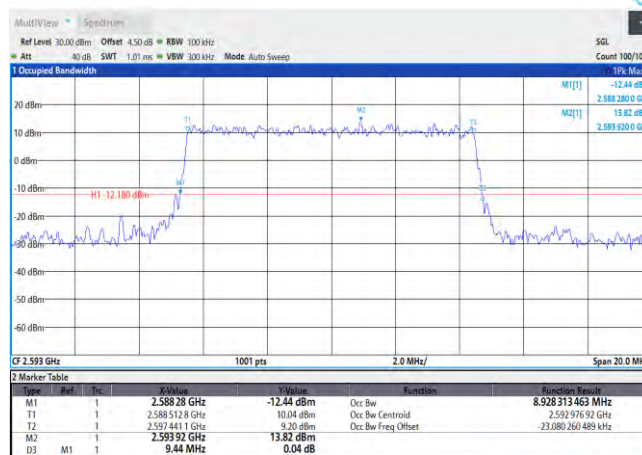
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Band41-10MHz-QPSK-39700-50RB#0



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



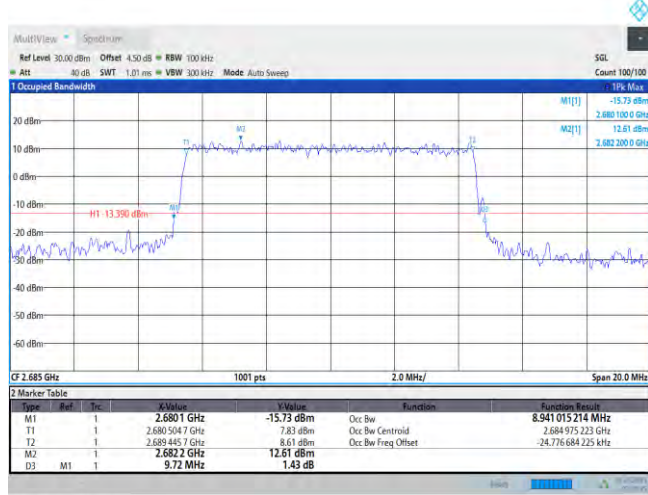
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Band41-10MHz-QPSK-41540-50RB#0



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



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



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Band41-10MHz-64QAM-39700-50RB#0



02:07:17 31.05.2023

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



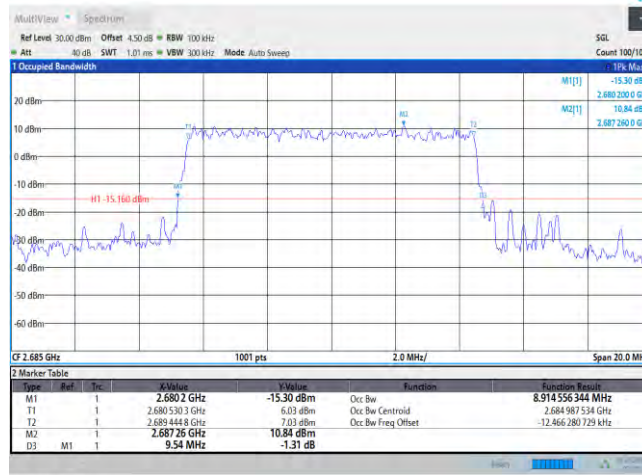
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Band41-10MHz-64QAM-41540-50RB#0



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Band41-10MHz-256QAM-39700-50RB#0



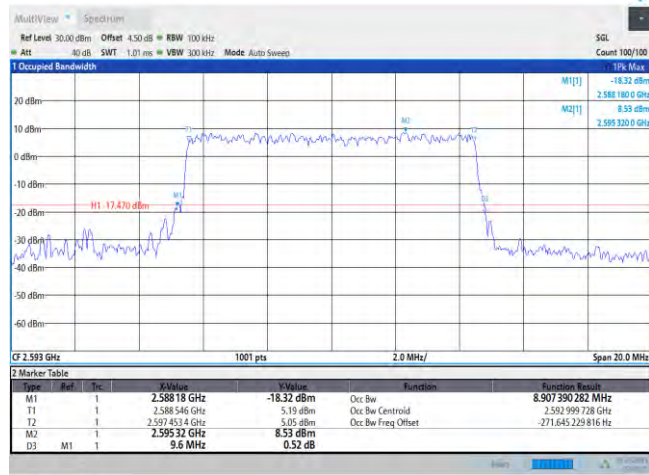
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Band41-10MHz-256QAM-40620-50RB#0



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Band41-10MHz-256QAM-41540-50RB#0



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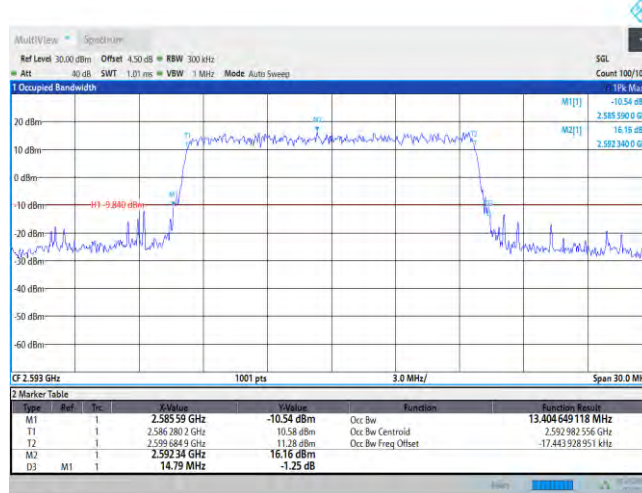
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Band41-15MHz-QPSK-39725-75RB#0



02:09:54 31.05.2023

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



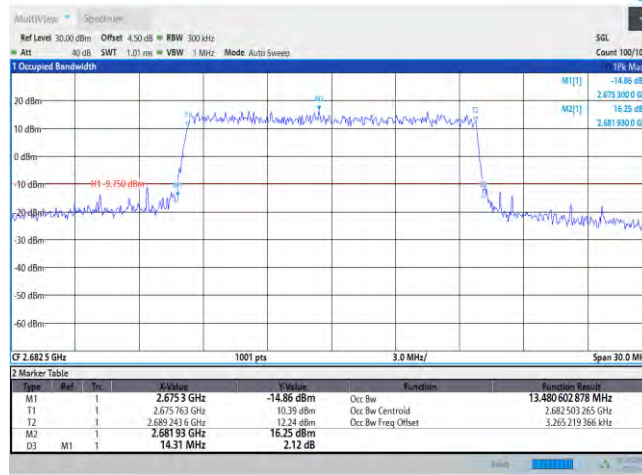
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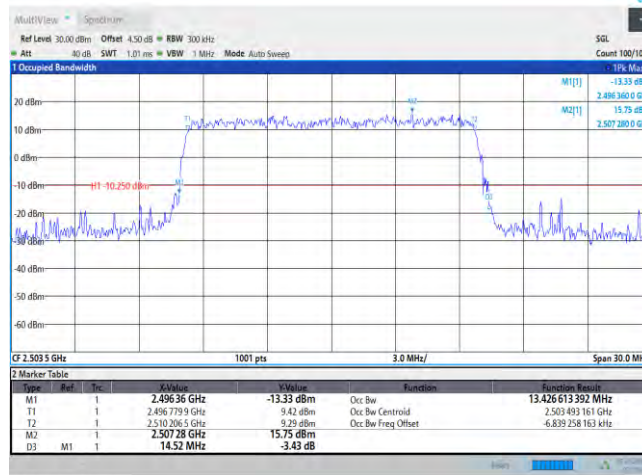
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Band41-15MHz-QPSK-41515-75RB#0



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Band41-15MHz-16QAM-39725-75RB#0



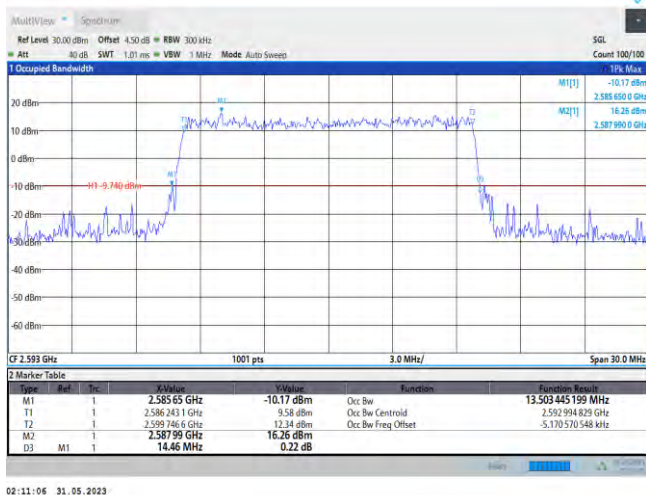
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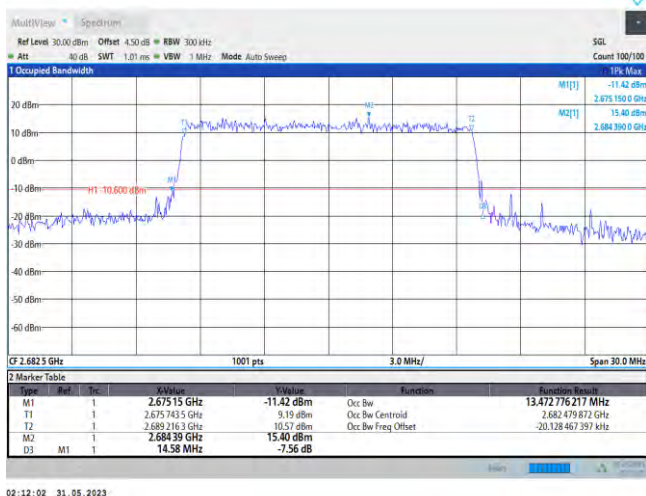
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Band41-15MHz-16QAM-40620-75RB#0



02:11:06 31.05.2023

Band41-15MHz-16QAM-41515-75RB#0



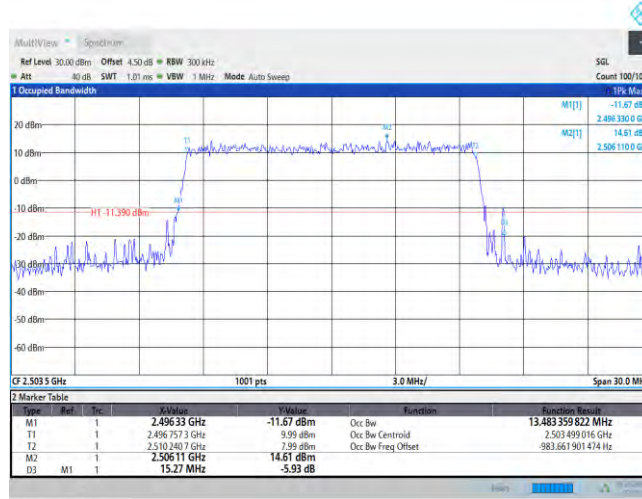
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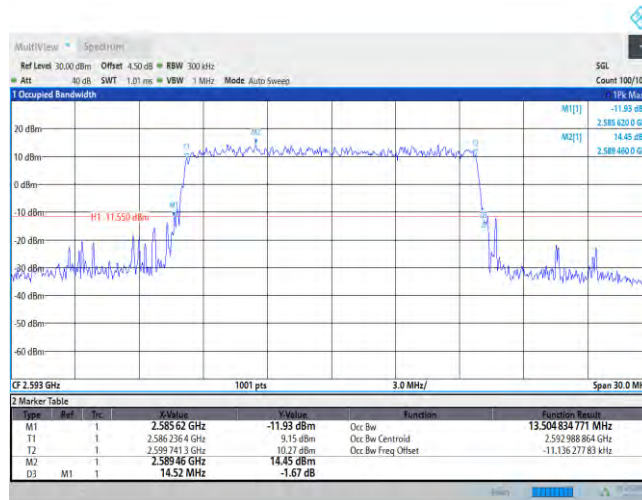
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Band41-15MHz-64QAM-39725-75RB#0



02:10:21 31.05.2023

Band41-15MHz-64QAM-40620-75RB#0



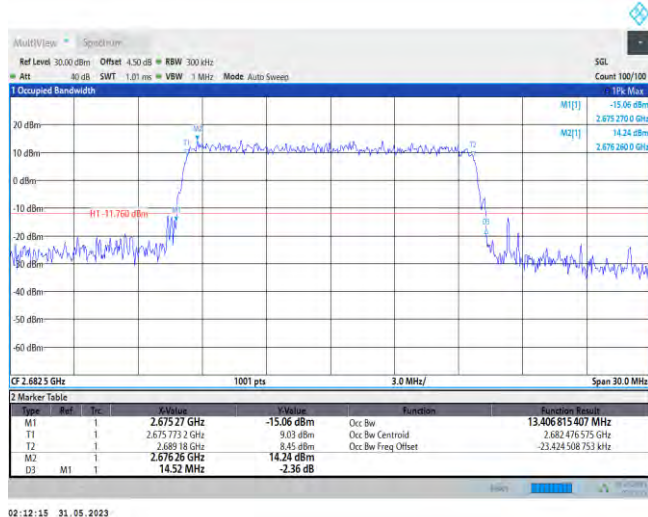
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Band41-15MHz-64QAM-41515-75RB#0



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Band41-15MHz-256QAM-39725-75RB#0



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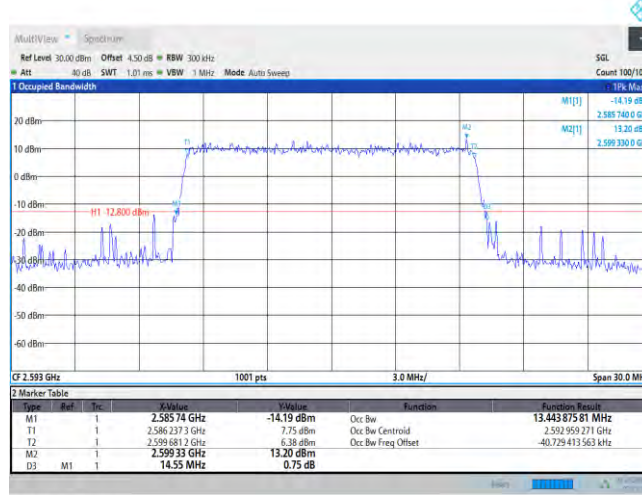


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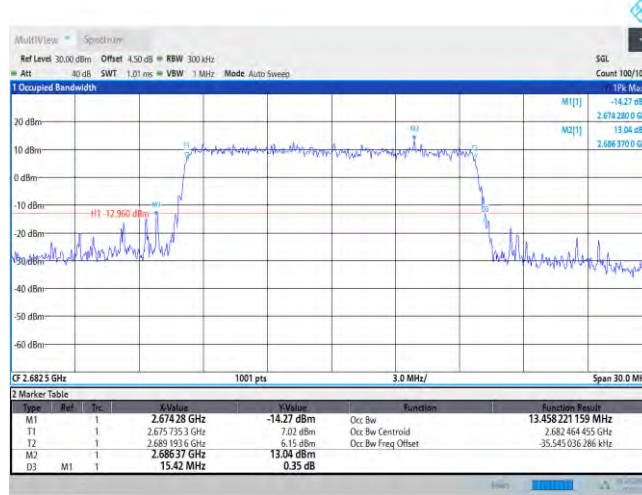
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Band41-15MHz-256QAM-40620-75RB#0



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Band41-15MHz-256QAM-41515-75RB#0



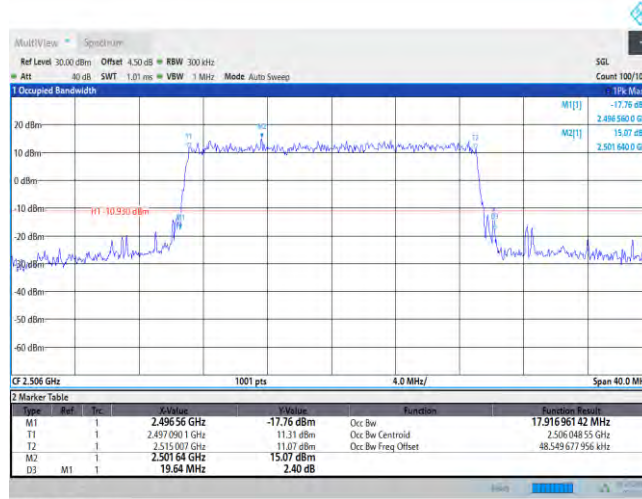
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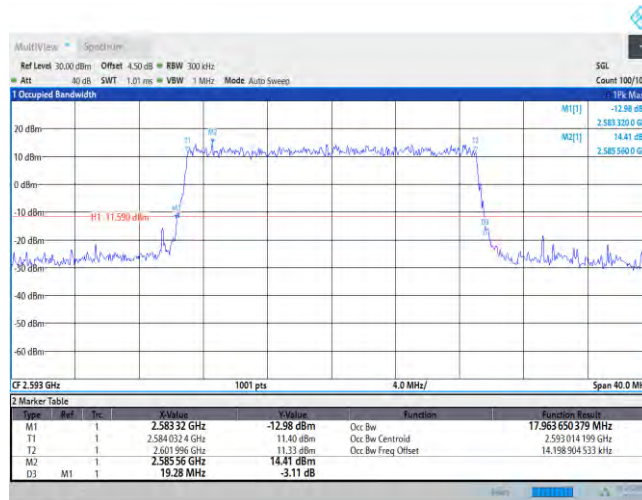
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Band41-20MHz-QPSK-39750-100RB#0



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



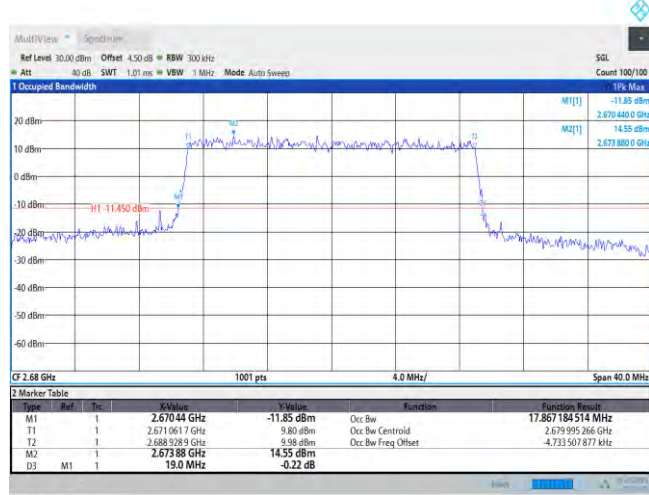
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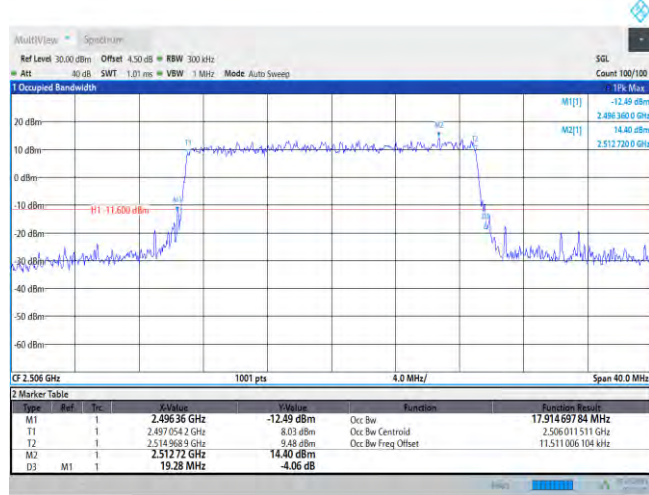
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Band41-20MHz-QPSK-41490-100RB#0



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



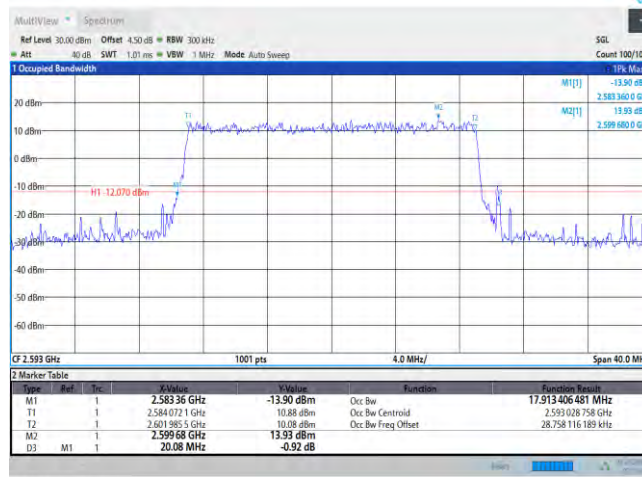
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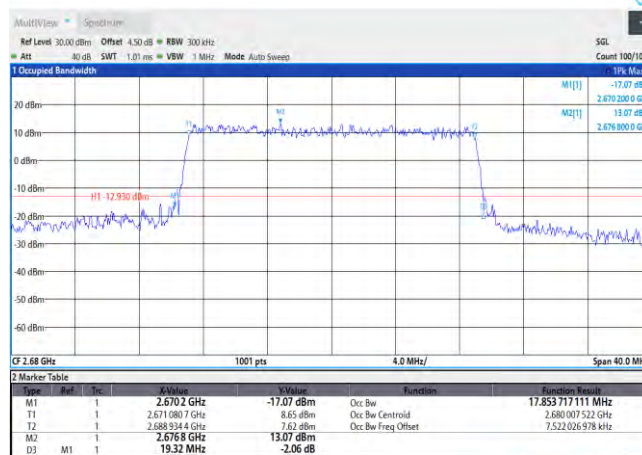
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Band41-20MHz-16QAM-40620-100RB#0



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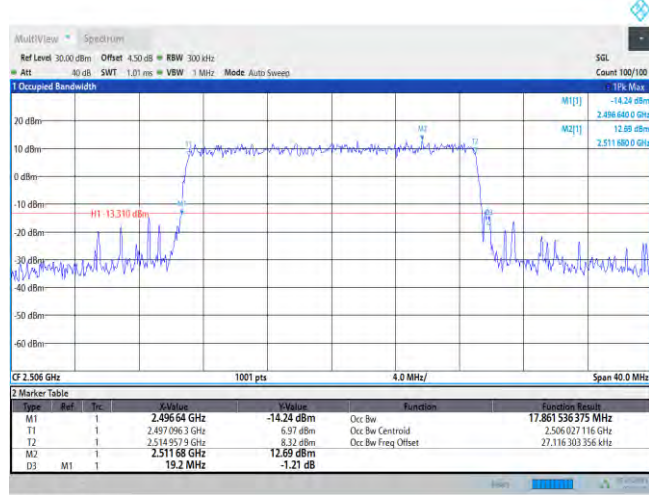
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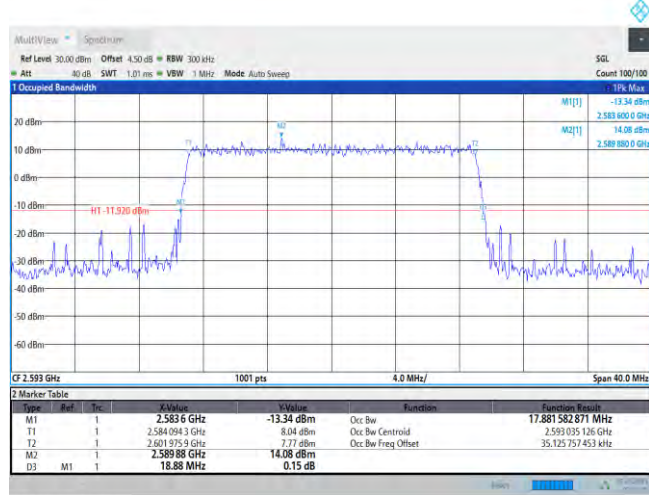
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Band41-20MHz-64QAM-39750-100RB#0



02:13:22 31.05.2023

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



02:14:19 31.05.2023



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



02:15:17 31.05.2023

Band41-20MHz-256QAM-39750-100RB#0



02:13:35 31.05.2023



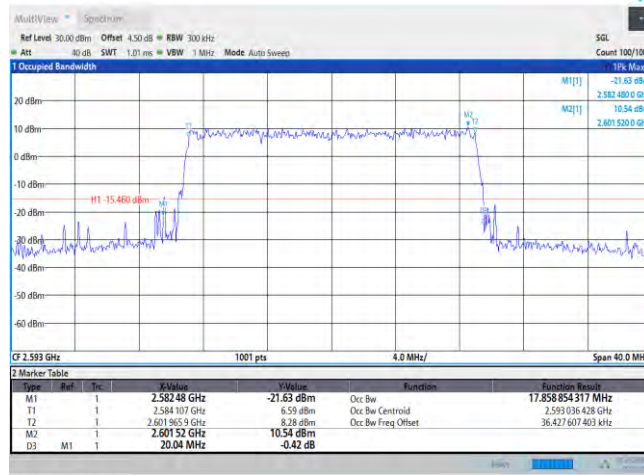
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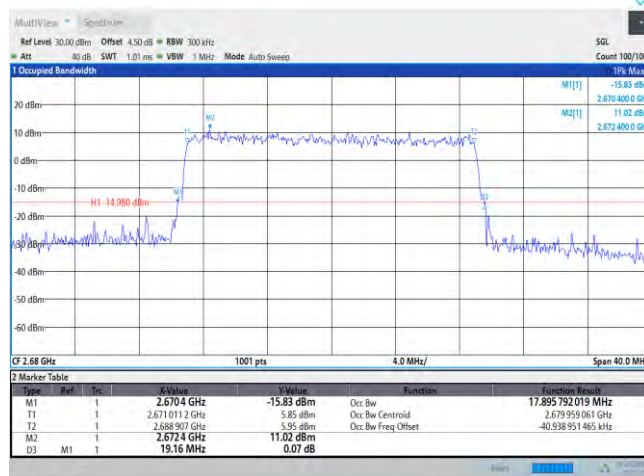
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Band41-20MHz-256QAM-40620-100RB#0



02:14:33 31.05.2023

Band41-20MHz-256QAM-41490-100RB#0



02:15:31 31.05.2023



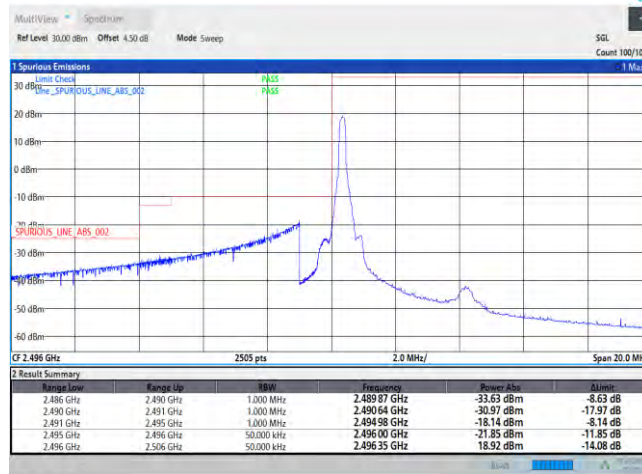
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Band Edge

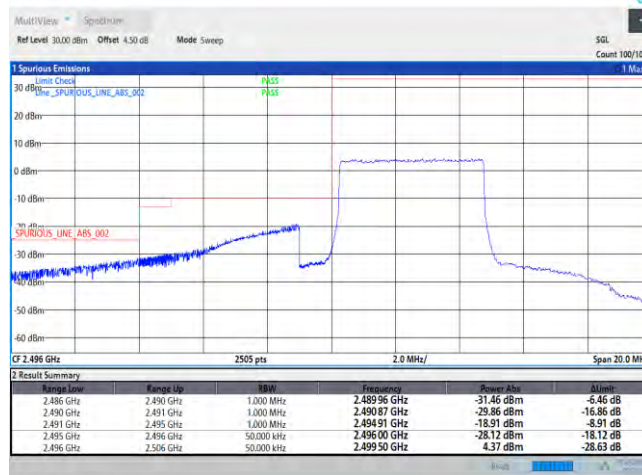
Test Graphs

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



02:19:12 31.05.2023

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



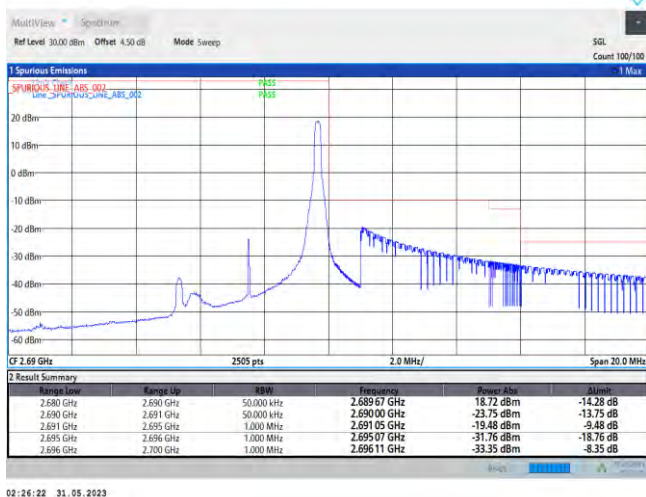
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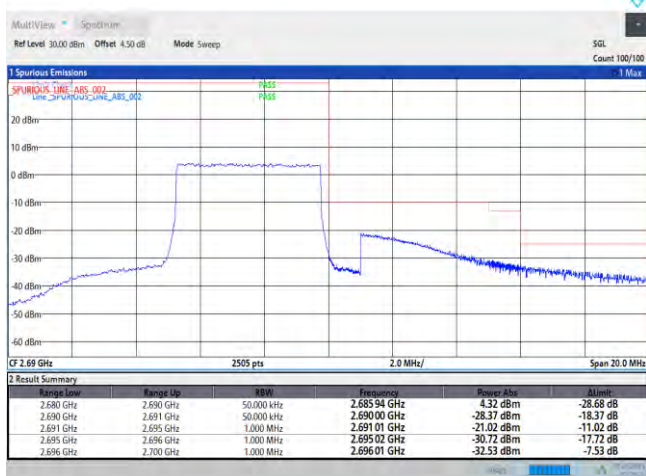
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Band41-5MHz-QPSK-41565-1RB#24



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



02:29:54 31.05.2023

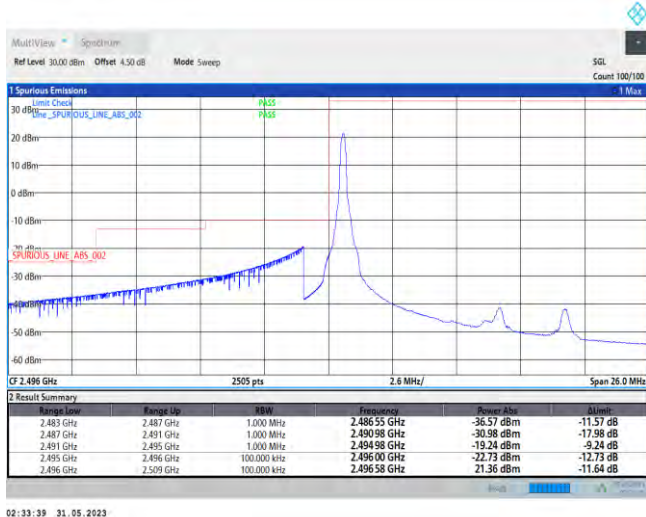


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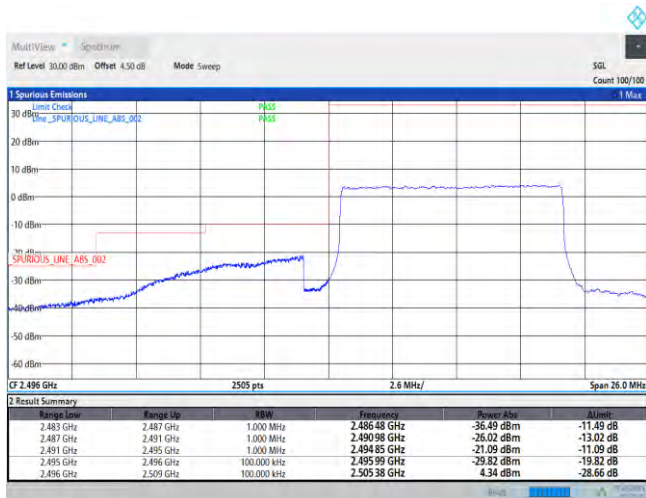
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Band41-10MHz-QPSK-39700-1RB#0



02:33:39 31.05.2023

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



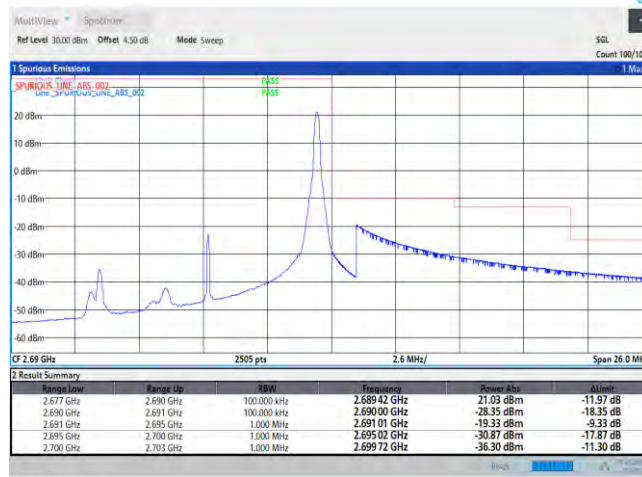
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Band41-10MHz-QPSK-41540-1RB#49



02:40:50 31. 05. 2023

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



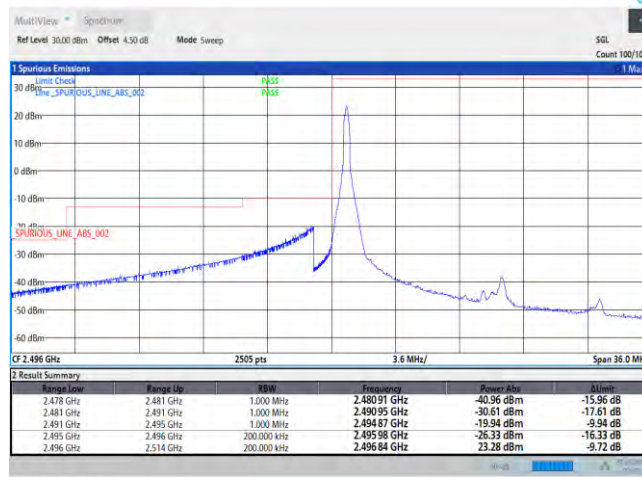
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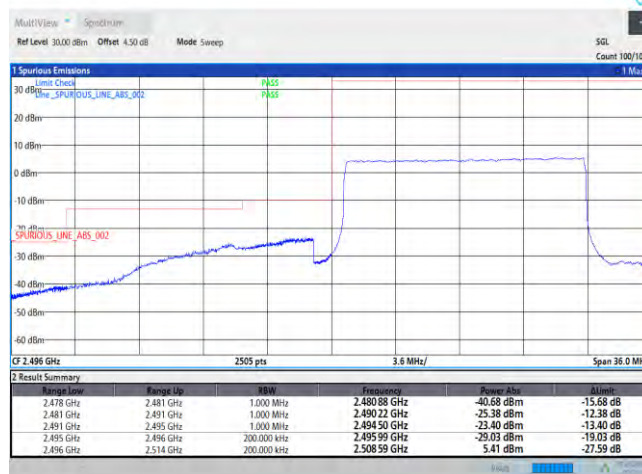
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Band41-15MHz-QPSK-39725-1RB#0



02:47:58 31.05.2023

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



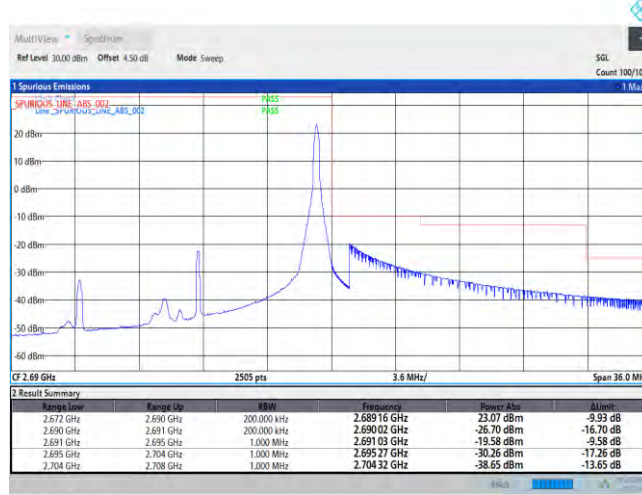
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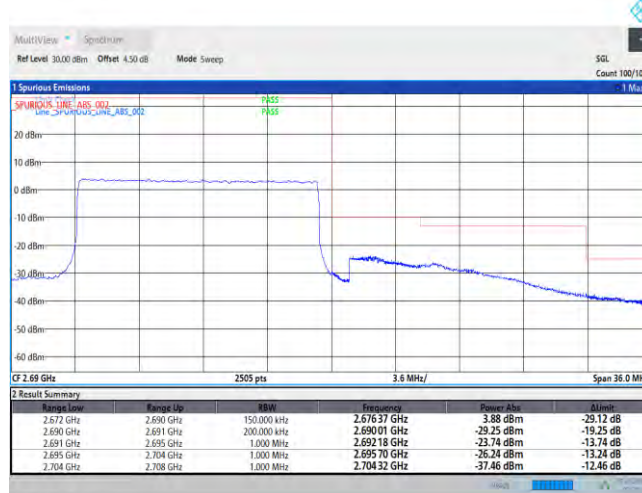
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Band41-15MHz-QPSK-41515-1RB#74



02:55:05 31.05.2023

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



02:58:30 31.05.2023



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



03:02:13 31.05.2023

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



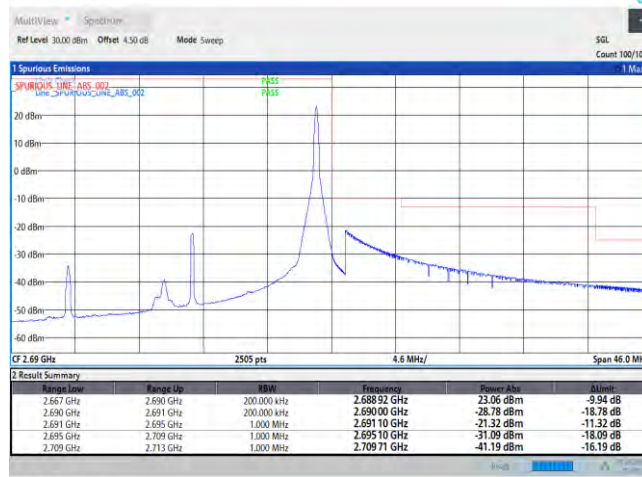
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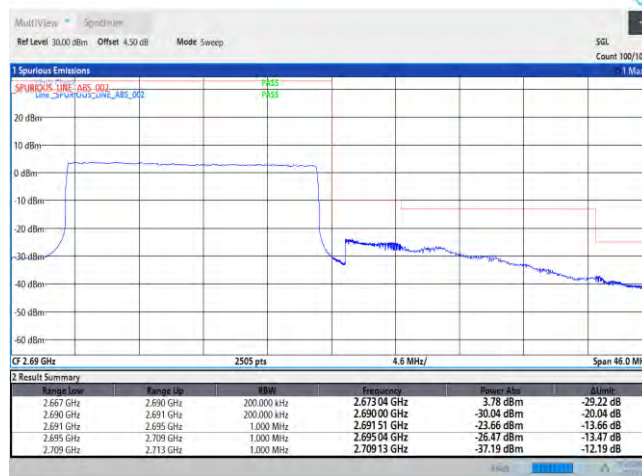
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Band41-20MHz-QPSK-41490-1RB#99



03:09:20 31.05.2023

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



03:12:46 31.05.2023



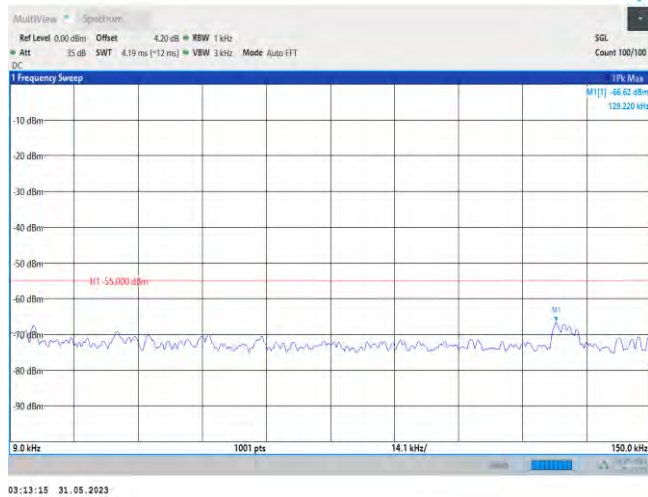
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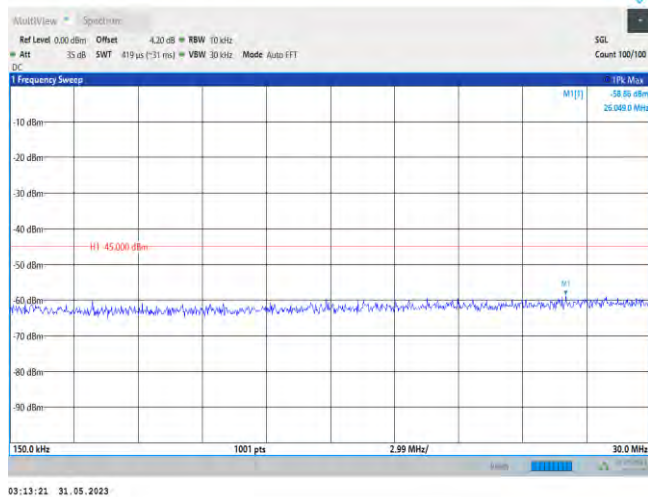
Conducted Spurious Emission

Test Graphs

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



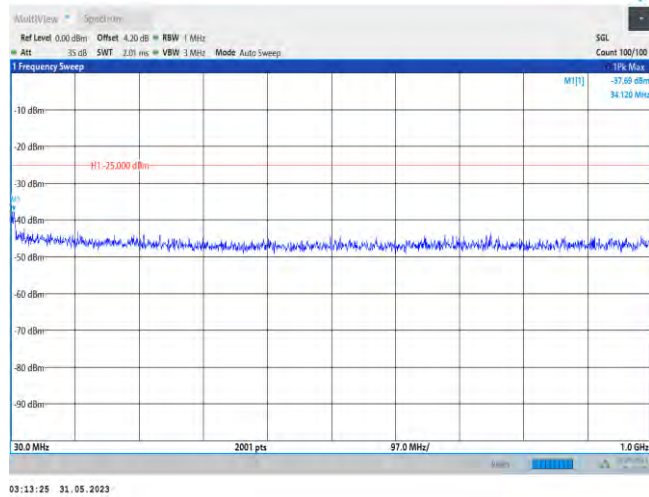
Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



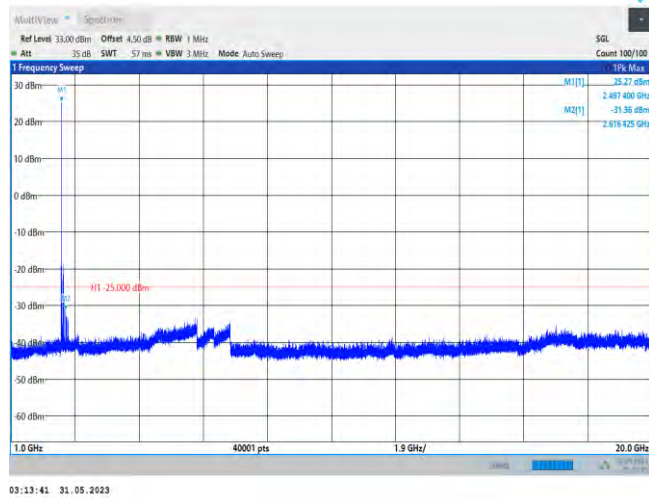
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



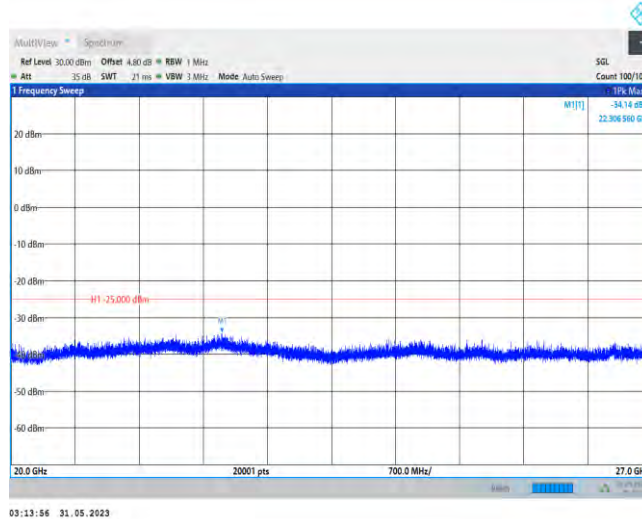
Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



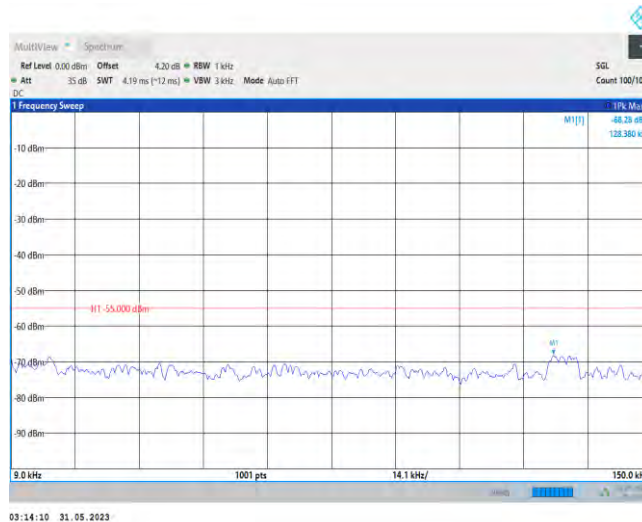
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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

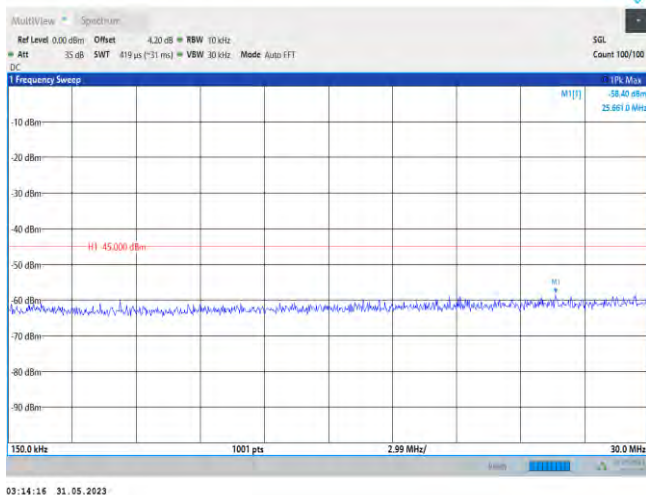


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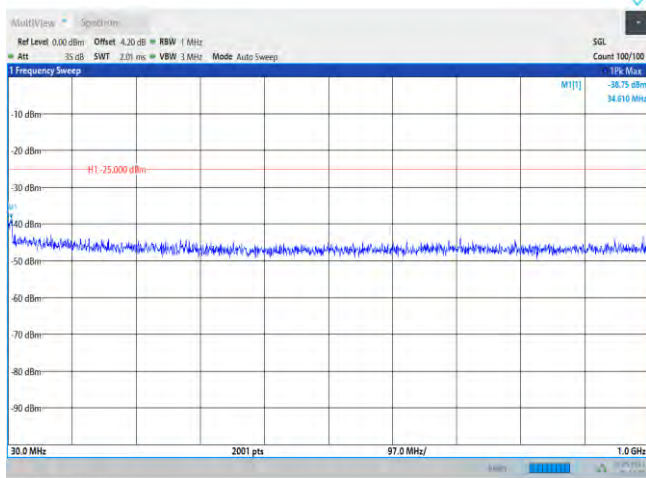
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



03:14:16 31.05.2023

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



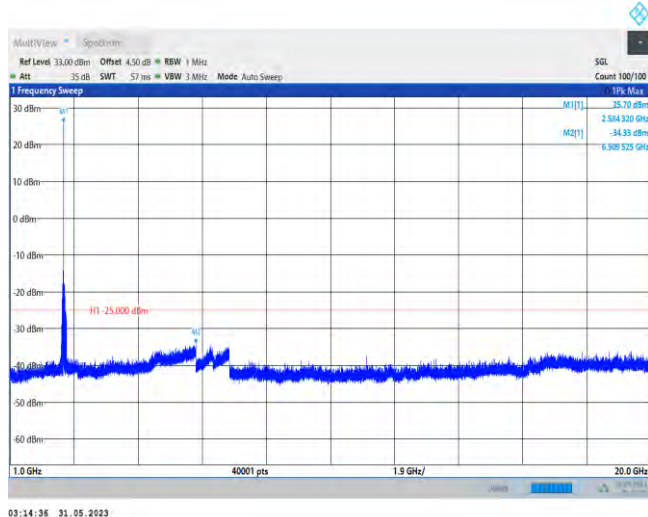
03:14:20 31.05.2023



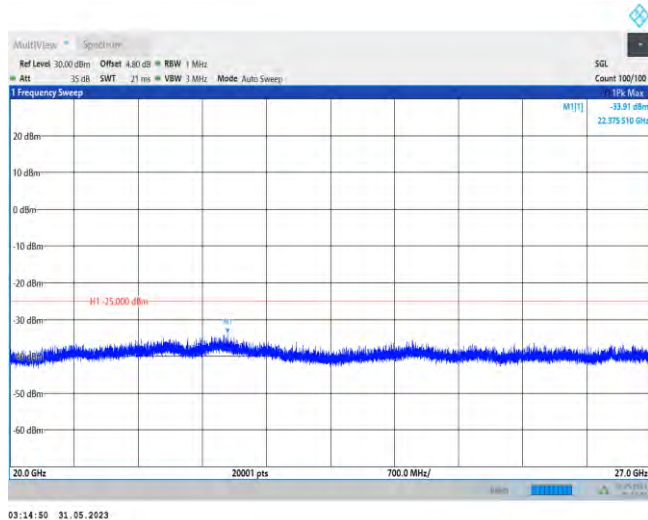
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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

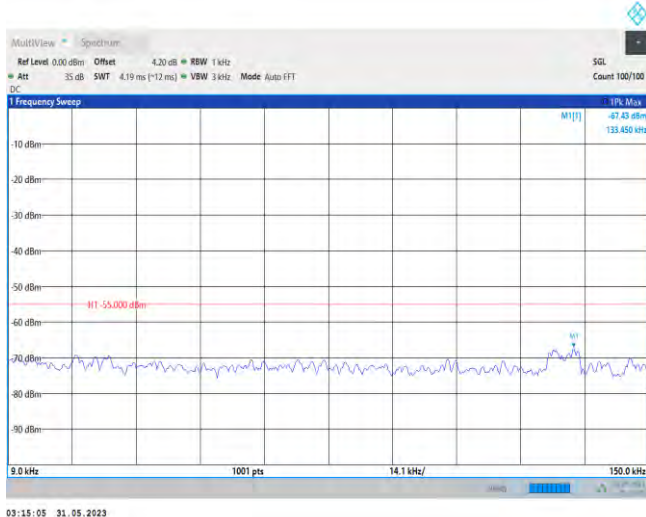


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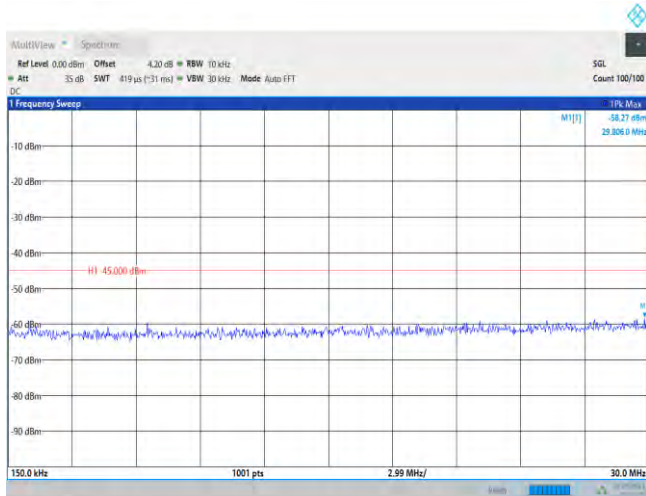
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



03:15:05 31.05.2023

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



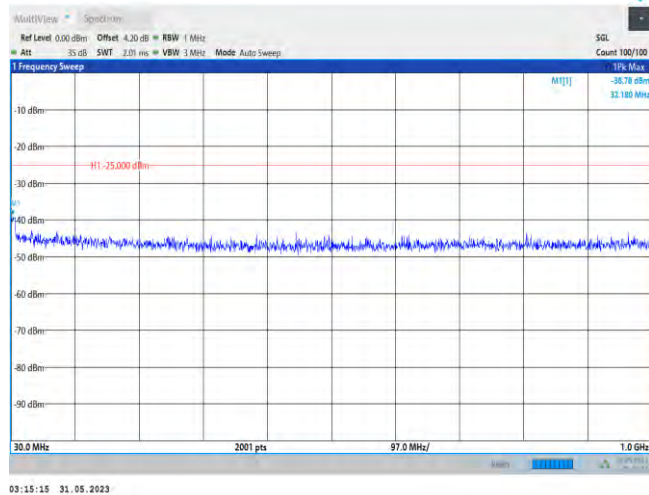
03:15:11 31.05.2023



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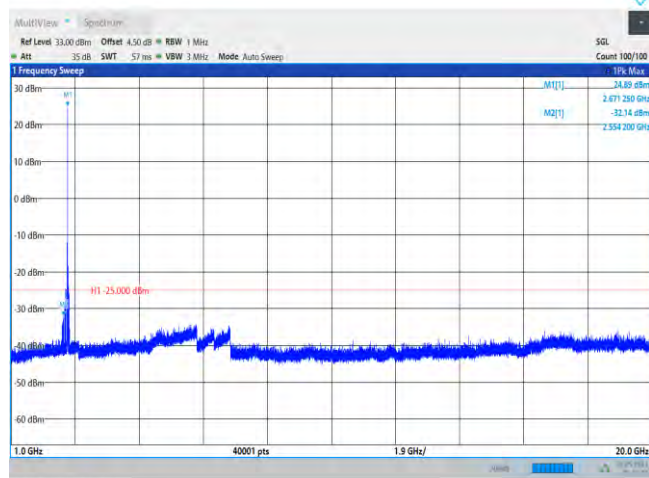
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



03:15:15 31.05.2023

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



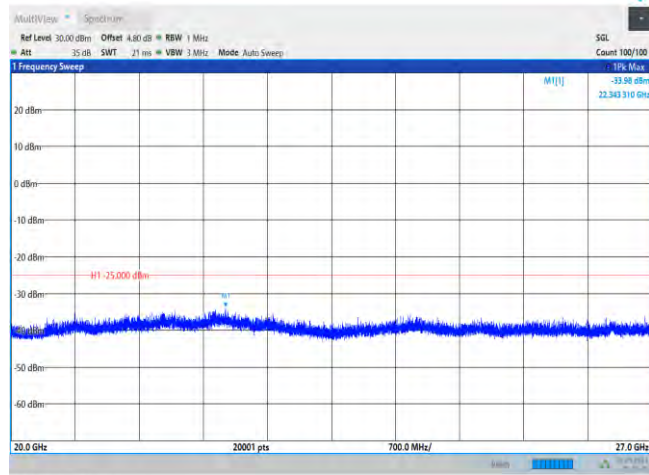
03:15:31 31.05.2023



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



03:15:46 31.05.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_20MHz _ TM1
 Test Channel = LOW ANT12

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	42.20	-45.63	32.86	-65.83	-25.00	40.83	122	216	Horizontal
2	7491.2700	38.75	-43.16	36.44	-63.23	-25.00	38.23	143	7	Horizontal
3	9988.3600	32.36	-39.25	38.47	-63.68	-25.00	38.68	159	360	Horizontal
4	12485.4500	26.60	-37.04	39.16	-66.54	-25.00	41.54	258	1	Horizontal
5	14982.5400	25.38	-34.64	39.26	-65.26	-25.00	40.26	147	90	Horizontal
6	17479.6300	26.96	-35.10	39.13	-64.27	-25.00	39.27	269	289	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	41.67	-45.63	32.86	-66.36	-25.00	41.36	147	324	Vertical
2	7491.2700	38.14	-43.16	36.44	-63.84	-25.00	38.84	124	54	Vertical
3	9988.3600	31.89	-39.25	38.47	-64.15	-25.00	39.15	159	270	Vertical
4	12485.4500	25.86	-37.04	39.16	-67.28	-25.00	42.28	261	90	Vertical
5	14982.5400	24.10	-34.64	39.26	-66.54	-25.00	41.54	158	2	Vertical
6	17479.6300	26.87	-35.10	39.13	-64.36	-25.00	39.36	269	18	Vertical



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Test Band = LTE Band 41_20MHz _ TM1

Test Channel = MID ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.5	45.01	-46.25	29.52	-66.98	-25.00	41.98	211	178	Horizontal
2	5168.1800	41.15	-45.31	32.97	-66.45	-25.00	41.45	187	160	Horizontal
3	7752.2700	38.52	-42.69	36.69	-62.75	-25.00	37.75	159	3	Horizontal
4	10336.3600	31.96	-39.06	38.84	-63.52	-25.00	38.52	123	55	Horizontal
5	12920.4500	27.50	-37.16	39.75	-65.16	-25.00	40.16	165	0	Horizontal
6	15504.5400	24.49	-35.35	38.57	-67.55	-25.00	42.55	258	342	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3951	44.49	-46.16	30.68	-66.24	-25.00	41.24	258	36	Vertical
2	5168.1800	41.48	-45.31	32.97	-66.12	-25.00	41.12	147	273	Vertical
3	7752.2700	38.21	-42.69	36.69	-63.06	-25.00	38.06	156	197	Vertical
4	10336.3600	30.73	-39.06	38.84	-64.75	-25.00	39.75	214	357	Vertical
5	12920.4500	27.94	-37.16	39.75	-64.72	-25.00	39.72	159	36	Vertical
6	15504.5400	24.79	-35.35	38.57	-67.25	-25.00	42.25	132	218	Vertical



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Test Band = LTE Band 41_20MHz _ TM1
Test Channel = HIGH ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4246	43.89	-45.66	31.19	-65.84	-25.00	40.84	287	254	Horizontal
2	5342.1800	40.19	-45.18	32.85	-67.39	-25.00	42.39	145	178	Horizontal
3	8013.2700	37.73	-42.22	37.01	-62.73	-25.00	37.73	266	164	Horizontal
4	10684.3600	29.48	-37.97	39.13	-64.62	-25.00	39.62	295	270	Horizontal
5	13355.4500	25.88	-36.56	40.10	-65.84	-25.00	40.84	132	324	Horizontal
6	16026.5400	26.04	-34.85	37.83	-66.25	-25.00	41.25	154	269	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4278.5	43.45	-45.59	31.26	-66.14	-25.00	41.14	188	360	Vertical
2	5342.1800	40.46	-45.18	32.85	-67.12	-25.00	42.12	145	160	Vertical
3	8013.2700	37.54	-42.22	37.01	-62.92	-25.00	37.92	159	34	Vertical
4	10684.3600	29.11	-37.97	39.13	-64.99	-25.00	39.99	132	181	Vertical
5	13355.4500	26.36	-36.56	40.10	-65.36	-25.00	40.36	165	306	Vertical
6	16026.5400	26.29	-34.85	37.83	-66.00	-25.00	41.00	226	179	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	-1.00	-0.000386	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-2.60	-0.001003	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-3.70	-0.001427	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-2.40	-0.000926	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-0.90	-0.000347	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-3.80	-0.001465	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-0.50	-0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-0.30	-0.000116	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-3.60	-0.001388	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.90	-0.000347	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-2.50	-0.000964	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-2.10	-0.000810	PASS

---End of Attachment---



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