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Rev.: 01
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Appendix B.15

LTE Band 41(2496-2690)



SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.36	27.36	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.42	27.42	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.44	27.44	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.49	26.49	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.50	27.5	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.54	27.54	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.49	27.49	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.57	26.57	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.62	27.62	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.66	27.66	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.69	27.69	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.73	26.73	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.41	26.41	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.46	26.46	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.51	26.51	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.44	25.44	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.53	26.53	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.60	26.6	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.56	26.56	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.56	25.56	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.67	26.67	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.73	26.73	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.77	26.77	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.74	25.74	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	21.00	25	33	PASS



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Band41	5MHz	64QAM	39675	1RB#12	21.05	25.05	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	21.11	25.11	33	PASS
Band41	5MHz	64QAM	39675	25RB#0	20.47	24.47	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	21.14	25.14	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	21.19	25.19	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.15	25.15	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	20.62	24.62	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.31	25.31	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.32	25.32	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.37	25.37	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	20.76	24.76	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.38	27.38	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.45	27.45	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.49	27.49	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.52	26.52	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.52	27.52	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.56	27.56	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.54	27.54	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.58	26.58	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.68	27.68	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.67	27.67	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.72	27.72	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.73	26.73	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.46	26.46	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.49	26.49	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.52	26.52	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.51	25.51	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.58	26.58	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.61	26.61	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.59	26.59	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.61	25.61	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.72	26.72	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.71	26.71	33	PASS



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Band41	10MHz	16QAM	41540	50RB#0	21.76	25.76	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	21.04	25.04	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	21.07	25.07	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	21.13	25.13	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	20.49	24.49	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	21.15	25.15	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	21.21	25.21	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.21	25.21	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	20.58	24.58	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	21.32	25.32	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.32	25.32	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	21.38	25.38	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	20.74	24.74	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.43	27.43	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.45	27.45	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.45	27.45	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.51	26.51	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.52	27.52	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.58	27.58	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.60	27.6	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.61	26.61	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.69	27.69	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.67	27.67	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.73	27.73	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.72	26.72	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.48	26.48	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.50	26.5	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.50	26.5	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.51	25.51	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.60	26.6	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.64	26.64	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.67	26.67	33	PASS



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Band41	15MHz	16QAM	40620	75RB#0	21.62	25.62	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.73	26.73	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.70	26.7	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.76	26.76	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.75	25.75	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	21.08	25.08	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	21.08	25.08	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	21.09	25.09	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	20.51	24.51	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.20	25.2	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.23	25.23	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	21.29	25.29	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	20.60	24.6	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	21.33	25.33	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	21.35	25.35	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	21.38	25.38	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	20.75	24.75	33	PASS
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Band41	20MHz	QPSK	39750	1RB#49	23.45	27.45	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.39	27.39	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.51	26.51	33	PASS
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Band41	20MHz	QPSK	40620	1RB#49	23.57	27.57	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.61	27.61	33	PASS
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Band41	20MHz	QPSK	41490	1RB#49	23.63	27.63	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.73	27.73	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.73	26.73	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.55	26.55	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.49	26.49	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.43	26.43	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.52	25.52	33	PASS



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Band41	20MHz	16QAM	40620	1RB#49	22.63	26.63	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.65	26.65	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.64	25.64	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.84	26.84	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.71	26.71	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.80	26.8	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.73	25.73	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	21.11	25.11	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	21.09	25.09	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	21.01	25.01	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	20.49	24.49	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	21.22	25.22	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.21	25.21	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.24	25.24	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	20.63	24.63	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	21.42	25.42	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	21.32	25.32	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	21.39	25.39	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	20.74	24.74	33	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	7.30	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.48	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.22	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.04	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.10	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.18	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.36	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.56	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.40	13	PASS

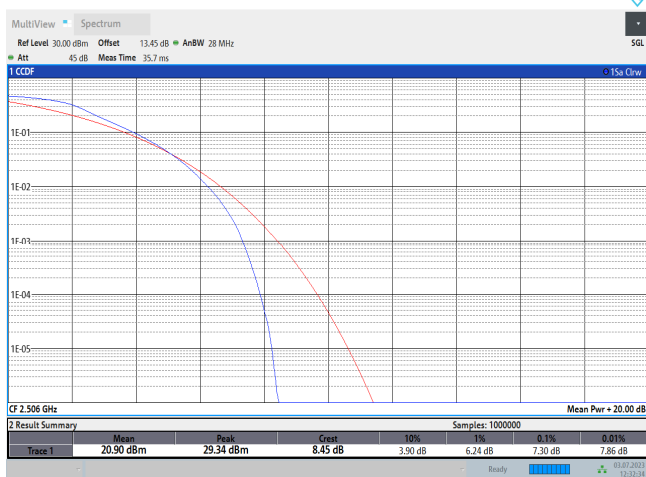


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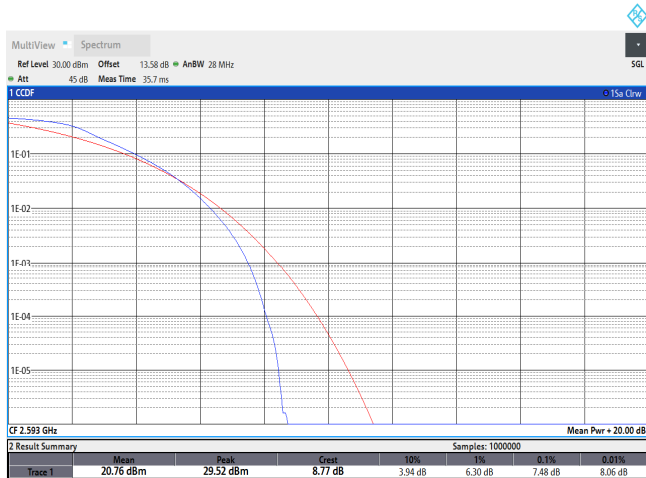
Test Graphs

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



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

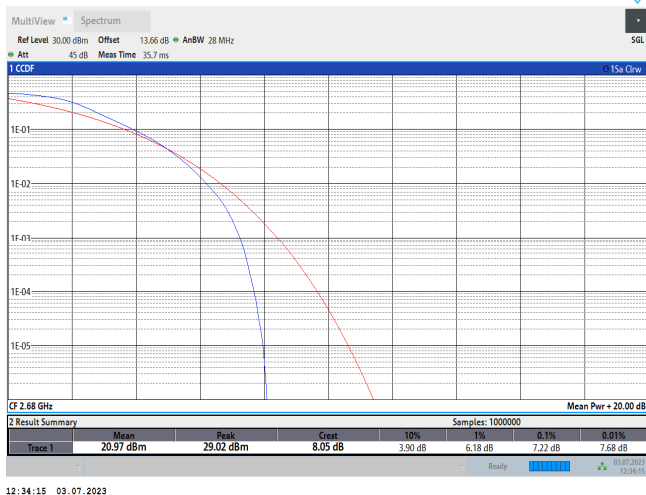


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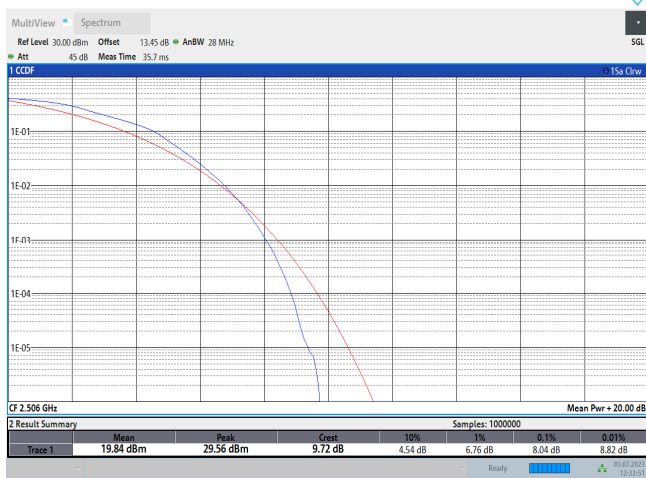
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Band41-20MHz-QPSK-41490-100RB#0



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



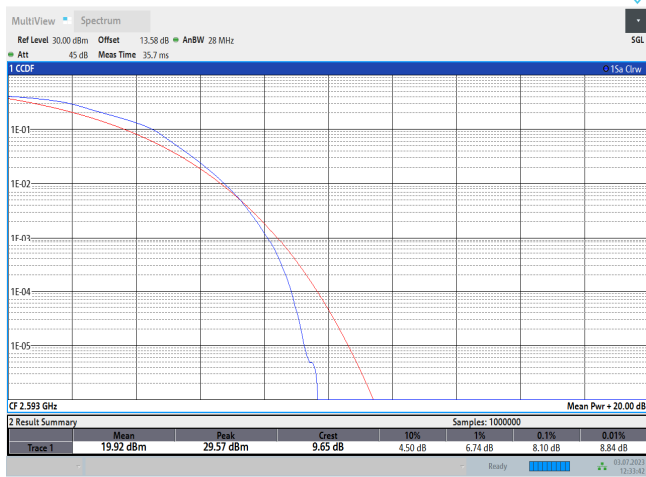
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Band41-20MHz-16QAM-40620-100RB#0



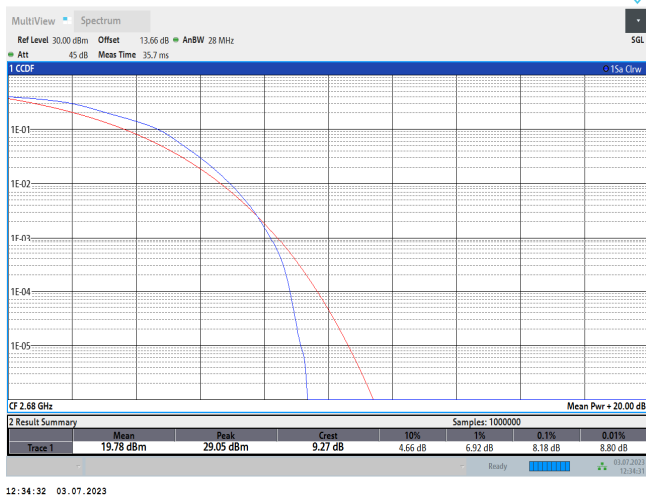
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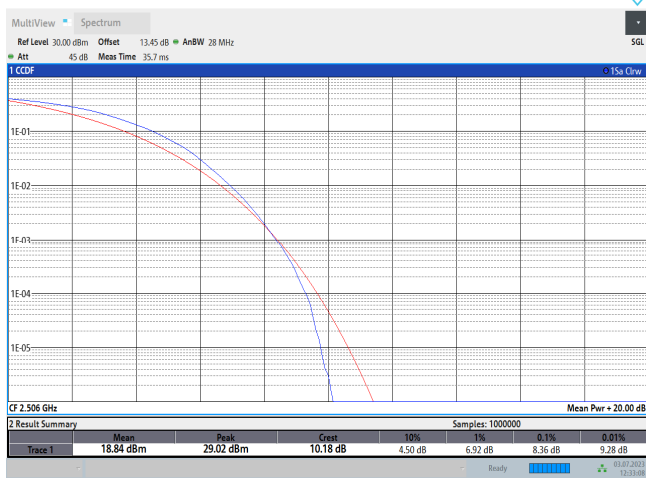
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Band41-20MHz-16QAM-41490-100RB#0



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



12:33:08 03.07.2023



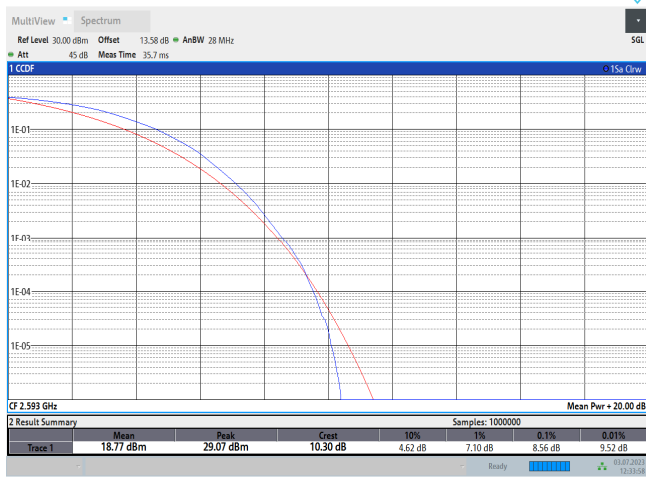
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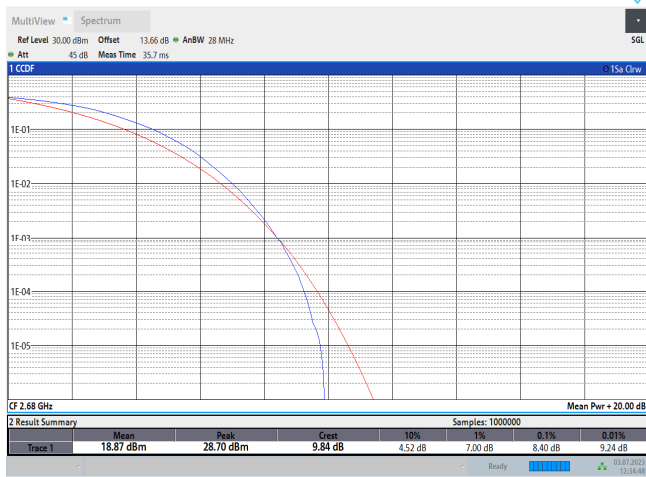
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Band41-20MHz-64QAM-41490-100RB#0



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Modulation Characteristics

Test Result

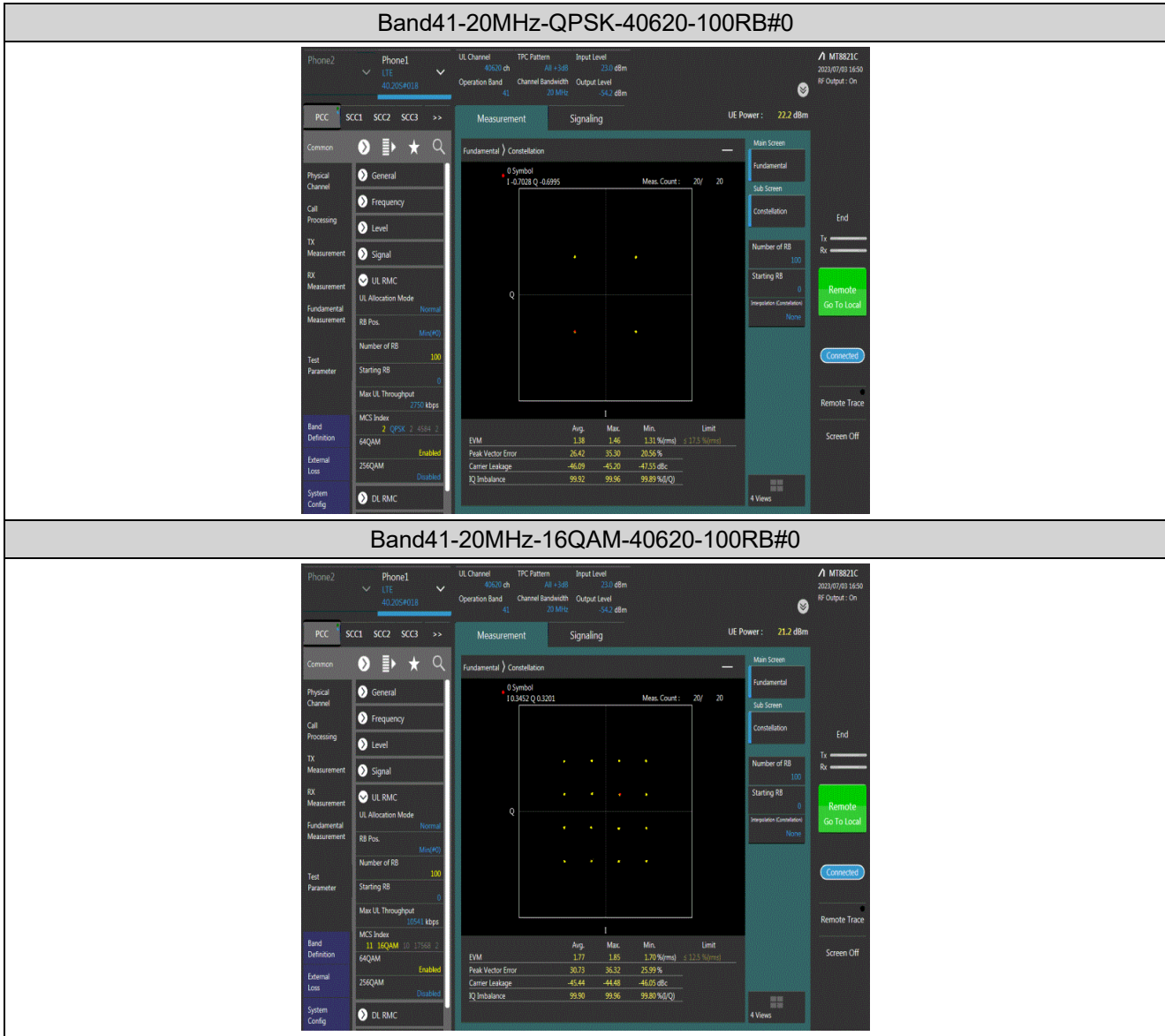
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS



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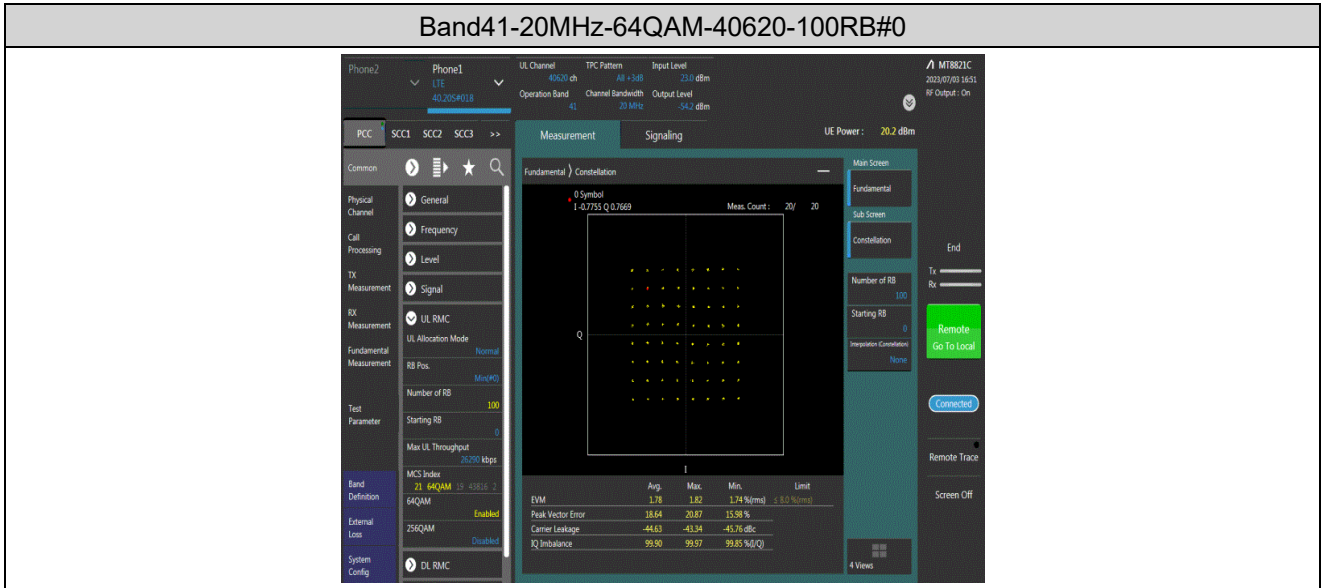
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.49	4.83	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.476	4.87	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.472	4.89	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.474	4.89	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.467	4.87	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.47	4.90	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.479	4.88	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.478	4.88	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.474	4.88	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.933	9.70	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.936	9.66	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.913	9.66	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.915	9.66	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.917	9.62	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.918	9.62	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.932	9.66	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.933	9.64	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.92	9.60	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.474	14.85	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.477	14.88	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.478	14.85	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.457	14.88	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.45	14.91	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.455	14.88	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.43	14.79	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.432	14.76	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.423	14.76	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.904	19.44	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.912	19.44	PASS



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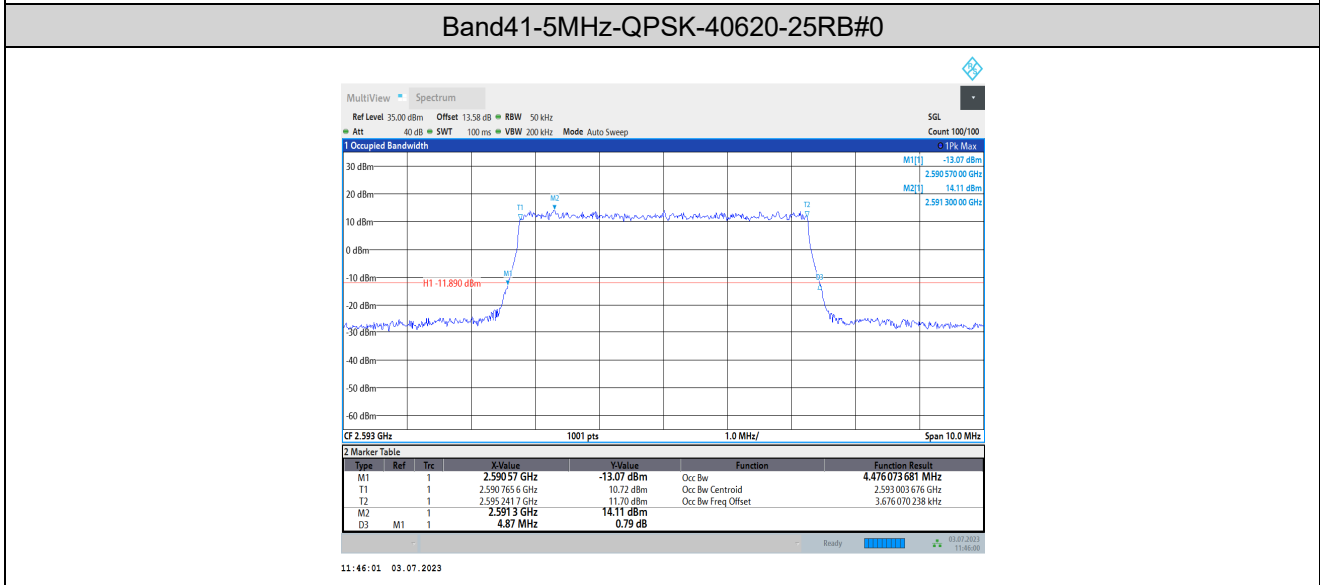
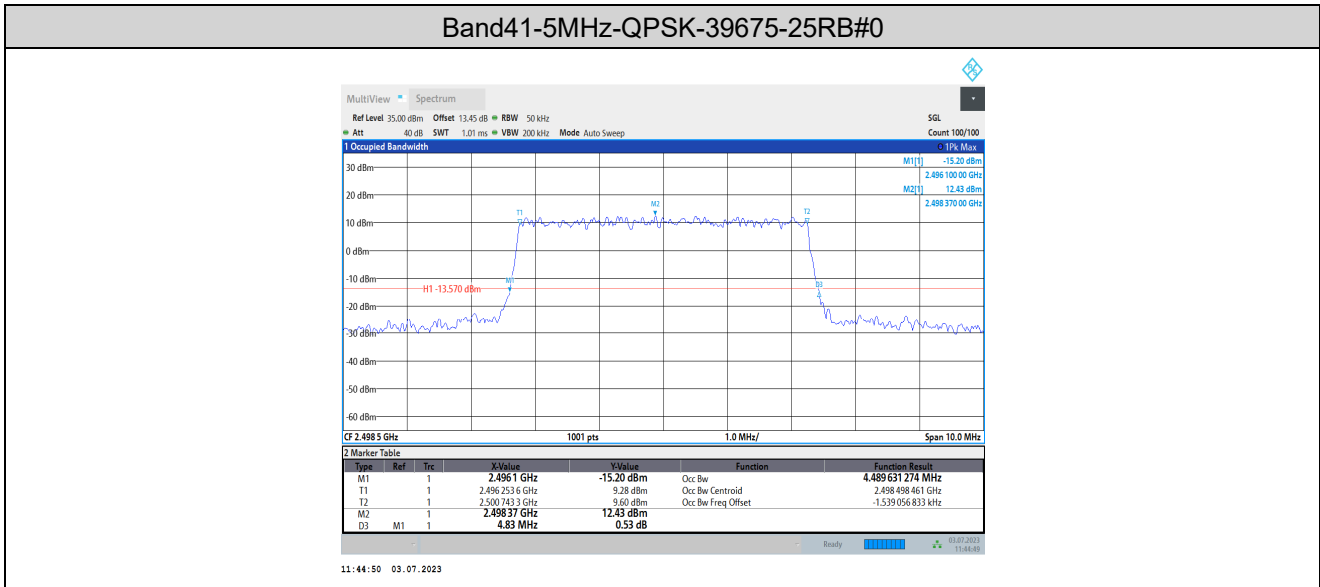
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Band41	20MHz	16QAM	39750	100RB#0	17.877	19.36	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.887	19.40	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.852	19.24	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.875	19.48	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.88	19.48	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.831	19.40	PASS



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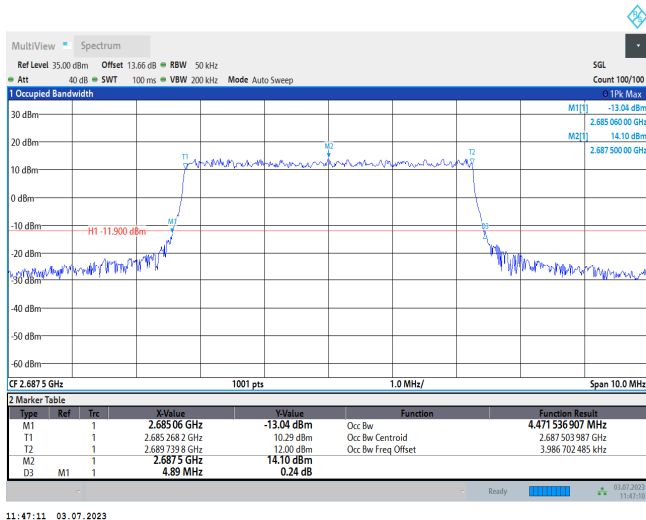
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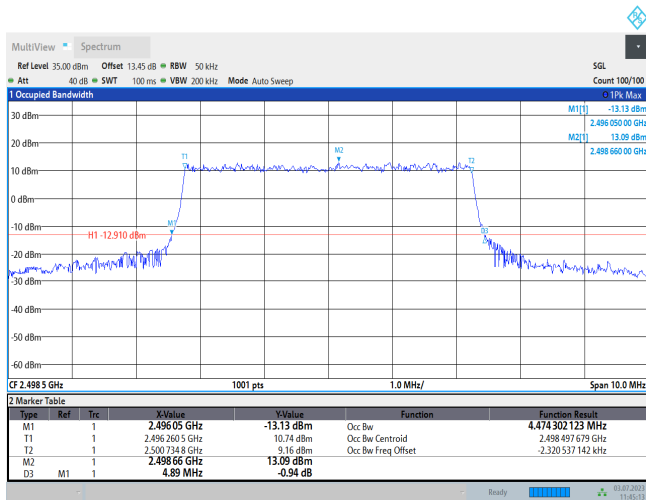
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Band41-5MHz-QPSK-41565-25RB#0



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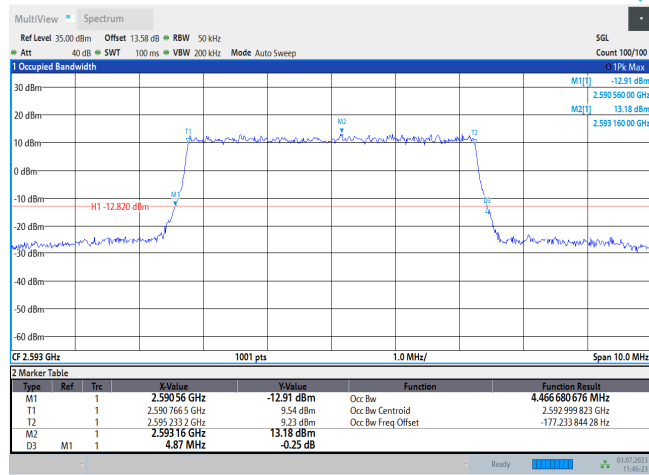
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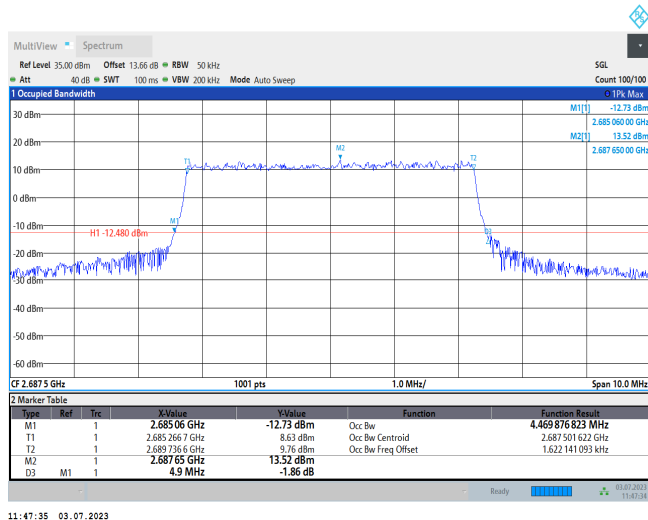
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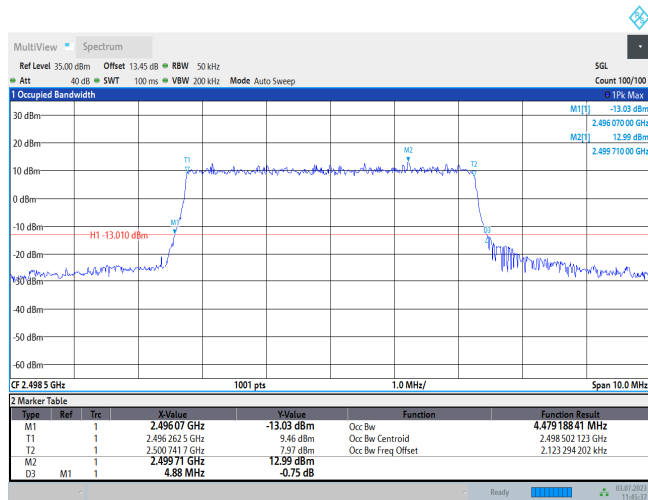
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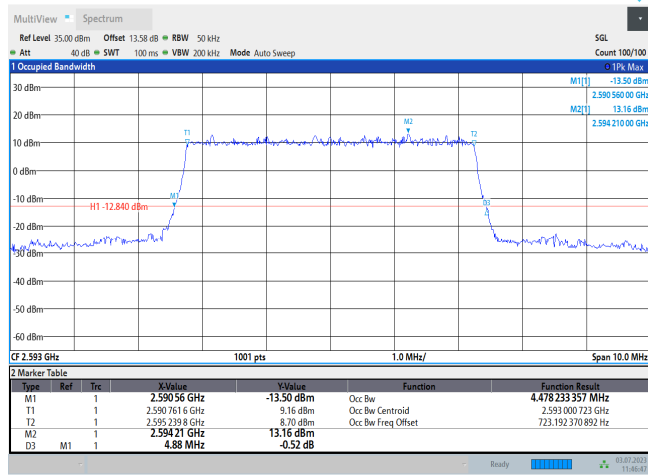
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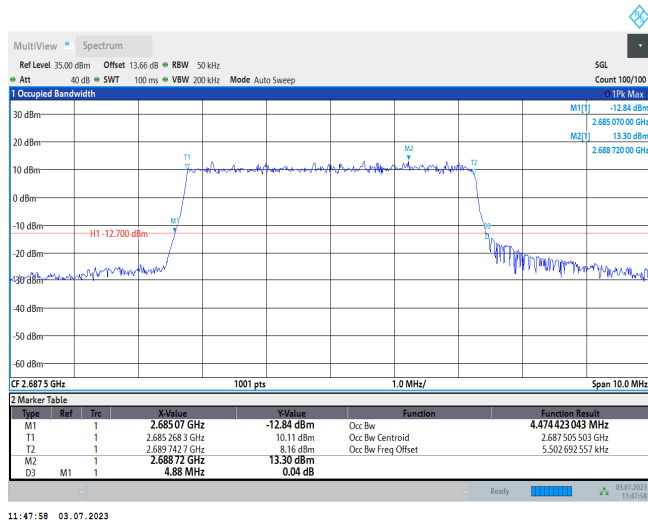
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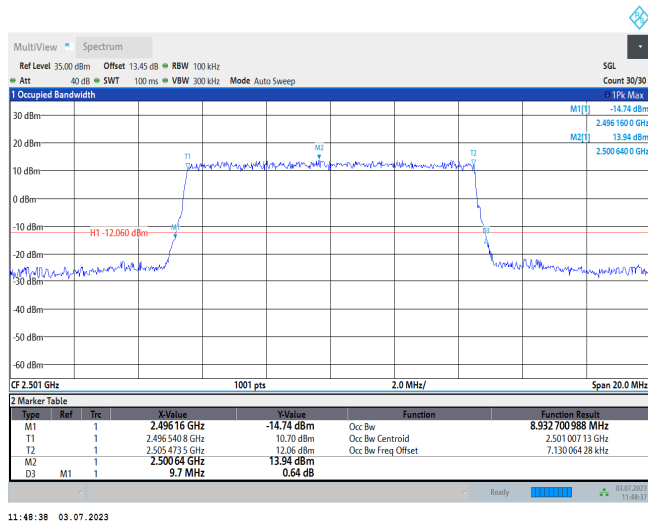
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Band41-5MHz-64QAM-41565-25RB#0



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

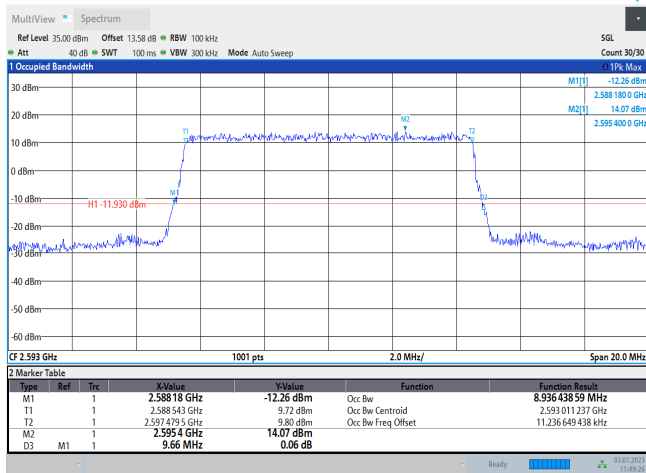


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Band41-10MHz-QPSK-40620-50RB#0



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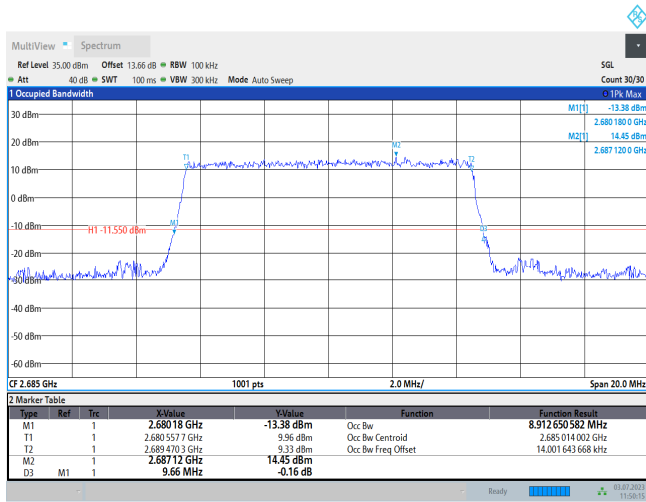
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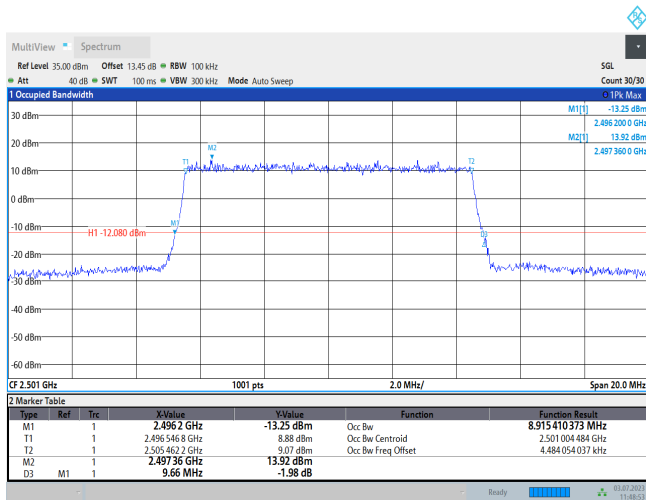
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Band41-10MHz-QPSK-41540-50RB#0



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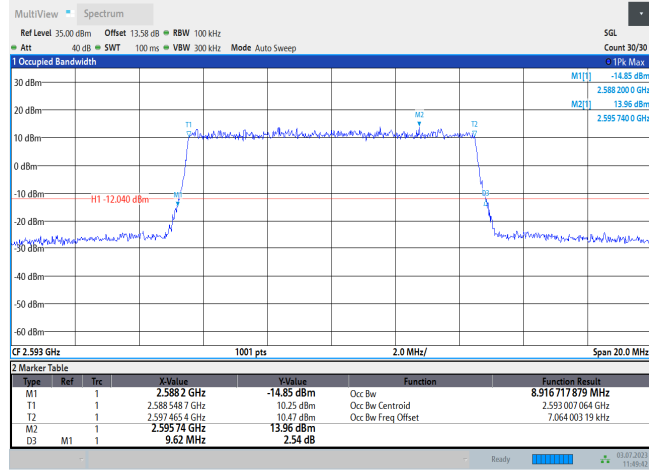
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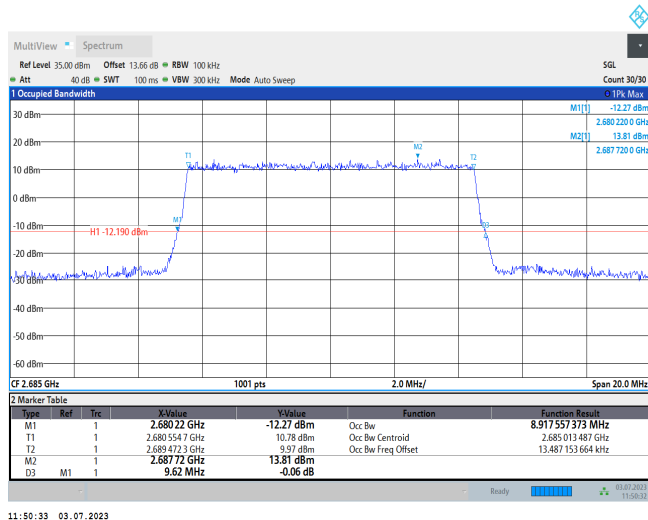
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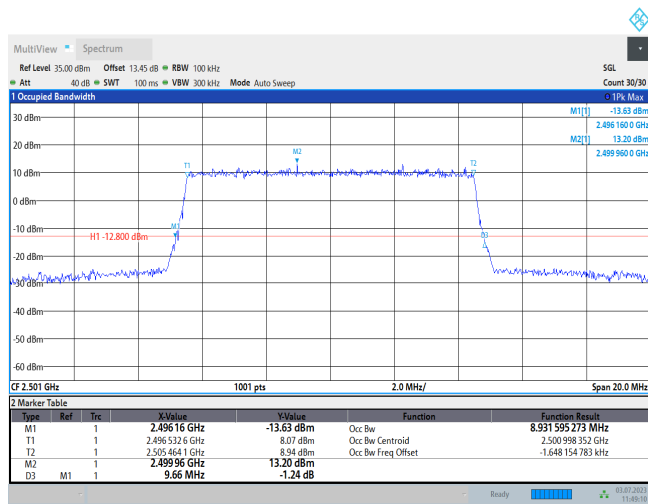
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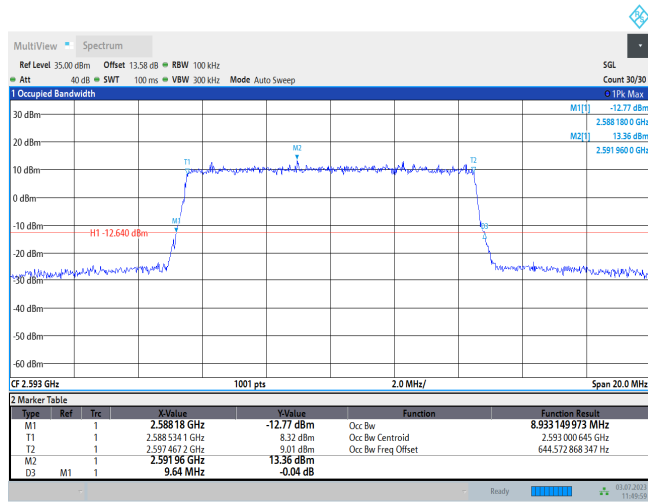
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Band41-10MHz-64QAM-40620-50RB#0



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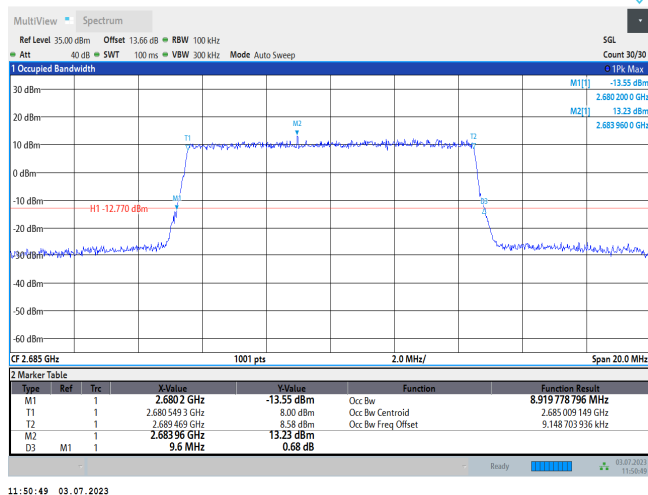
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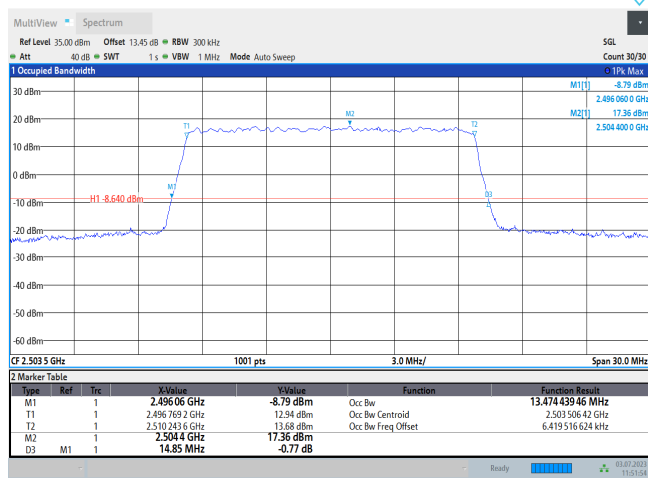
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Band41-10MHz-64QAM-41540-50RB#0



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

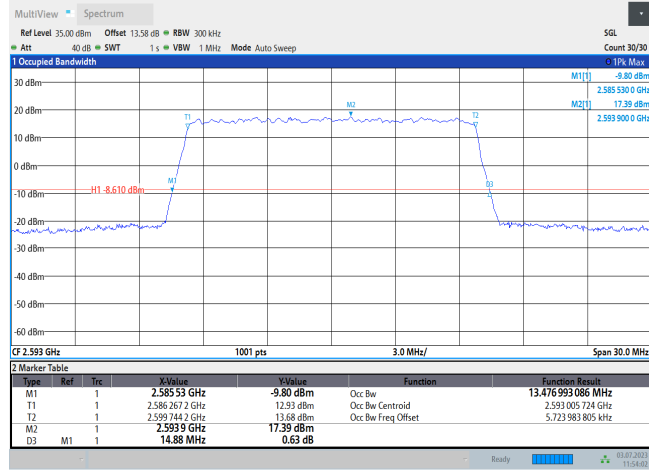


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Band41-15MHz-QPSK-40620-75RB#0



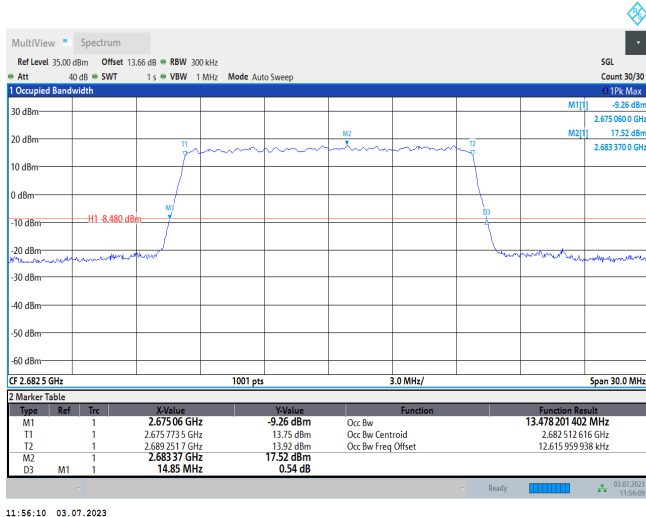
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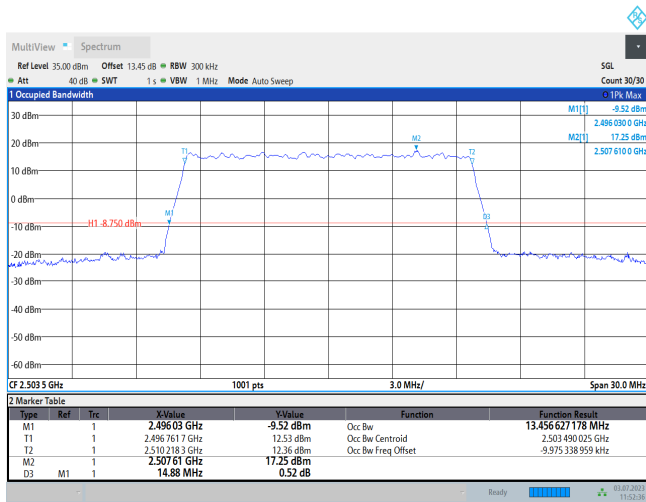
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Band41-15MHz-QPSK-41515-75RB#0



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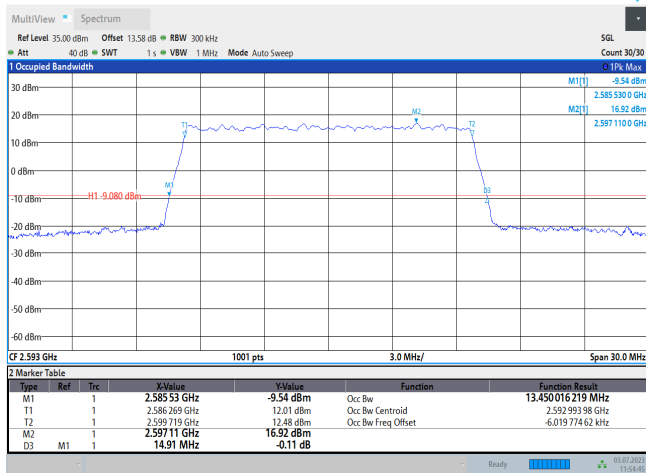
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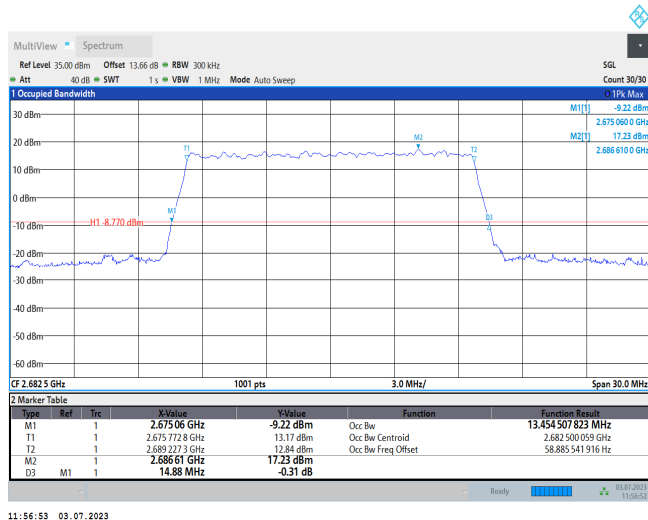
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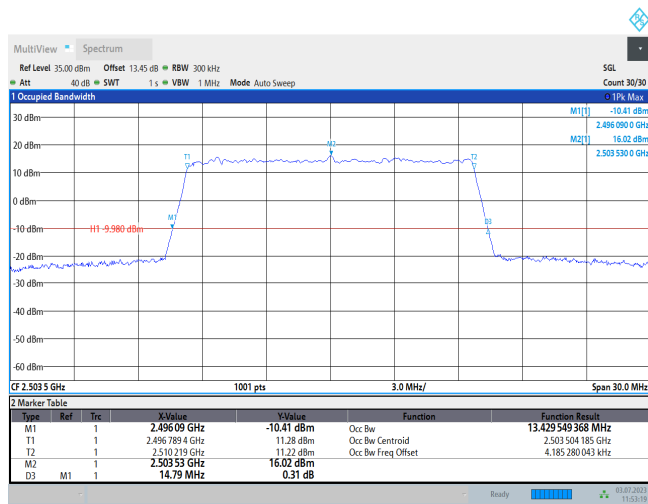
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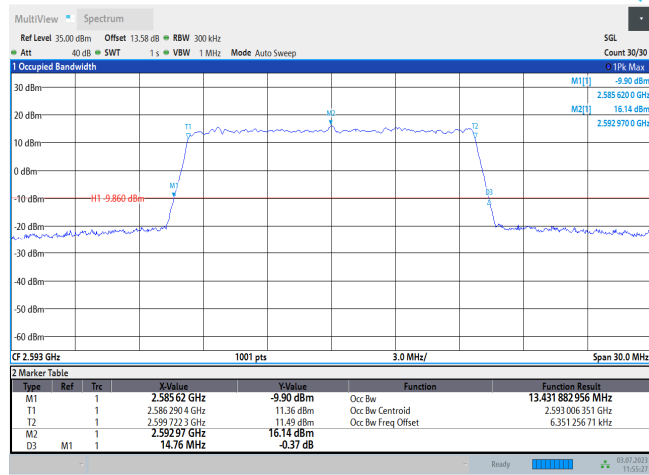
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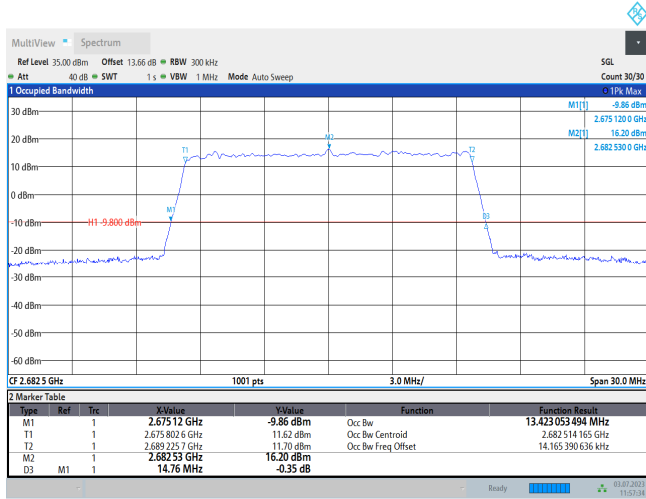


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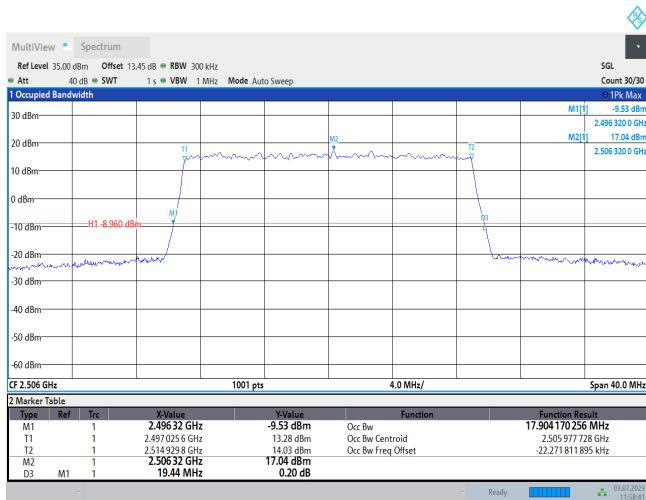
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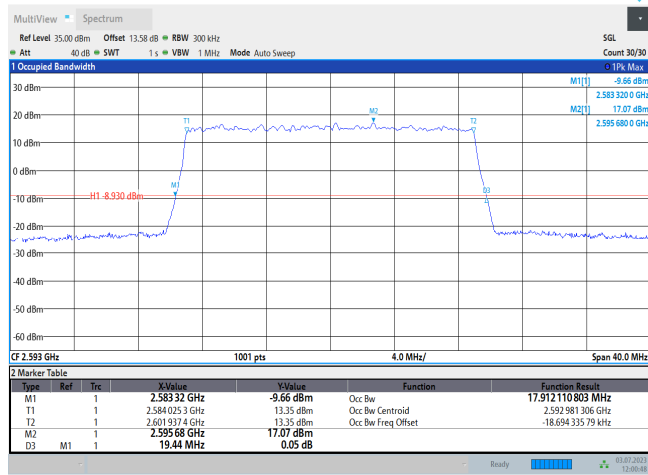


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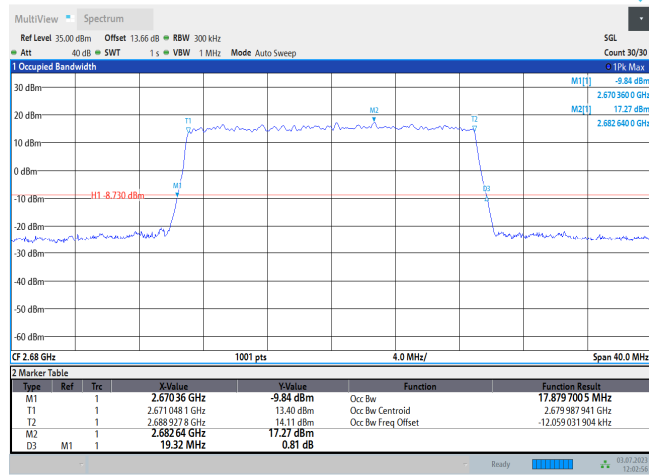


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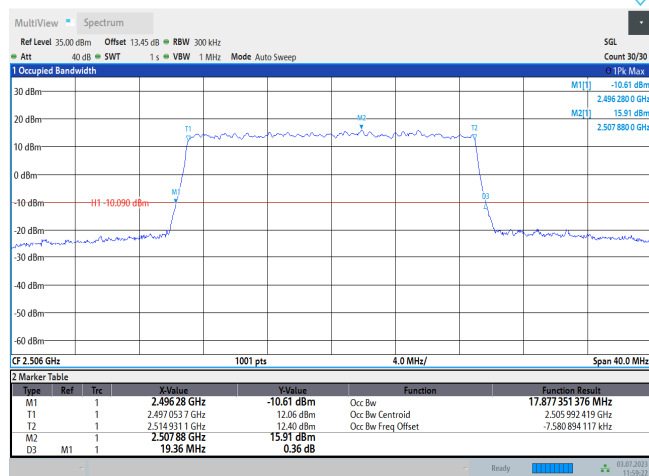
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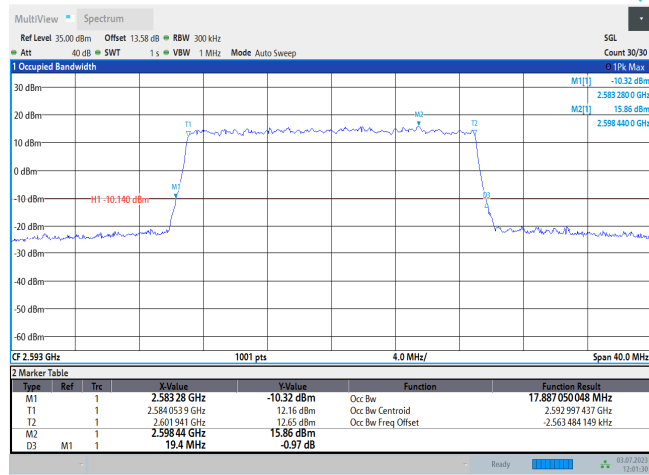


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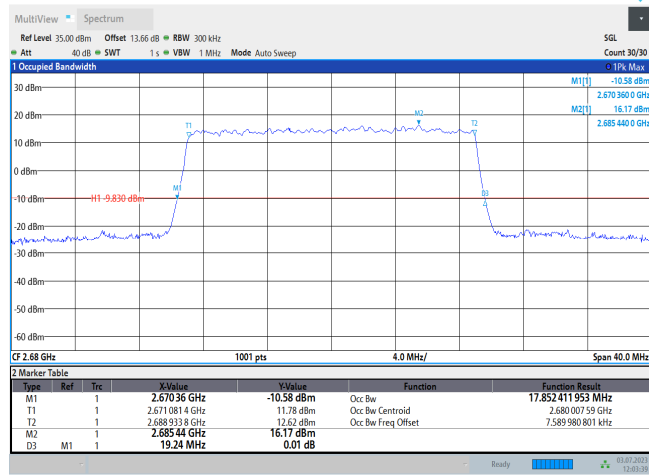
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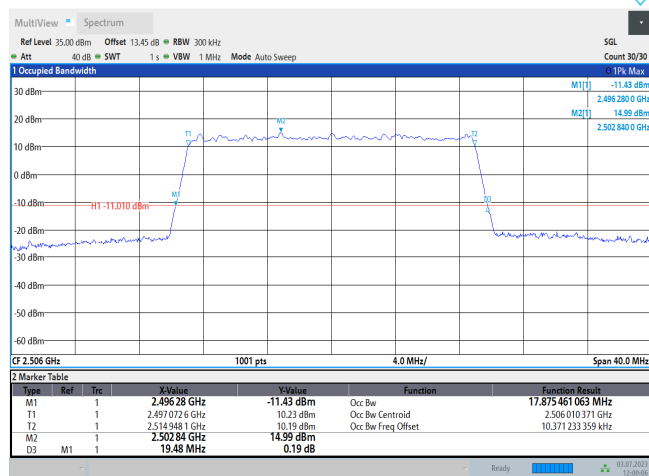
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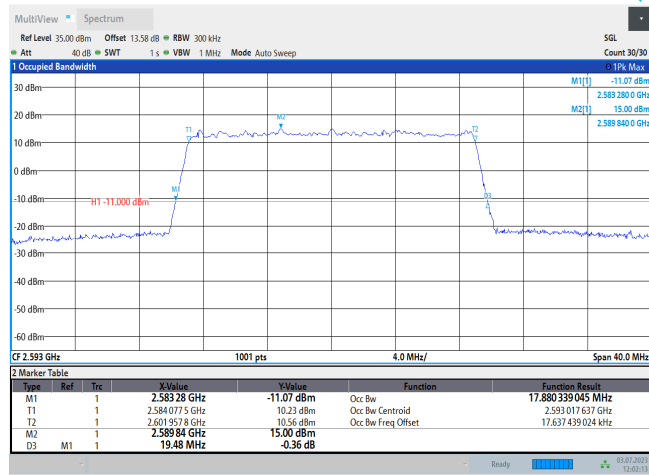


12:00:06 03.07.2023



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



12:02:14 03.07.2023

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



12:04:22 03.07.2023

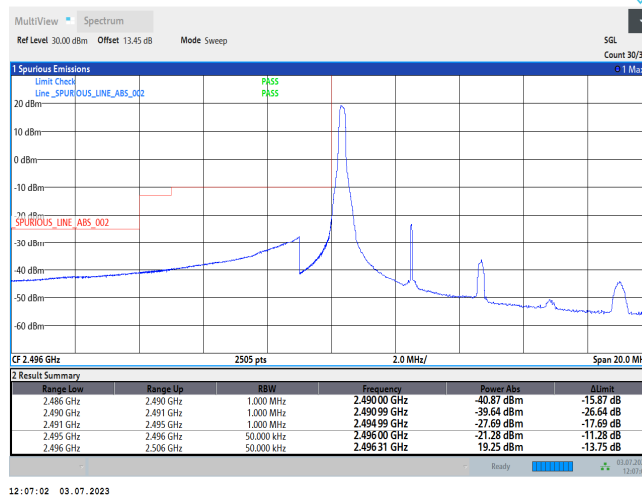


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Band Edge

Test Graphs

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



12:07:02 03.07.2023

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



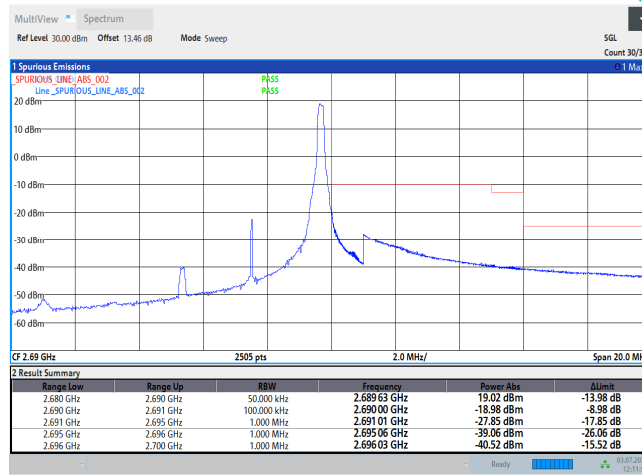
12:09:17 03.07.2023



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



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



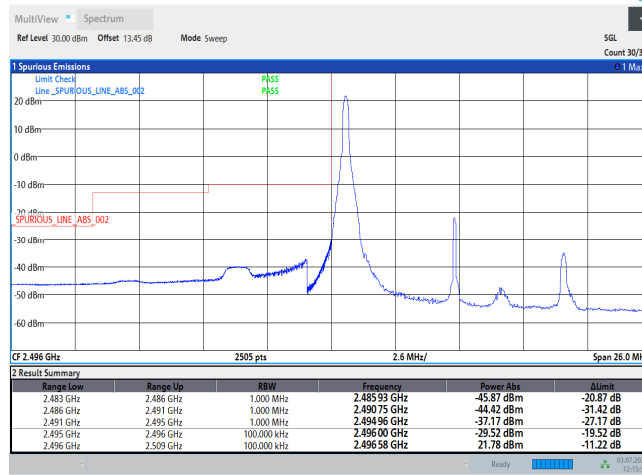
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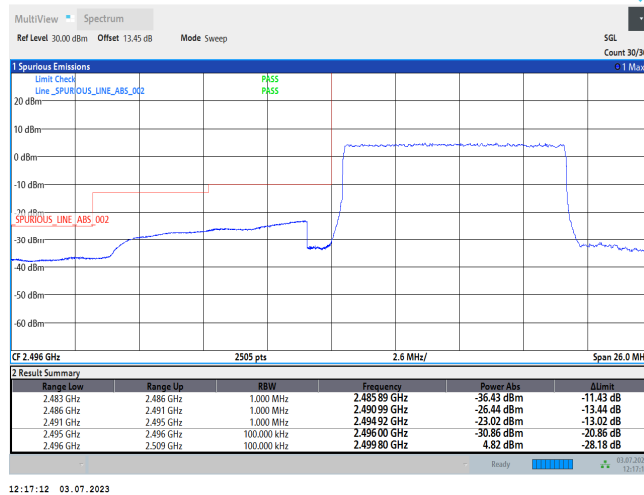
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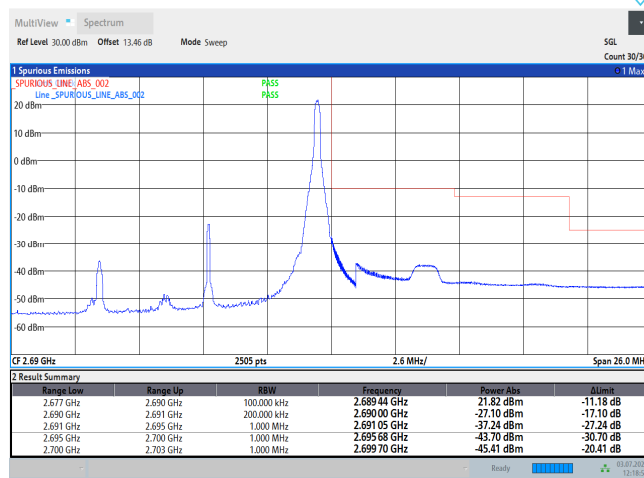


Band41-10MHz-QPSK-39700-50RB#0



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



12:18:52 03.07.2023



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

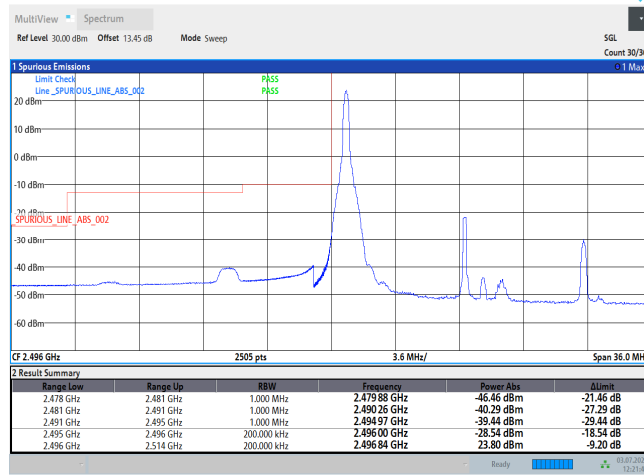


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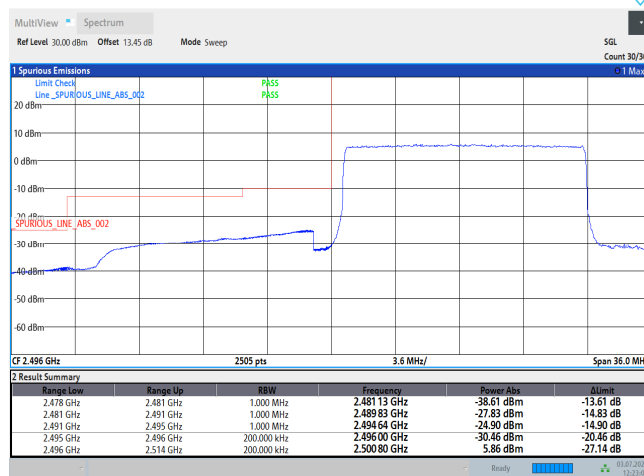
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Band41-15MHz-QPSK-39725-1RB#0



12:21:48 03.07.2023

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



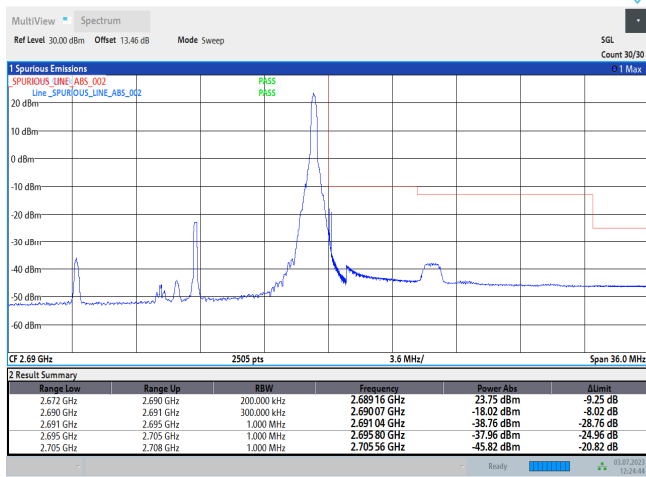
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Band41-15MHz-QPSK-41515-1RB#74



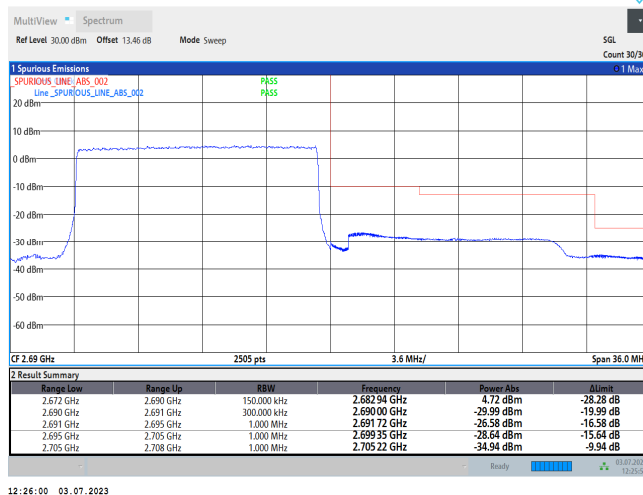
12:24:45 03.07.2023



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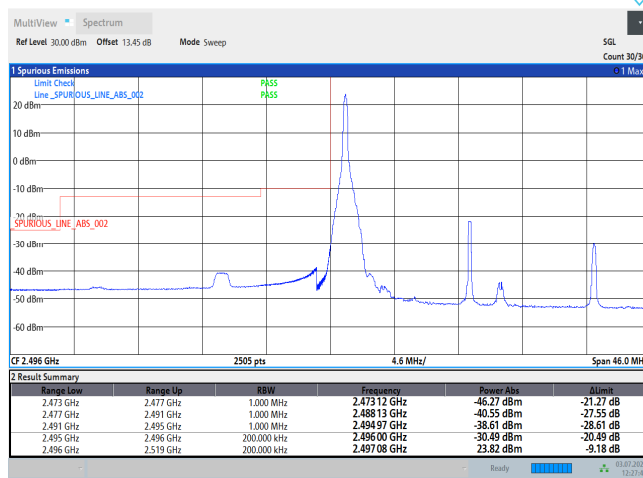
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Band41-15MHz-QPSK-41515-75RB#0



12:26:00 03.07.2023

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



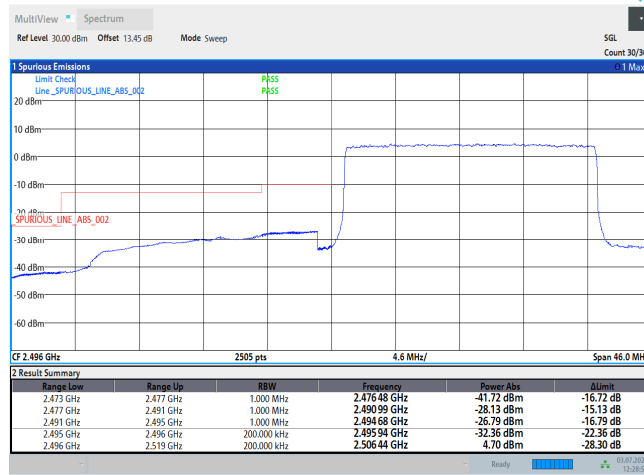
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Band41-20MHz-QPSK-39750-100RB#0

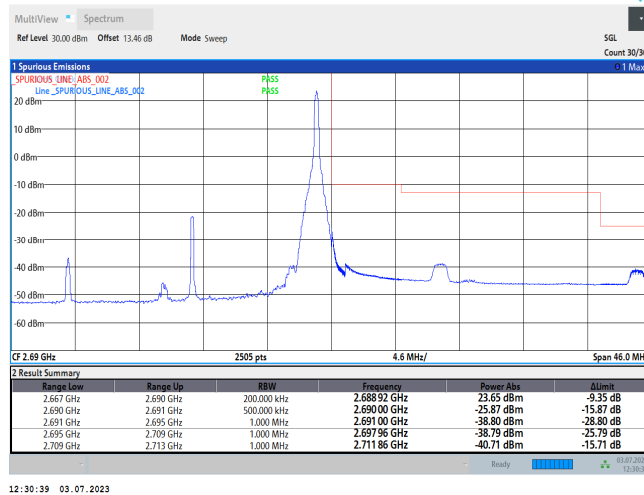


12:28:57 03.07.2023



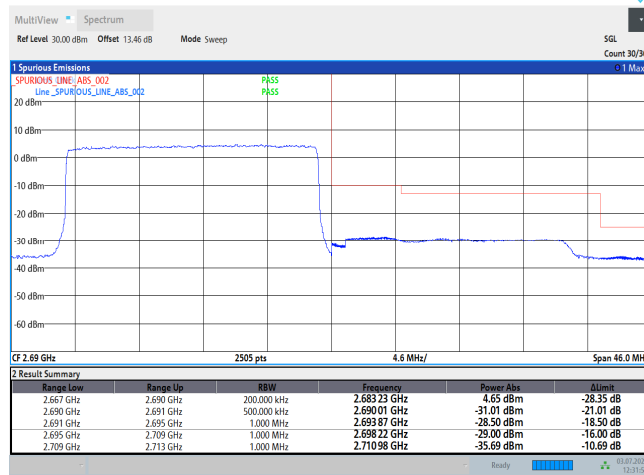
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Band41-20MHz-QPSK-41490-1RB#99



12:30:39 03.07.2023

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



12:31:54 03.07.2023



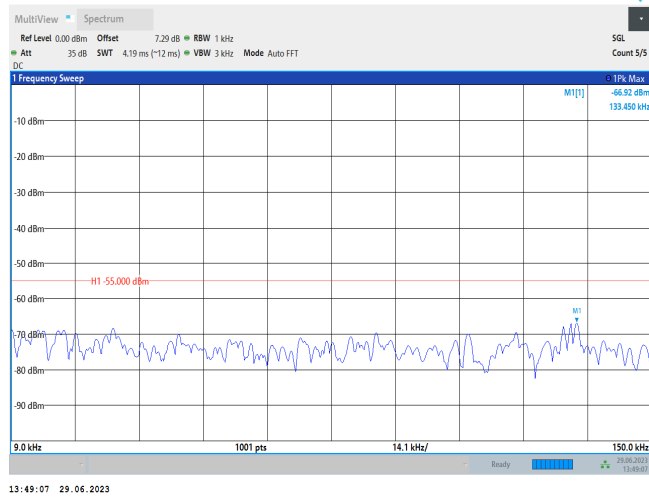
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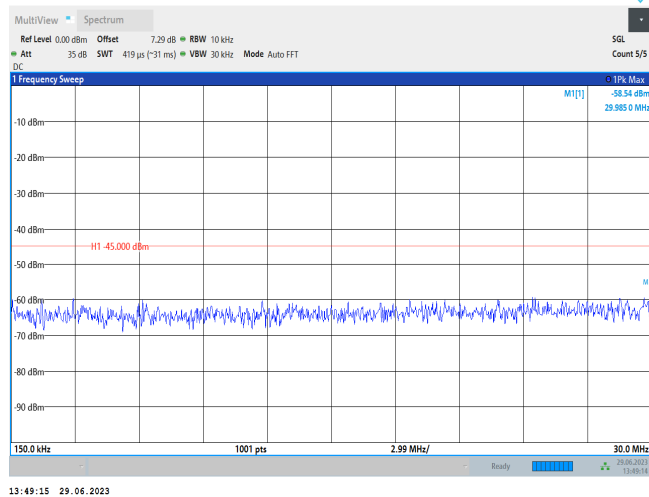
Conducted Spurious Emission

Test Graphs

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

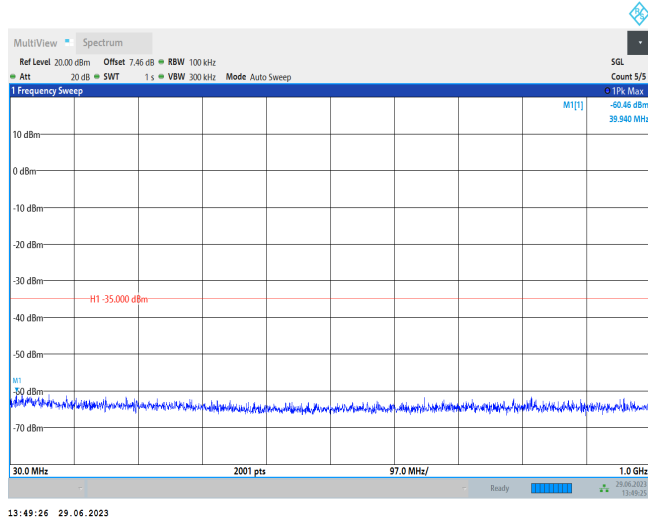


Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



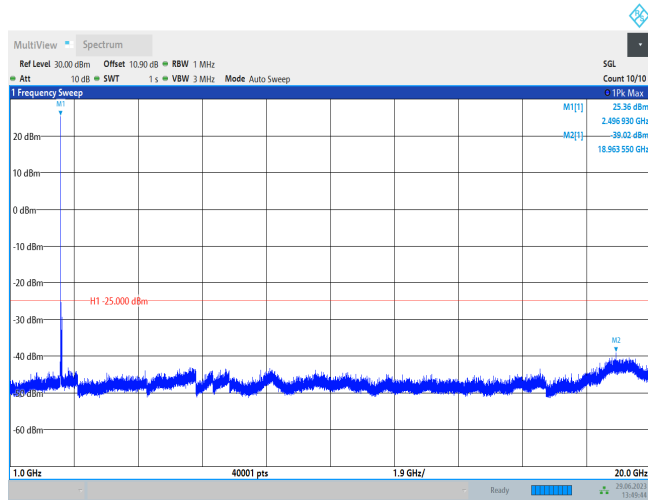
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



13:49:26 29.06.2023

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

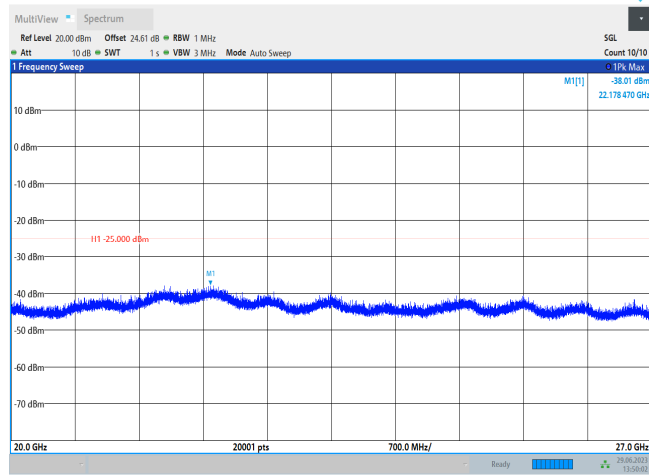


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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 | t (86-29) 6282 7885 | sgs.china@sgs.com

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

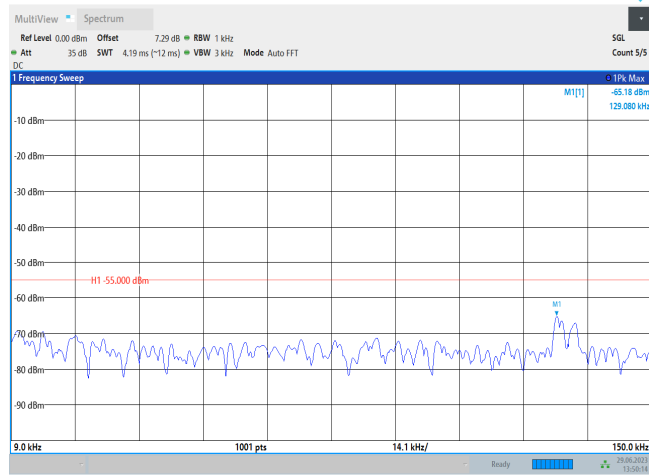


13:50:02 29.06.2023



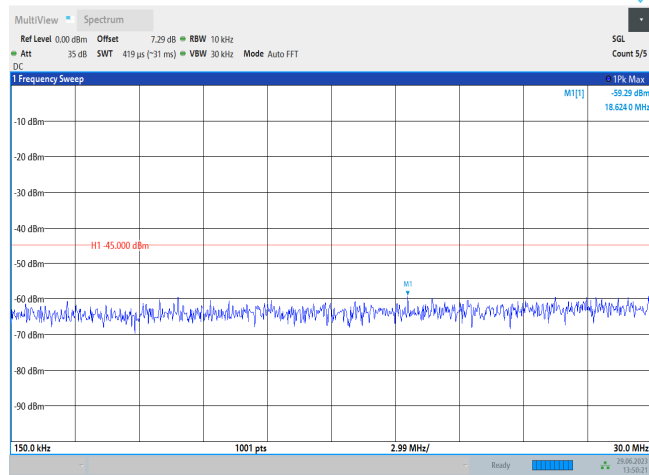
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Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



13:50:15 29.06.2023

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

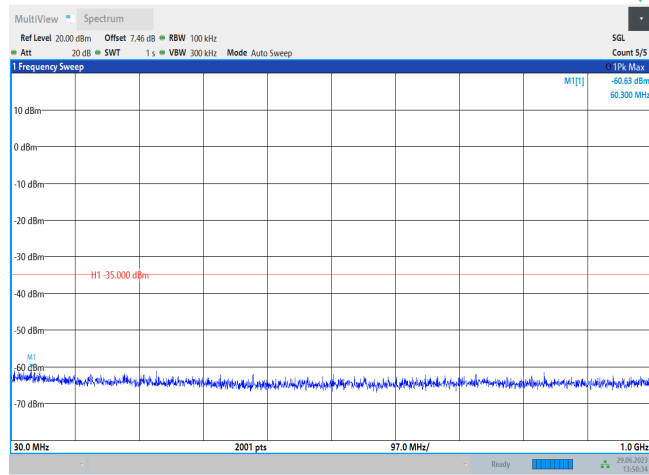


13:50:22 29.06.2023



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

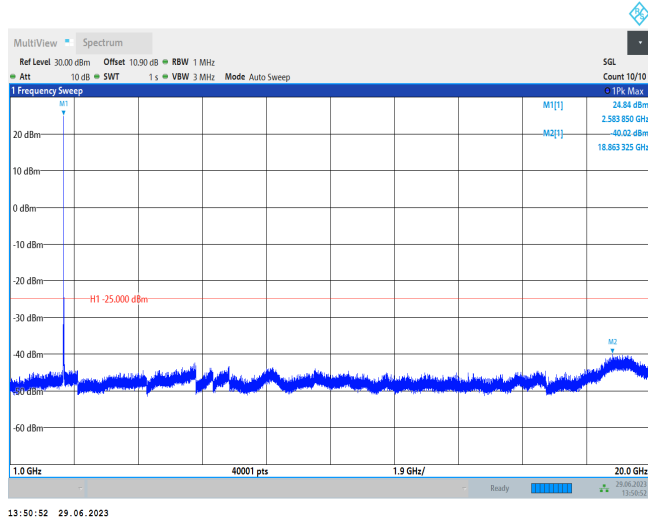


13:50:35 29.06.2023



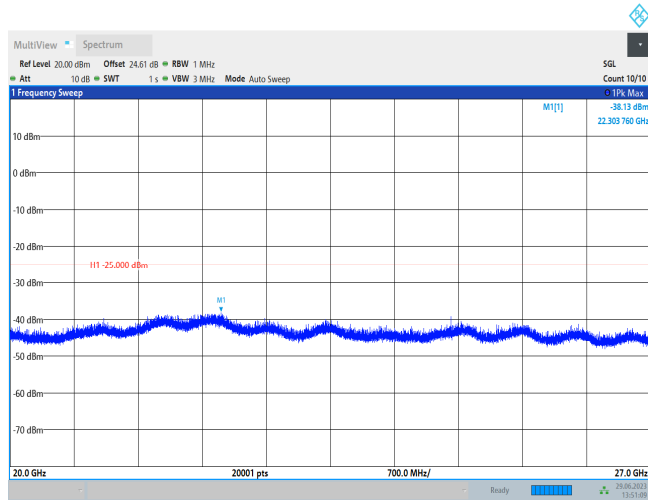
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



13:50:52 29.06.2023

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

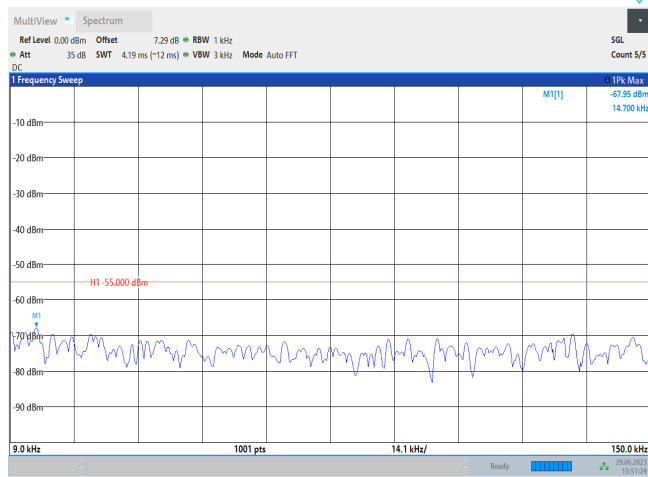


13:51:09 29.06.2023

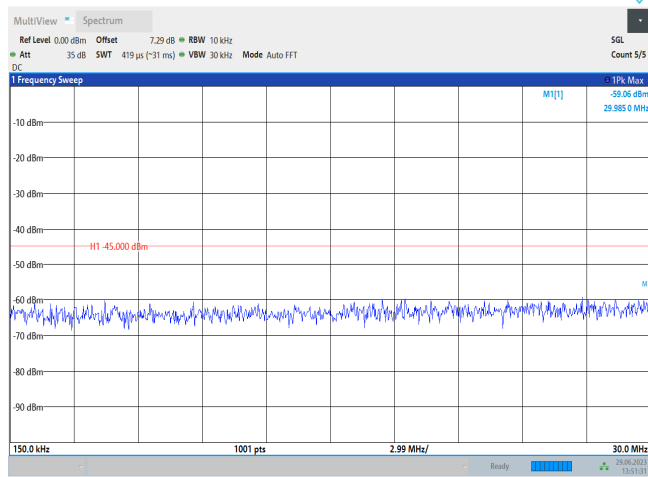


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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz

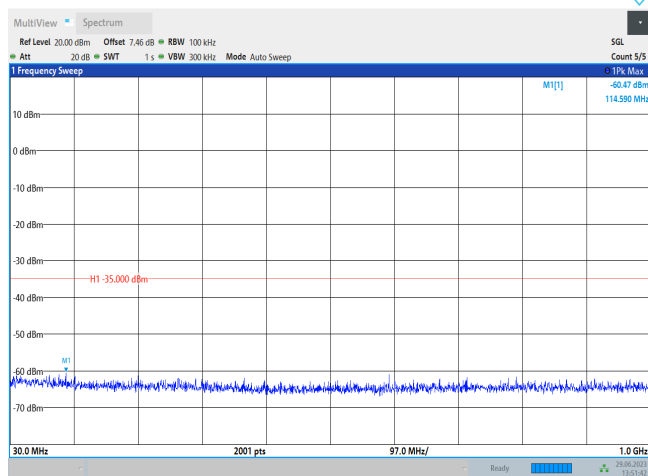


Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



13:51:31 29.06.2023

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

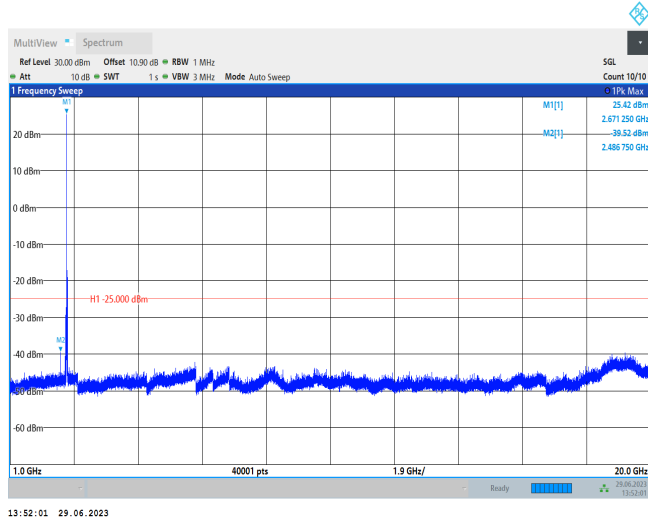


13:51:42 29.06.2023



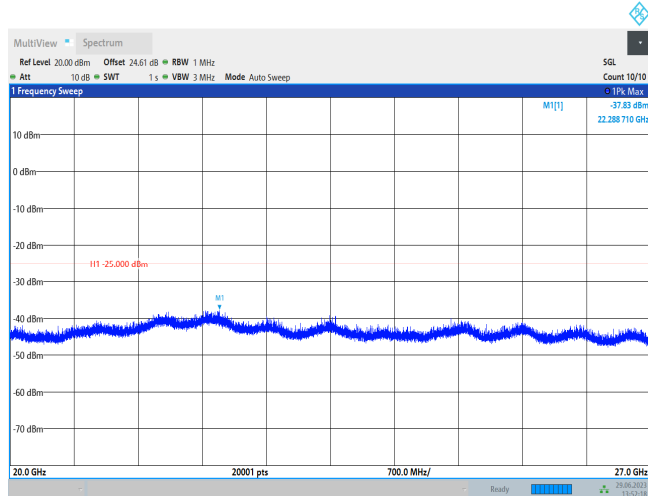
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 Wireless Laboratory

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



13:52:01 29.06.2023

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



13:52:19 29.06.2023



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Field Strength of Spurious Radiation

Test Band = LTE_41_TM1_20MHz

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2792.1991	39.48	-21.89	28.27	-49.40	-25.00	24.40	163	91	Horizontal
2	4397.4559	47.59	-43.40	30.09	-60.98	-25.00	35.98	338	61	Horizontal
3	5677.9071	47.11	-41.21	32.50	-56.86	-25.00	31.86	257	203	Horizontal
4	9487.4595	44.27	-35.93	37.72	-49.20	-25.00	24.20	192	167	Horizontal
5	13568.2227	44.07	-37.89	40.04	-49.04	-25.00	24.04	226	145	Horizontal
6	17997.5999	41.07	-43.06	48.16	-49.09	-25.00	24.09	331	319	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2829.9811	39.18	-21.86	28.30	-49.64	-25.00	24.64	348	239	Vertical
2	4195.8478	47.92	-43.58	29.58	-61.34	-25.00	36.34	229	157	Vertical
3	5692.3077	47.06	-41.16	32.50	-56.86	-25.00	31.86	365	18	Vertical
4	8474.019	44.16	-36.60	36.45	-51.25	-25.00	26.25	257	143	Vertical
5	11091.3237	44.14	-37.54	40.19	-48.47	-25.00	23.47	119	350	Vertical
6	16482.5393	42.30	-35.48	39.21	-49.23	-25.00	24.23	366	242	Vertical



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Test Band = LTE_41_TM1_20MHz

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2813.0903	39.36	-21.84	28.30	-49.44	-25.00	24.44	241	175	Horizontal
2	5167.8867	48.77	-42.54	31.84	-57.19	-25.00	32.19	222	340	Horizontal
3	8954.6382	44.05	-36.11	36.88	-50.44	-25.00	25.44	141	247	Horizontal
4	11097.3239	43.83	-37.57	40.20	-48.80	-25.00	23.80	110	64	Horizontal
5	13691.2276	43.71	-38.00	40.19	-49.36	-25.00	24.36	180	104	Horizontal
6	15197.2879	42.43	-35.40	39.72	-48.51	-25.00	23.51	195	332	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2997.5553	38.72	-21.77	28.59	-49.72	-25.00	24.72	141	143	Vertical
2	6101.5241	46.19	-40.54	33.40	-56.21	-25.00	31.21	220	301	Vertical
3	9482.6593	44.26	-35.90	37.70	-49.20	-25.00	24.20	245	260	Vertical
4	11035.5214	43.52	-37.20	40.14	-48.80	-25.00	23.80	103	301	Vertical
5	13558.0223	44.05	-37.90	40.02	-49.09	-25.00	24.09	180	59	Vertical
6	15188.8876	42.34	-35.73	39.77	-48.88	-25.00	23.88	254	6	Vertical



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Test Band = LTE_41_TM1_20MHz
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2486.6096	43.68	-23.12	27.75	-46.95	-25.00	21.95	233	304	Horizontal
2	5342.4937	49.09	-42.17	32.15	-56.19	-25.00	31.19	145	336	Horizontal
3	7710.1884	44.65	-37.59	36.72	-51.48	-25.00	26.48	240	322	Horizontal
4	9920.0768	43.42	-35.49	38.62	-48.71	-25.00	23.71	360	322	Horizontal
5	13694.2278	43.35	-38.00	40.19	-49.72	-25.00	24.72	114	265	Horizontal
6	16412.9365	42.74	-34.92	38.86	-48.58	-25.00	23.58	280	153	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2987.9987	39.24	-21.79	28.53	-49.28	-25.00	24.28	240	69	Vertical
2	5342.4937	49.06	-42.17	32.15	-56.22	-25.00	31.22	274	345	Vertical
3	7447.9779	45.40	-38.28	36.80	-51.34	-25.00	26.34	380	193	Vertical
4	9908.0763	43.25	-35.17	38.61	-48.57	-25.00	23.57	290	139	Vertical
5	10938.3175	44.01	-37.26	40.16	-48.35	-25.00	23.35	166	37	Vertical
6	13700.228	43.57	-38.02	40.20	-49.51	-25.00	24.51	325	229	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	-0.10	-0.000039	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	9.20	0.003548	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	2.90	0.001118	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-1.00	-0.000386	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	2.70	0.001041	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	9.40	0.003625	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	0.40	0.000154	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	1.40	0.000540	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	7.70	0.002970	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	3.10	0.001196	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	2.50	0.000964	PASS

---End of Attachment---



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