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Appendix B.12

LTE Band 41



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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	23.15	26.15	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.85	25.85	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.09	26.09	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.08	25.08	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.87	25.87	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.62	25.62	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.76	25.76	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.79	24.79	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.54	25.54	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.27	25.27	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.24	25.24	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.35	24.35	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.45	25.45	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.13	25.13	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.23	25.23	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.05	24.05	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.15	25.15	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.96	24.96	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.01	25.01	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.81	23.81	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.80	24.80	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.56	24.56	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.44	24.44	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.33	23.33	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.31	26.31	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.02	26.02	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.26	26.26	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.03	25.03	33	PASS



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Band41	10MHz	QPSK	40620	1RB#0	23.15	26.15	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.81	25.81	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.86	25.86	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.86	24.86	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.60	25.60	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.33	25.33	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.44	25.44	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.38	24.38	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.59	25.59	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.33	25.33	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.38	25.38	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.12	24.12	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.44	25.44	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.21	25.21	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.24	25.24	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.84	23.84	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.89	24.89	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.60	24.60	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.65	24.65	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.39	23.39	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.99	25.99	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.97	25.97	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.83	25.83	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.88	24.88	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.87	25.87	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.65	25.65	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.44	25.44	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.62	24.62	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.57	25.57	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.61	25.61	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.54	25.54	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.52	24.52	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.11	25.11	33	PASS



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Band41	15MHz	16QAM	39725	1RB#74	21.96	24.96	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.92	23.92	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.07	25.07	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.92	24.92	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.71	24.71	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.67	23.67	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.80	24.80	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.80	24.80	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.75	24.75	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.60	23.60	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.03	26.03	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.98	25.98	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.91	25.91	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.94	24.94	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.89	25.89	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.75	25.75	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.51	25.51	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.69	24.69	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.62	25.62	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.55	25.55	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.47	25.47	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.49	24.49	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.19	25.19	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.10	25.10	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.90	24.90	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.99	23.99	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.12	25.12	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.00	25.00	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.73	24.73	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.76	23.76	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.85	24.85	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.79	24.79	33	PASS



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Band41	20MHz	16QAM	41490	1RB#99	21.75	24.75	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.57	23.57	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	9.26	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.26	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.24	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	10.24	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	10.30	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	10.26	13	PASS



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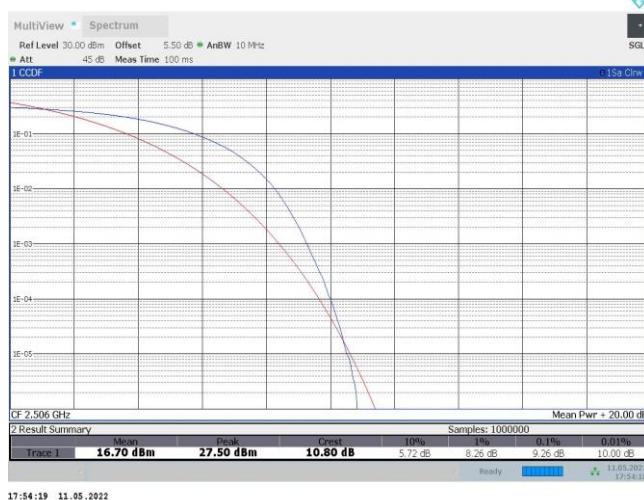
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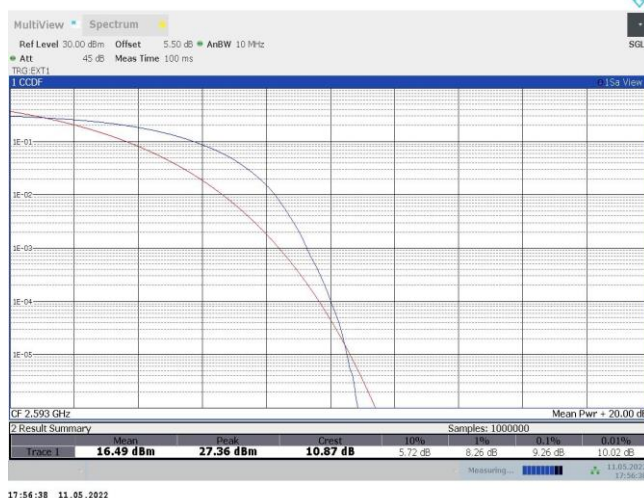
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Test Graphs

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



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



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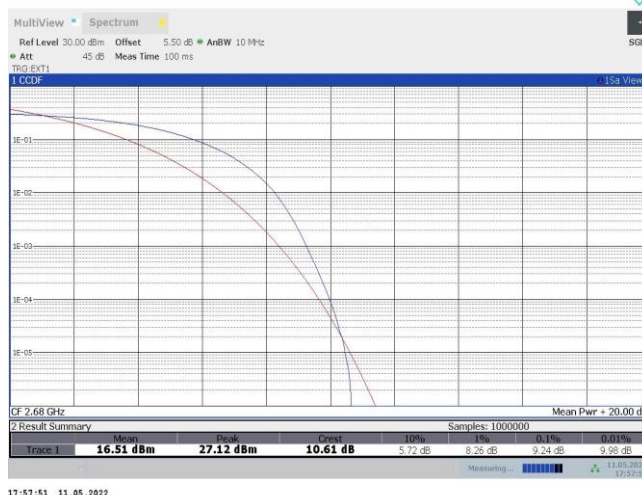
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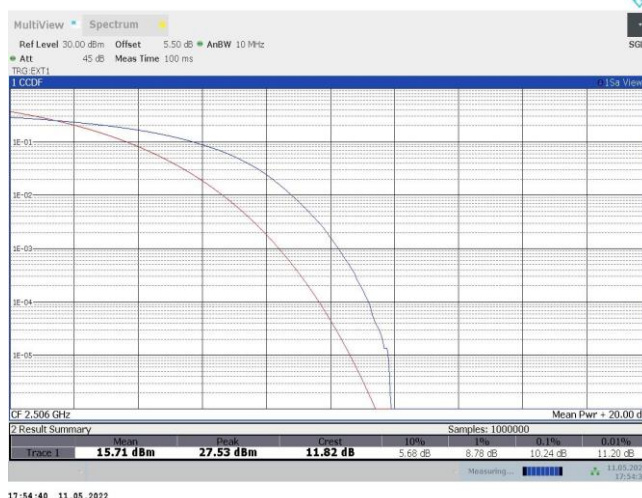
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Band41-20MHz-QPSK-41490-100RB#0



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



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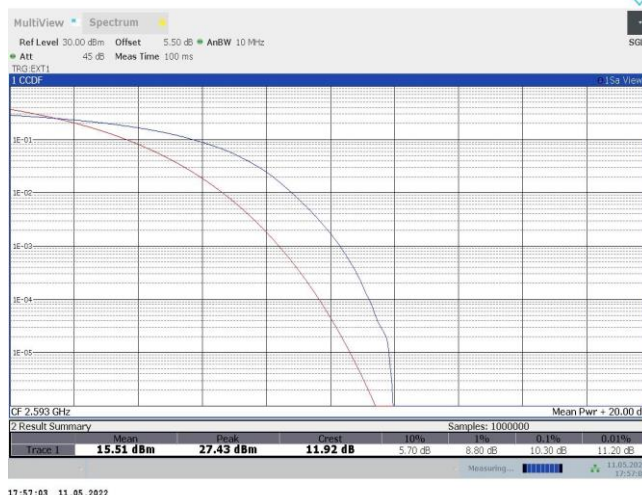
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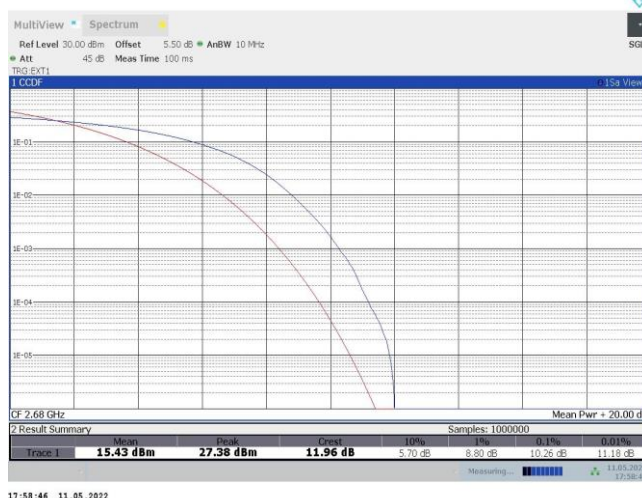
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Band41-20MHz-16QAM-41490-100RB#0



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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



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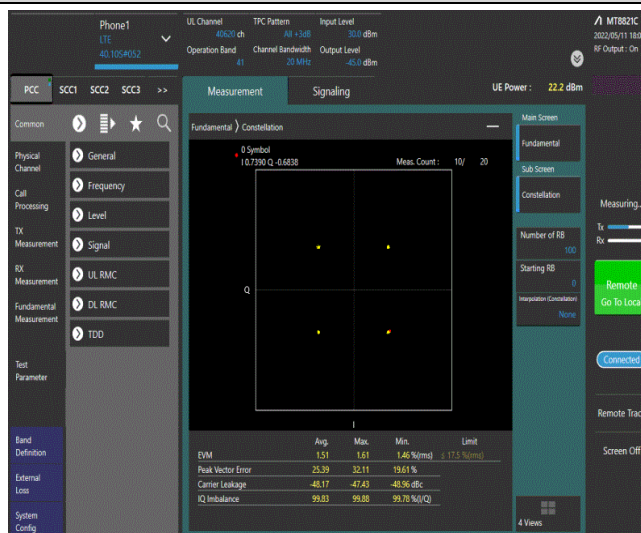
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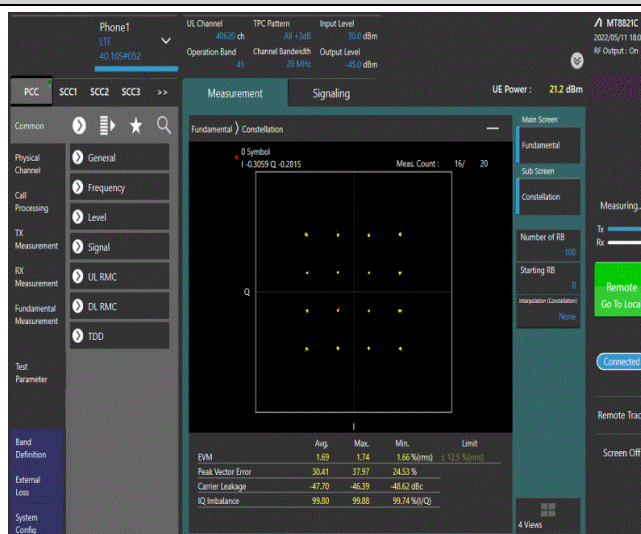
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Test Graphs

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



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



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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	4.477	4.88	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.472	4.88	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	4.87	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.466	4.89	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.466	4.87	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.463	4.89	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.917	9.70	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.921	9.70	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.904	9.70	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.925	9.64	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.914	9.58	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.913	9.60	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.478	16.17	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.475	16.23	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.47	16.20	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.45	14.94	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.445	15.06	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.448	14.76	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.888	19.52	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.894	19.36	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.897	19.28	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.884	20.52	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.886	20.48	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.896	20.28	PASS



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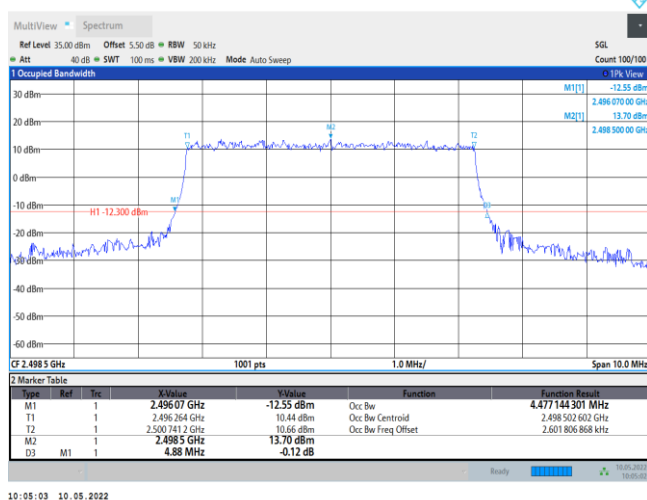
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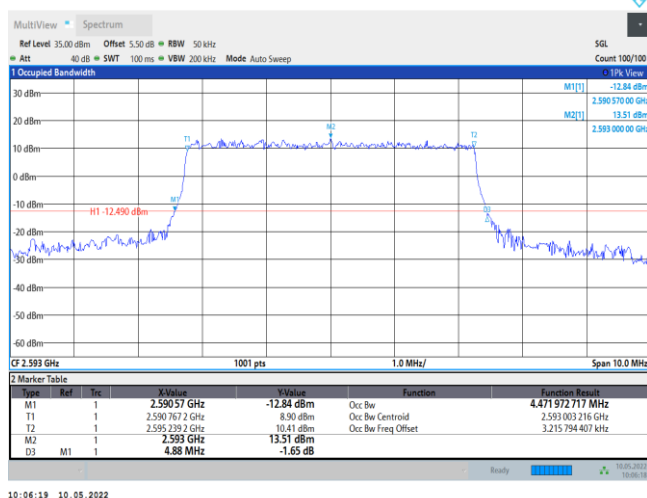
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Test Graphs

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



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



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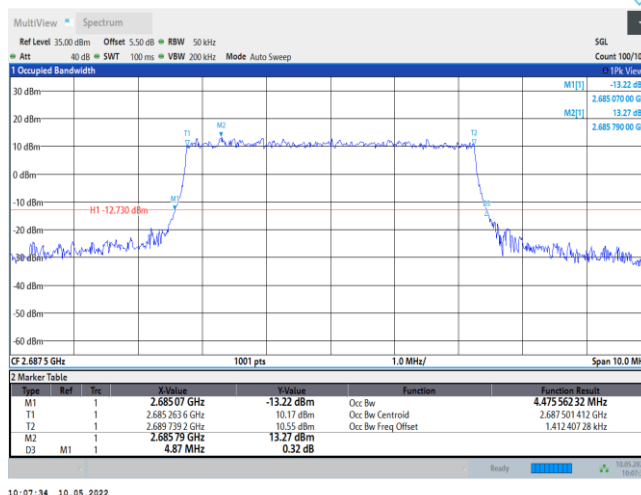
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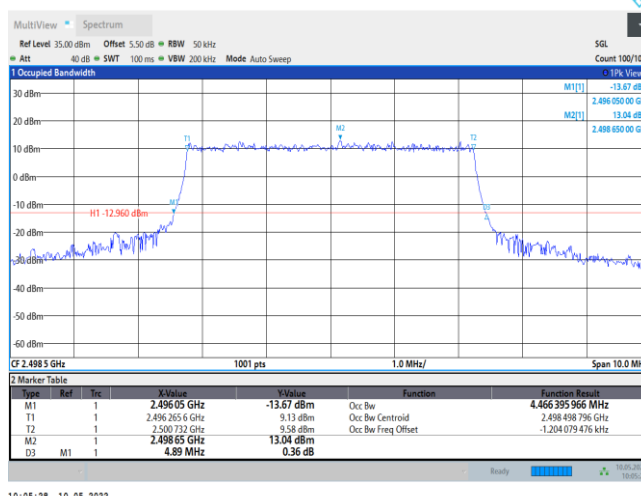
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Band41-5MHz-16QAM-39675-25RB#0



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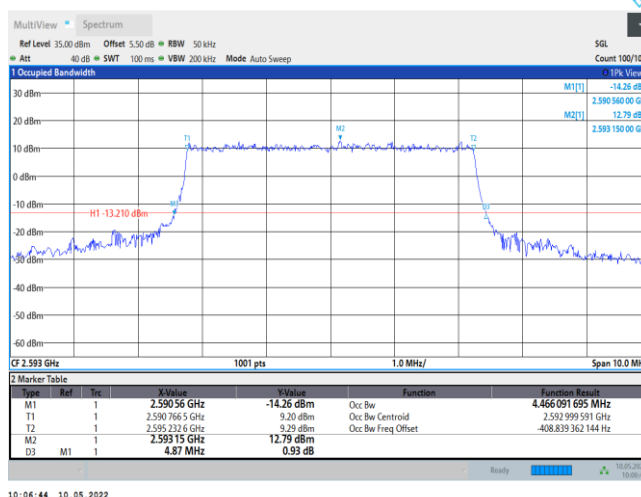
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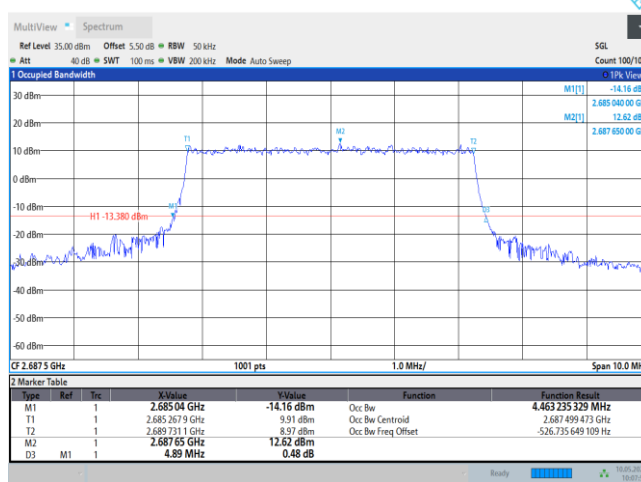
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Band41-5MHz-16QAM-41565-25RB#0



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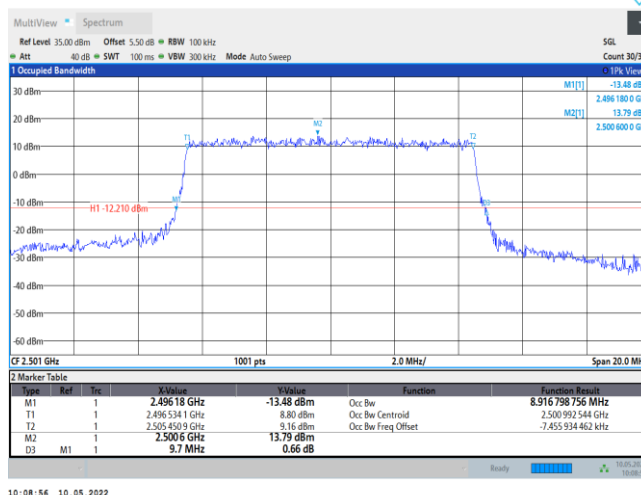
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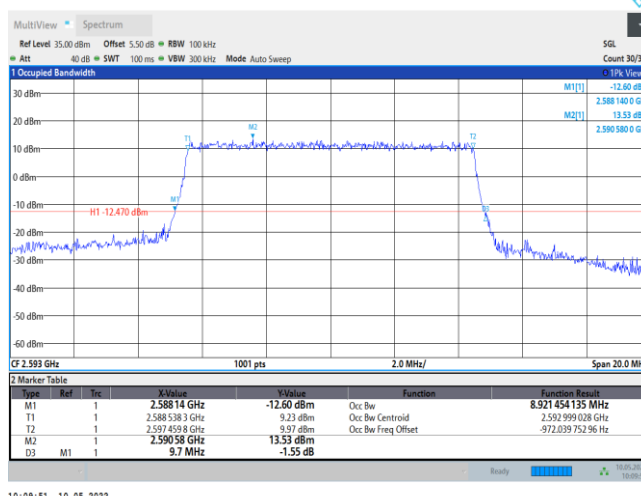
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Band41-10MHz-QPSK-40620-50RB#0



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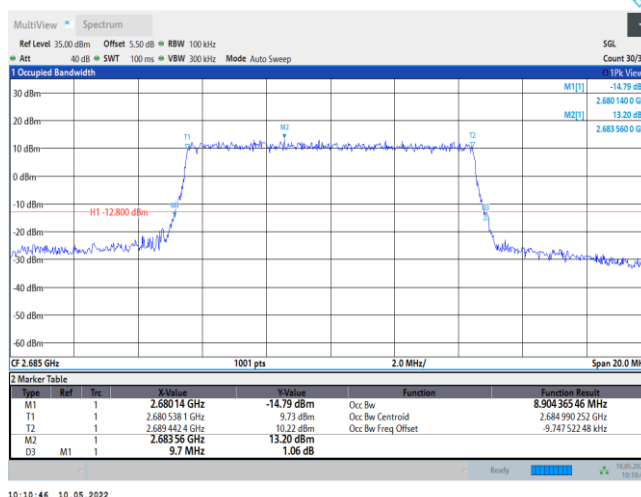
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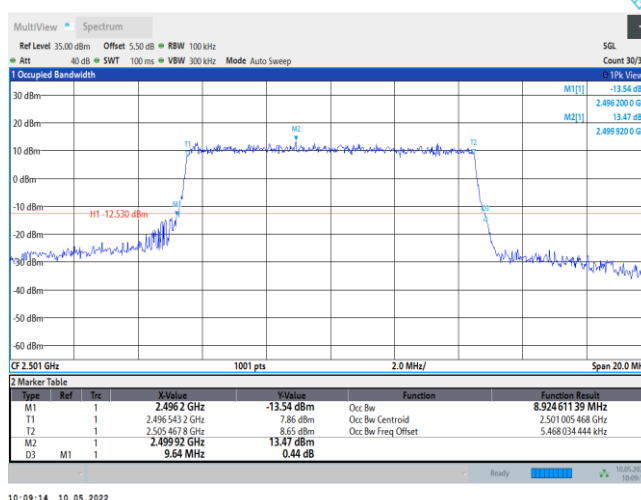
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Band41-10MHz-QPSK-41540-50RB#0



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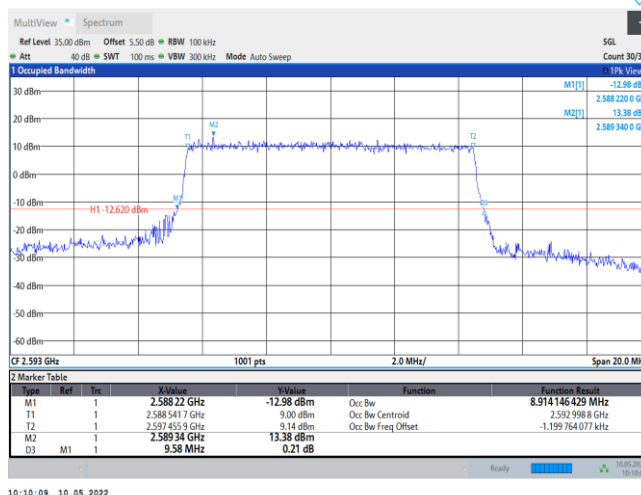
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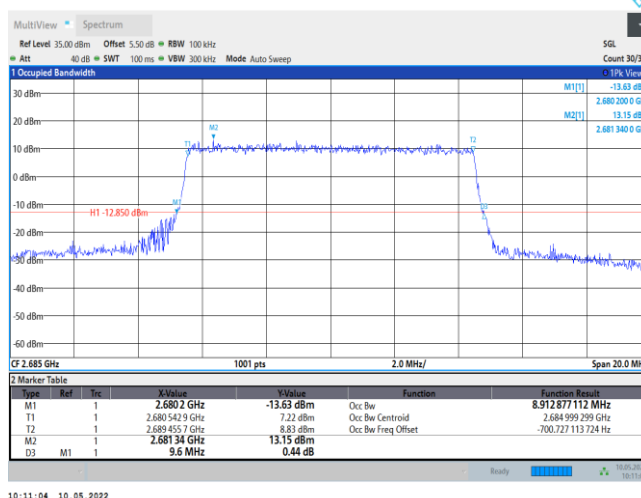
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Band41-10MHz-16QAM-40620-50RB#0



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



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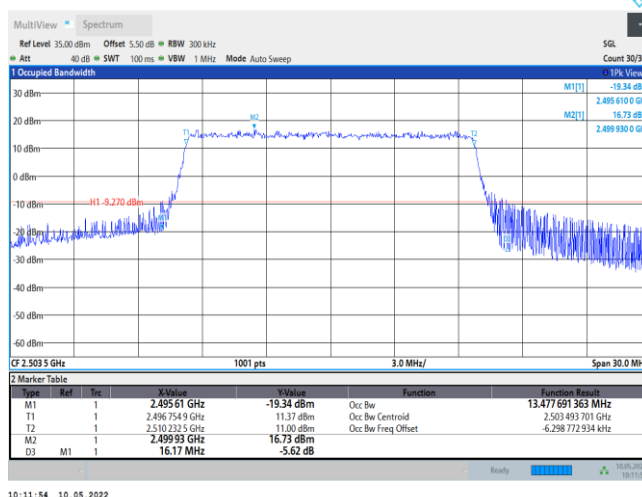
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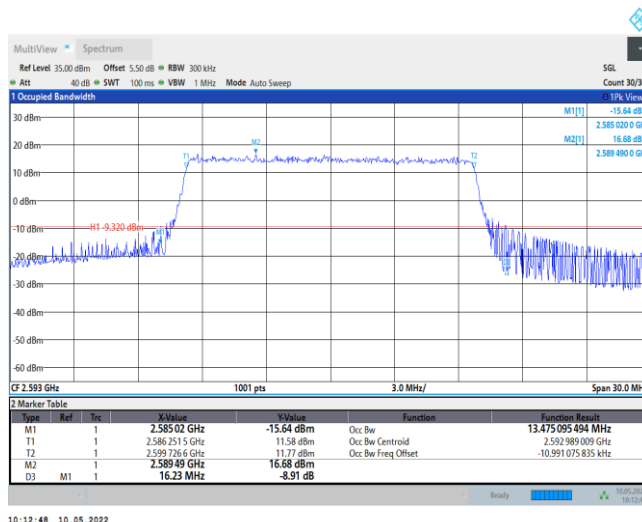
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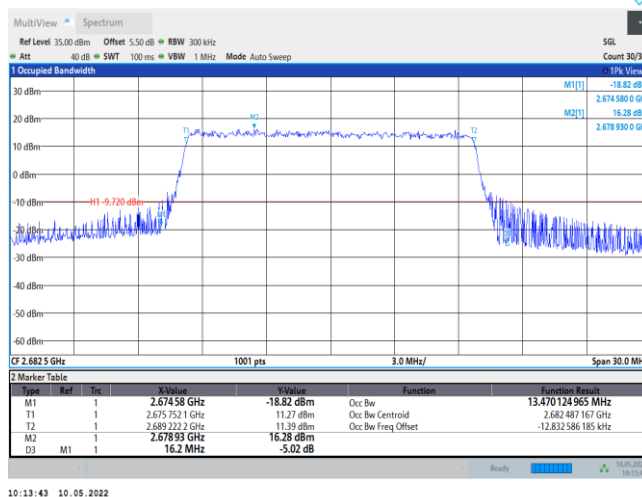
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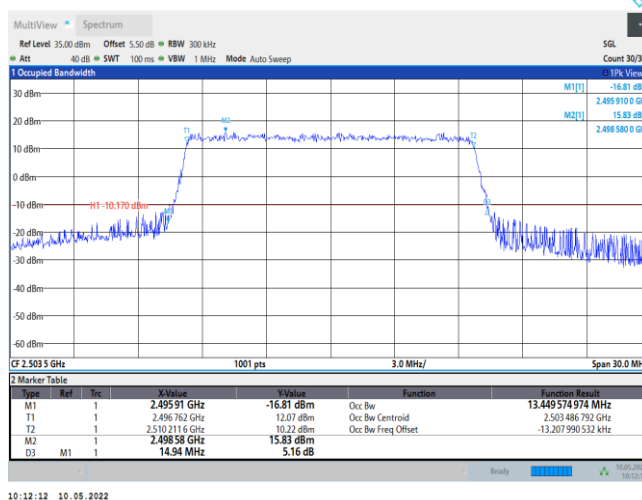
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Band41-15MHz-QPSK-41515-75RB#0



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



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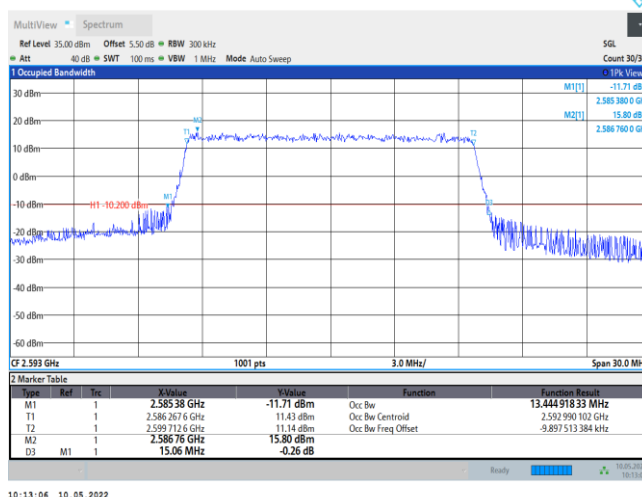
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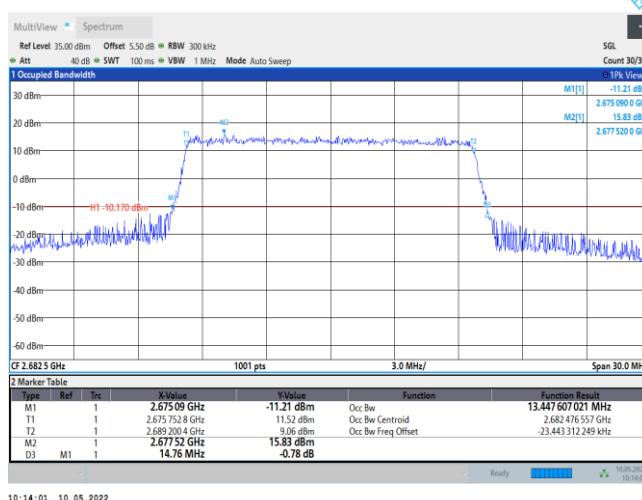
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Band41-15MHz-16QAM-40620-75RB#0



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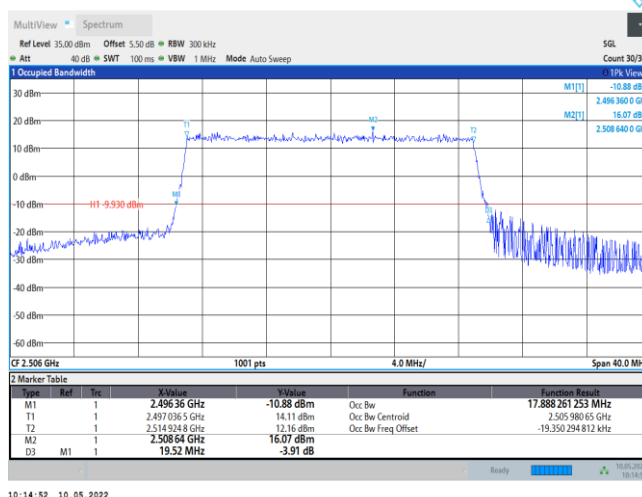
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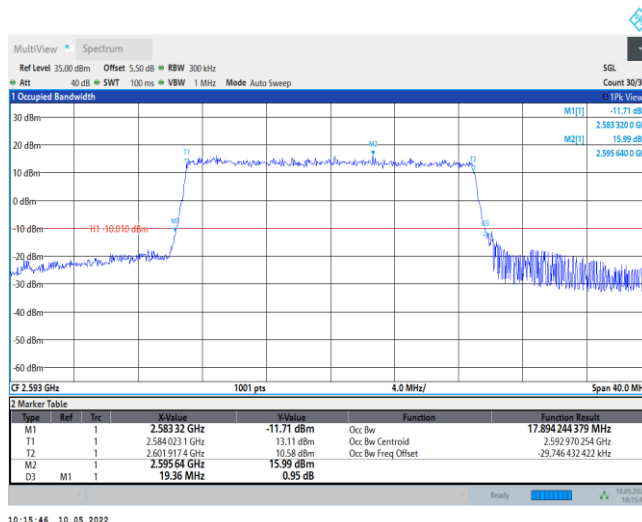
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Band41-20MHz-QPSK-39750-100RB#0



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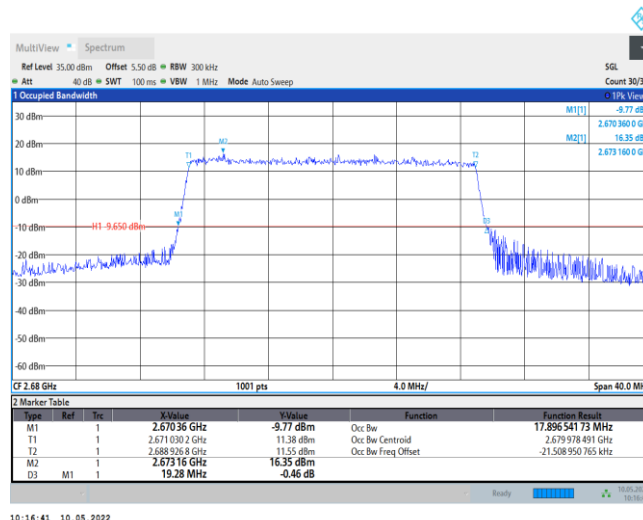
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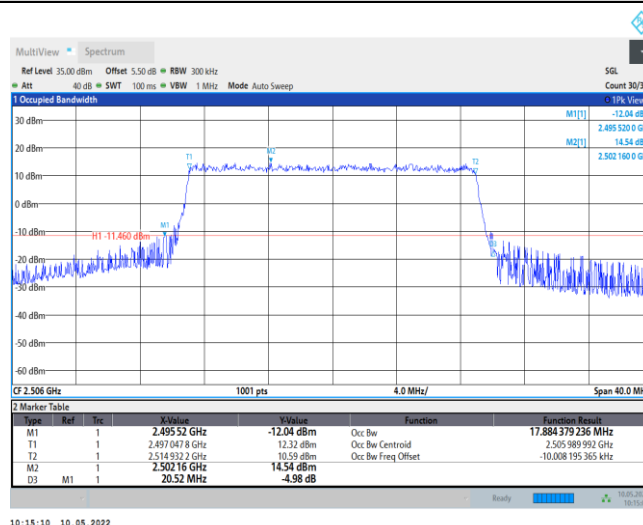
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Band41-20MHz-QPSK-41490-100RB#0



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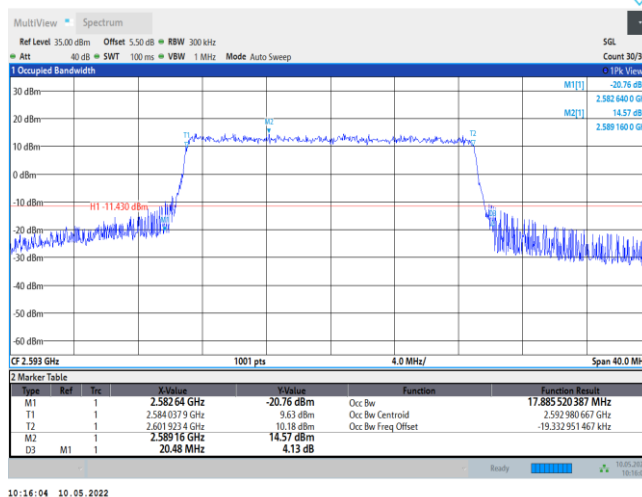
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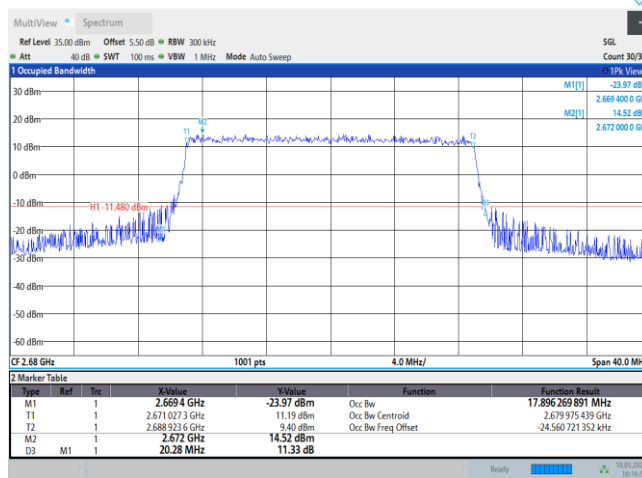
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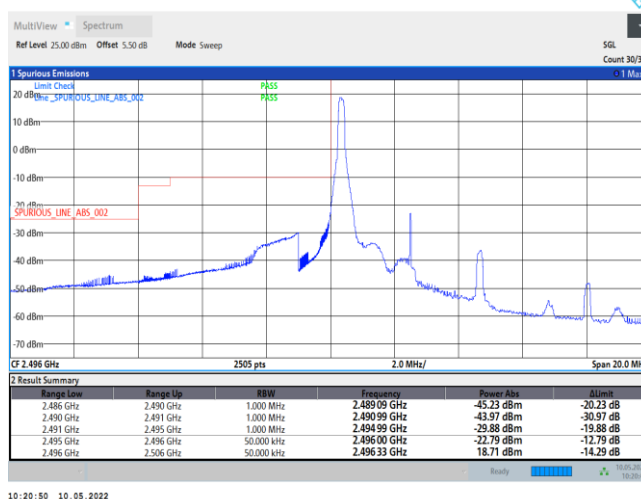
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Band Edge

Test Graphs

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



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



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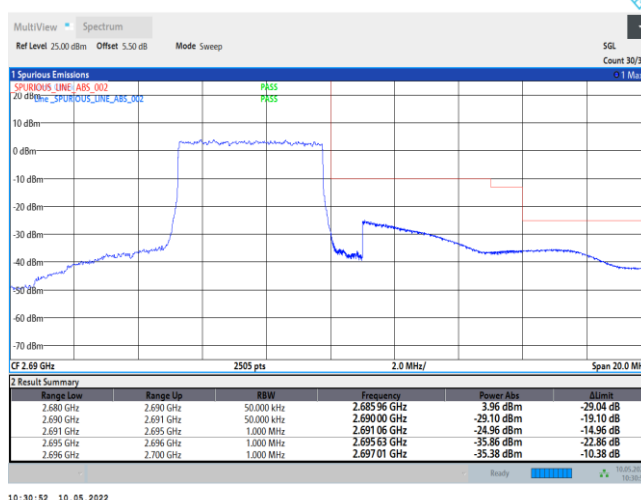
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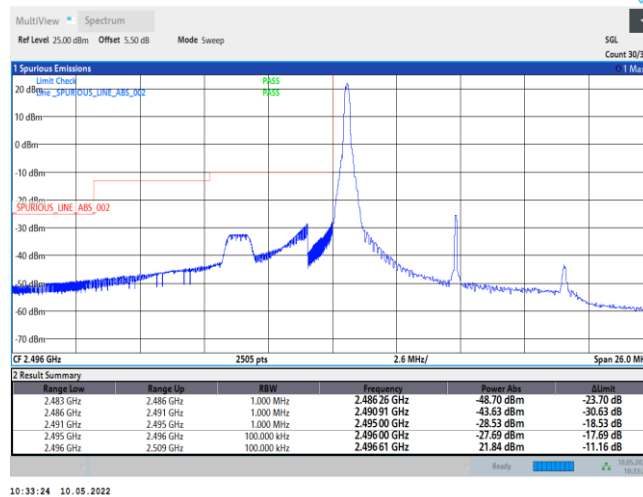
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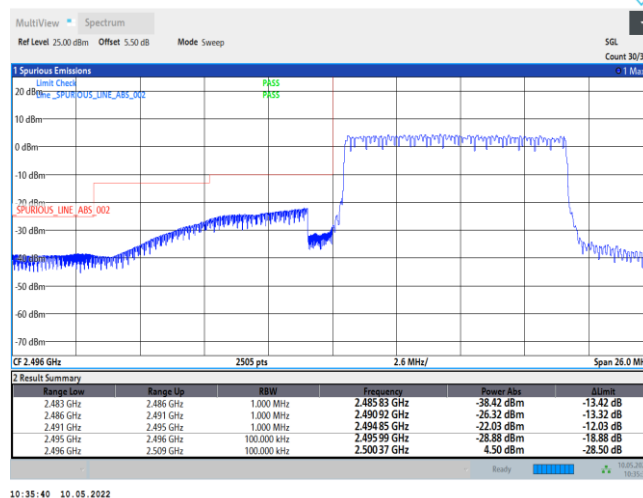
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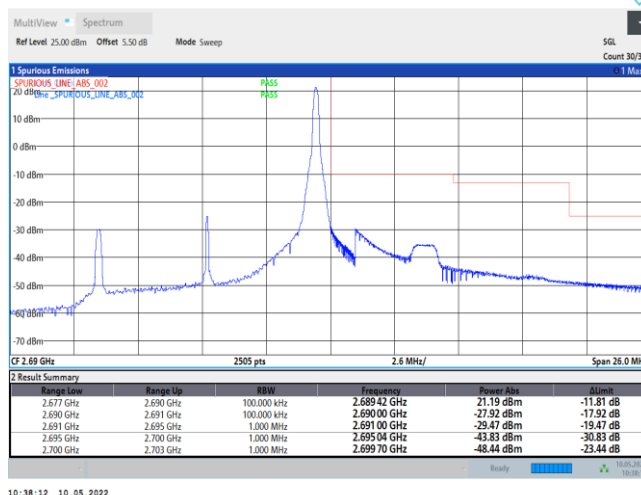
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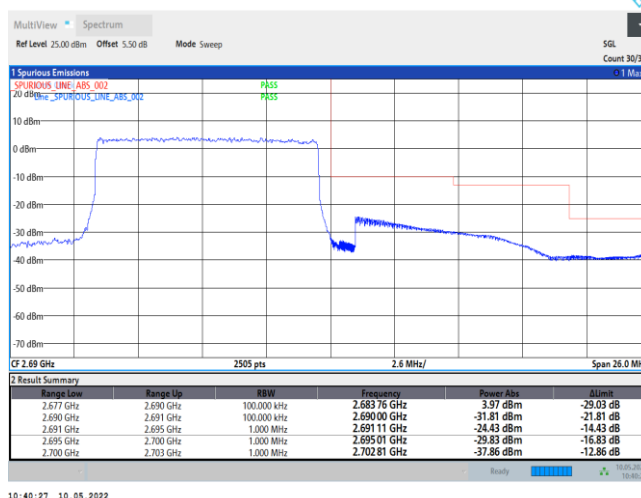
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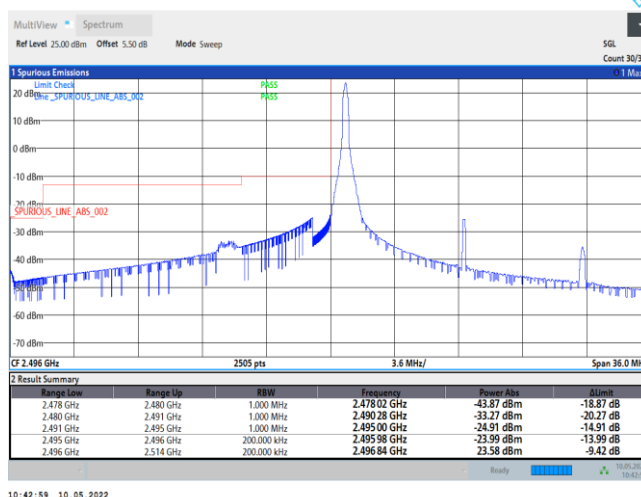
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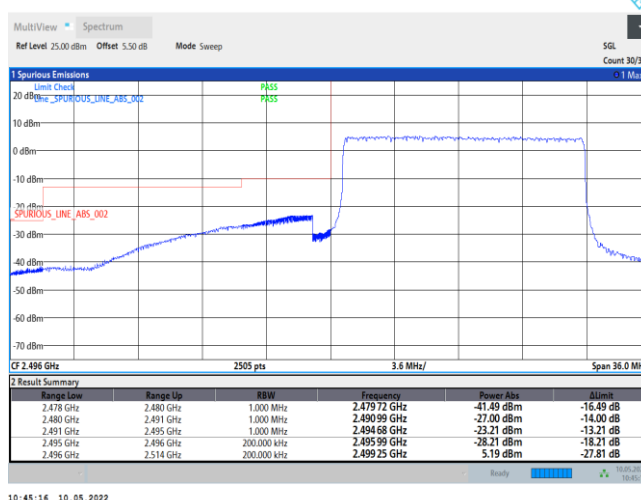
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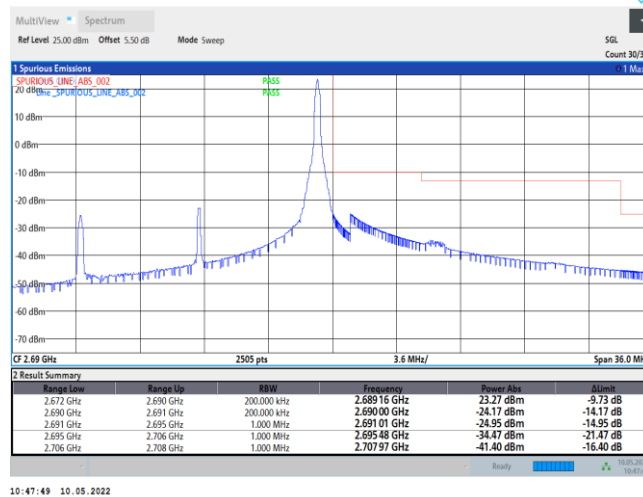
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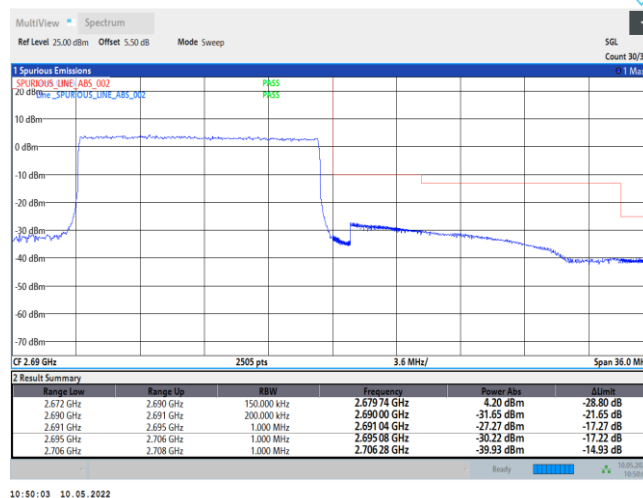
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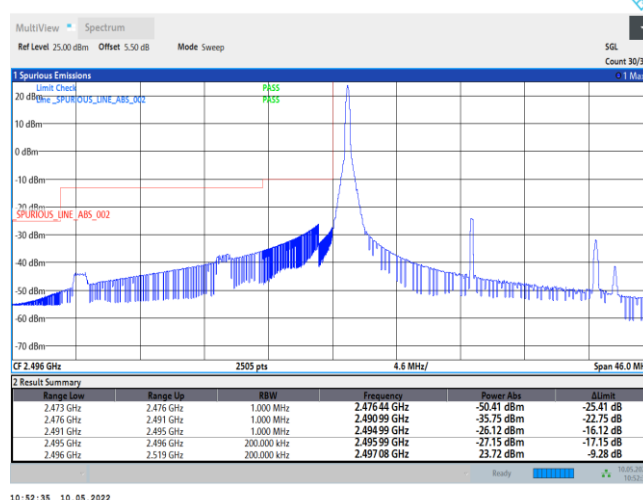
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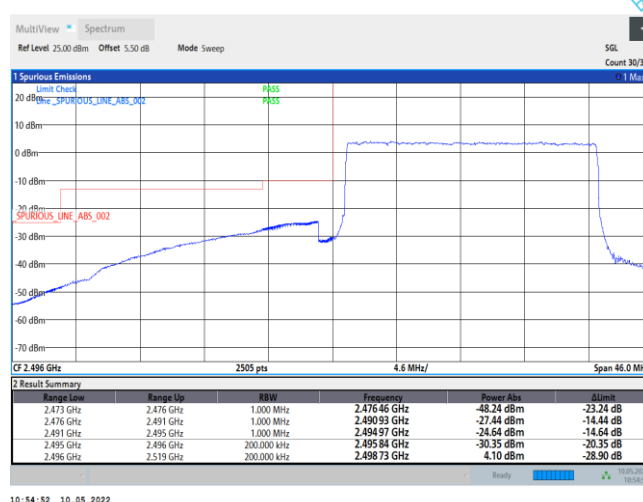
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Band41-20MHz-QPSK-39750-1RB#0



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



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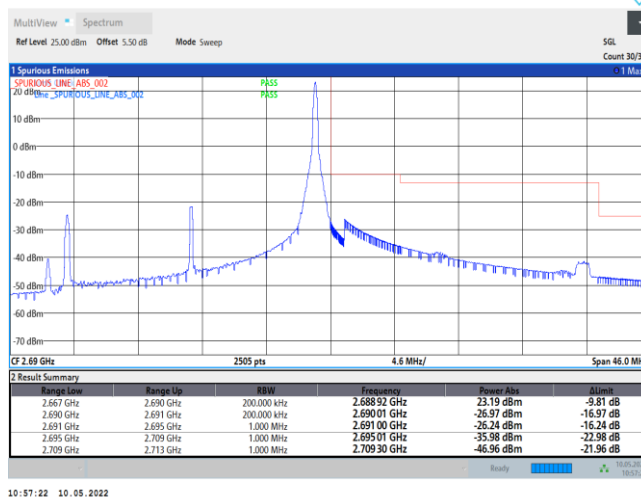
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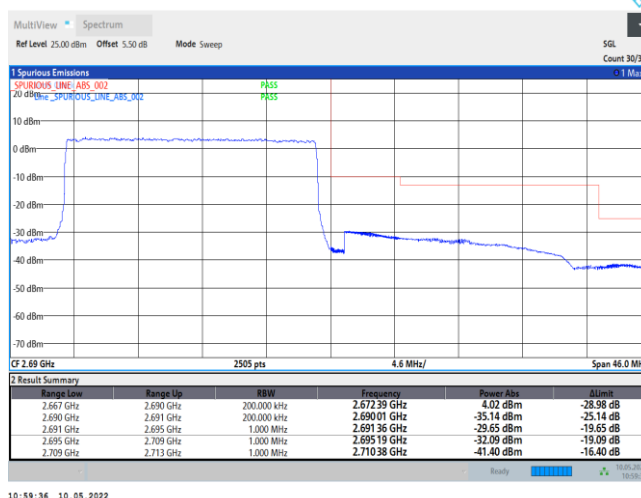
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Band41-20MHz-QPSK-41490-1RB#99



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



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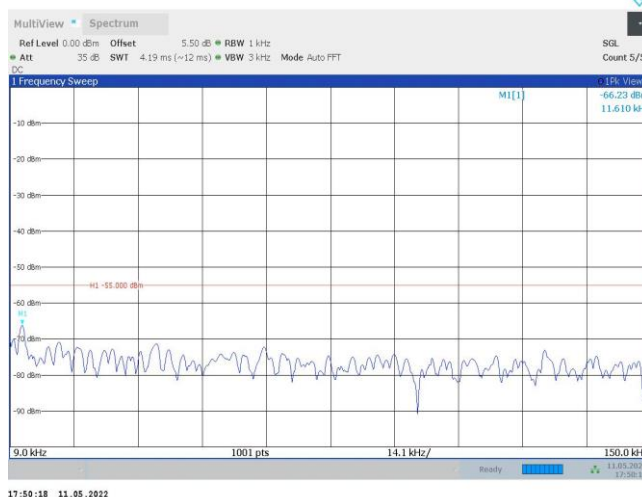
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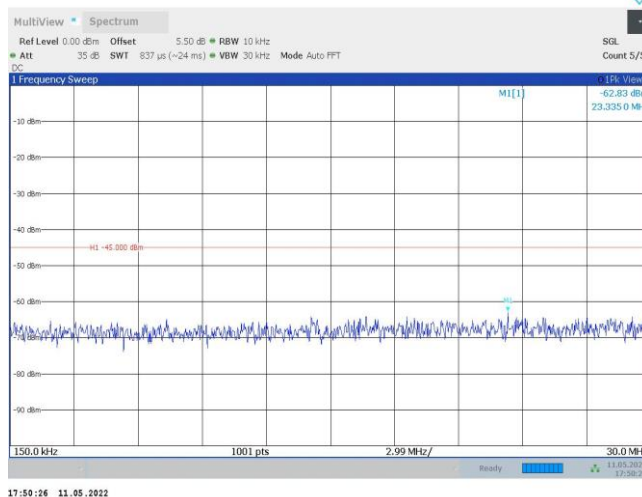
Conducted Spurious Emission

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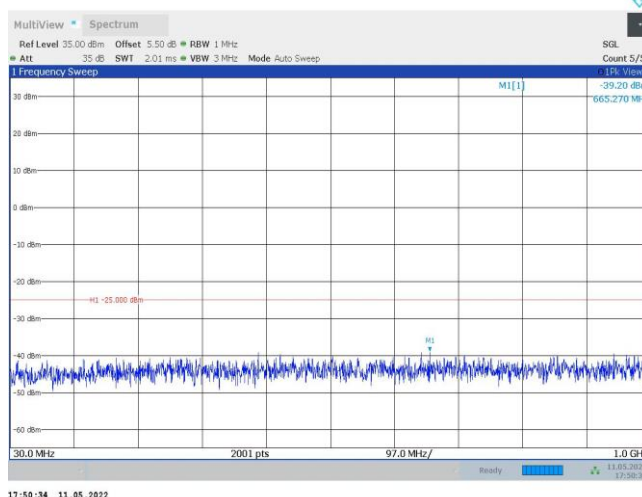
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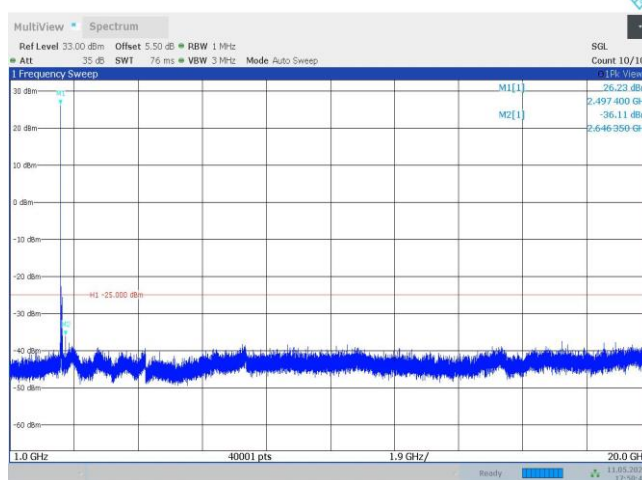
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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



17:50:42 11.05.2022



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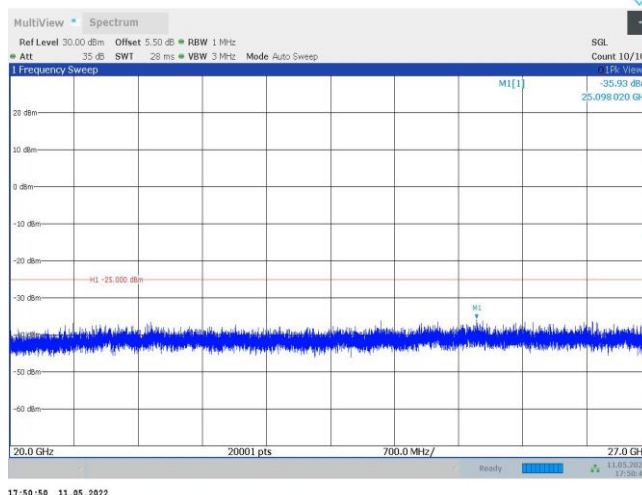
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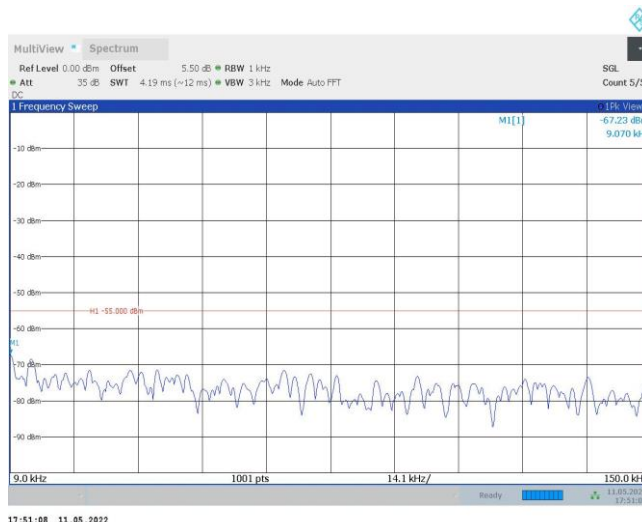
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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



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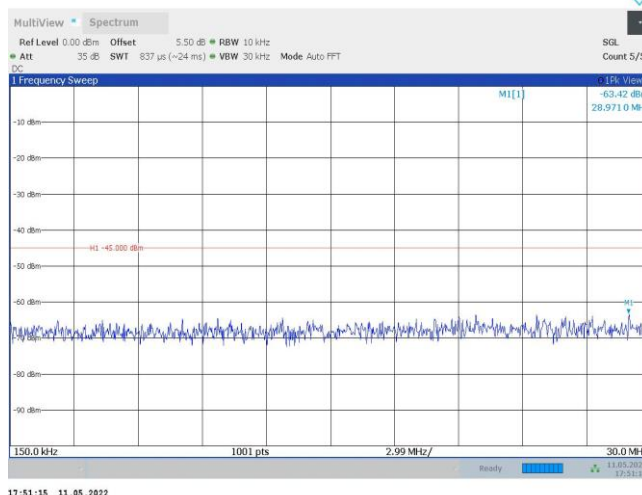
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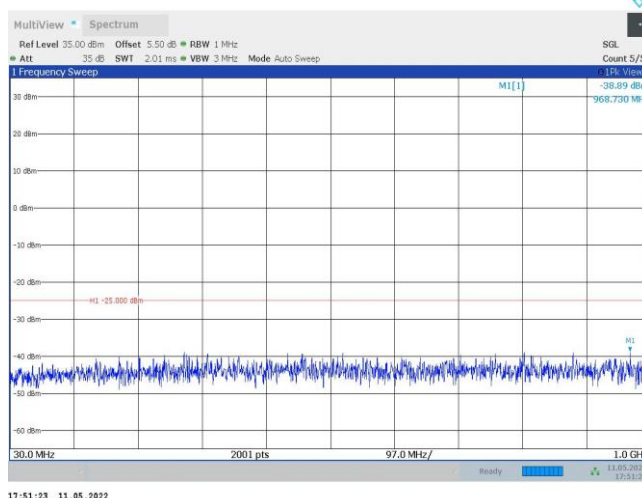
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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



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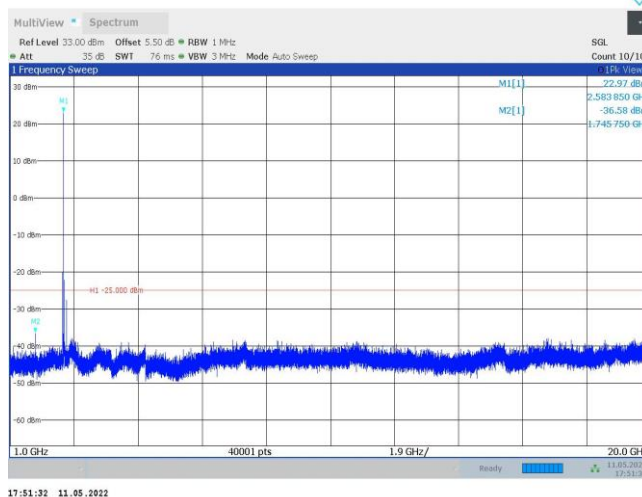
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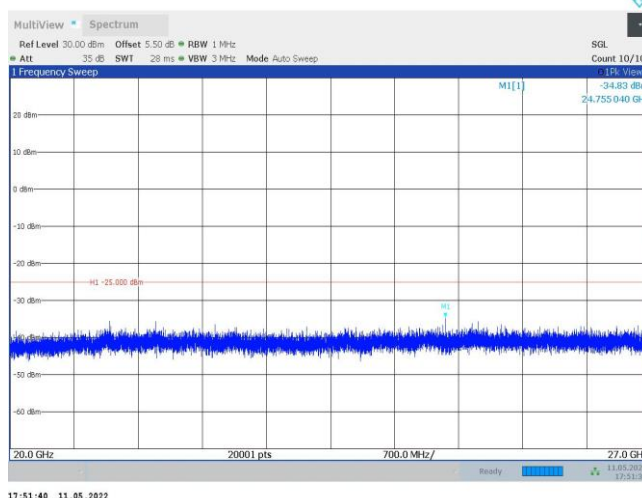
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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



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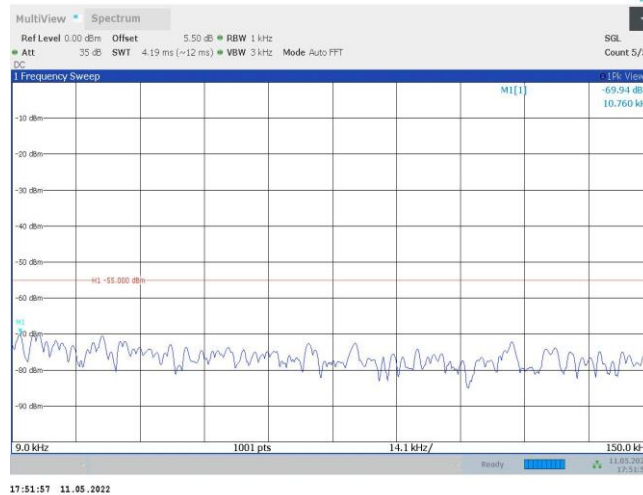
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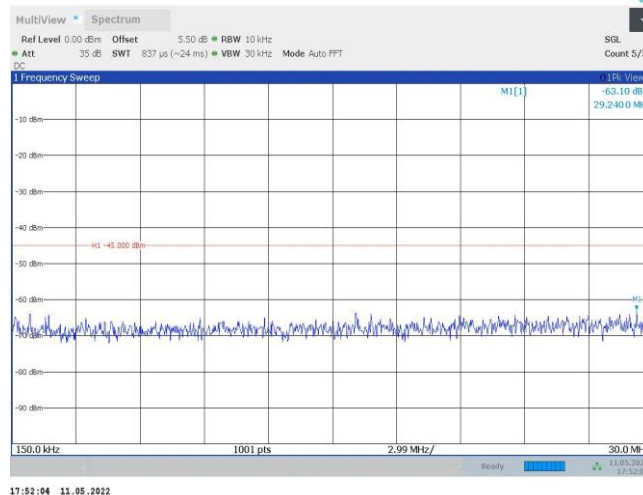
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



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



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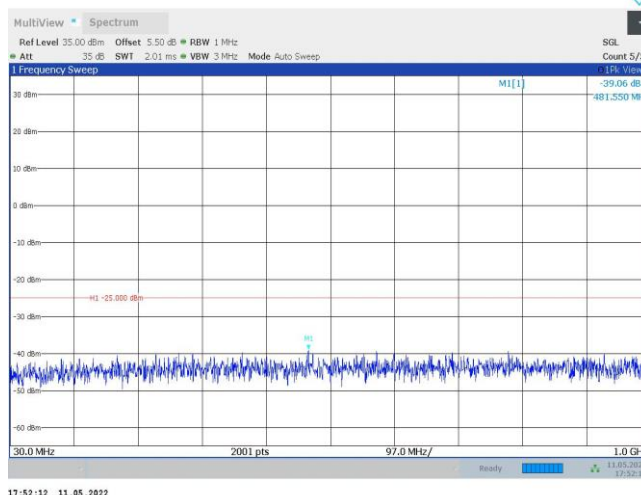
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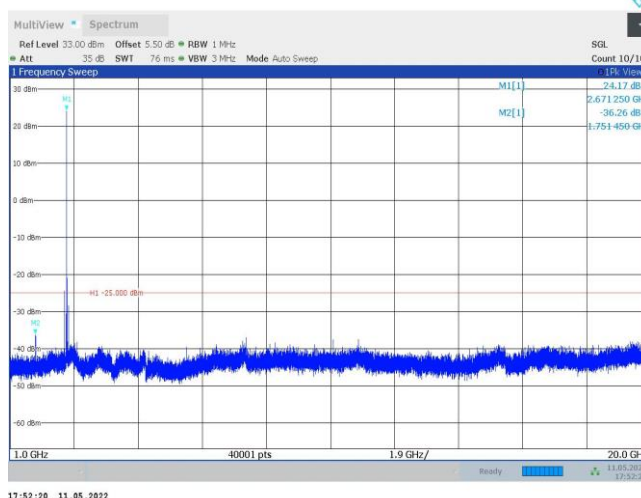
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



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



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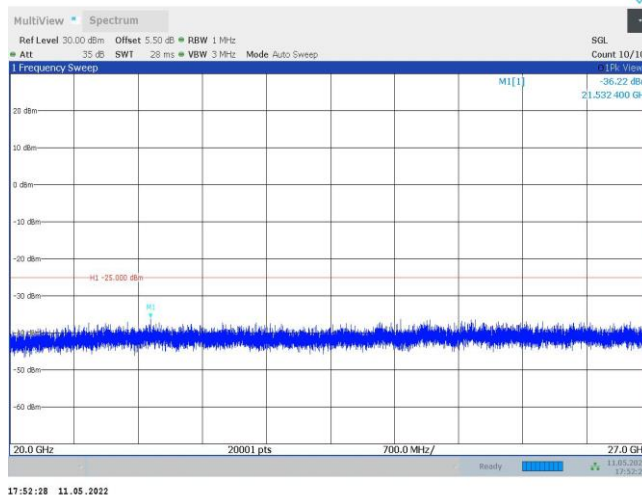


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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band41_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	48.60	-108.01	-59.41	-25.00	34.41	251	15	Horizontal
2	7503.2700	46.63	-101.95	-55.32	-25.00	30.32	145	79	Horizontal
3	10004.3600	42.88	-96.00	-53.12	-25.00	28.12	196	357	Horizontal
4	12505.4500	39.14	-93.07	-53.93	-25.00	28.93	182	88	Horizontal
5	15006.5400	35.73	-90.70	-54.97	-25.00	29.97	235	263	Horizontal
6	17507.6300	41.06	-90.99	-49.93	-25.00	24.93	140	122	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	48.33	-108.01	-59.68	-25.00	34.68	122	1	Vertical
2	7503.2700	47.66	-101.95	-54.29	-25.00	29.29	235	2	Vertical
3	10004.3600	41.72	-96.00	-54.28	-25.00	29.28	145	346	Vertical
4	12505.4500	38.49	-93.07	-54.58	-25.00	29.58	168	110	Vertical
5	15006.5400	35.77	-90.70	-54.93	-25.00	29.93	199	2	Vertical
6	17507.6300	38.24	-90.99	-52.75	-25.00	27.75	211	0	Vertical



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Test Band = LTE Band41_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3832.5	51.26	-110.89	-59.63	-25.00	34.63	186	336	Horizontal
2	5168.1800	48.06	-107.60	-59.54	-25.00	34.54	194	163	Horizontal
3	7752.2700	46.79	-101.26	-54.47	-25.00	29.47	172	326	Horizontal
4	10336.3600	42.59	-95.48	-52.89	-25.00	27.89	233	215	Horizontal
5	12920.4500	37.89	-92.67	-54.78	-25.00	29.78	215	163	Horizontal
6	15504.5400	35.78	-92.04	-56.26	-25.00	31.26	160	68	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3517.5	52.26	-111.96	-59.70	-25.00	34.70	165	357	Vertical
2	5168.1800	48.27	-107.60	-59.33	-25.00	34.33	145	16	Vertical
3	7752.2700	46.74	-101.26	-54.52	-25.00	29.52	199	145	Vertical
4	10336.3600	41.35	-95.48	-54.13	-25.00	29.13	172	111	Vertical
5	12920.4500	39.00	-92.67	-53.67	-25.00	28.67	223	174	Vertical
6	15504.5400	37.17	-92.04	-54.87	-25.00	29.87	206	121	Vertical



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Test Band = LTE Band41_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4119	52.27	-110.04	-57.77	-25.00	32.77	168	271	Horizontal
2	5168.1800	48.02	-107.60	-59.58	-25.00	34.58	199	240	Horizontal
3	7752.2700	46.23	-101.26	-55.03	-25.00	30.03	228	68	Horizontal
4	10336.3600	41.55	-95.48	-53.93	-25.00	28.93	171	208	Horizontal
5	12920.4500	38.54	-92.67	-54.13	-25.00	29.13	282	145	Horizontal
6	15504.5400	35.53	-92.04	-56.51	-25.00	31.51	236	26	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3739.5	52.24	-110.81	-58.57	-25.00	33.57	195	293	Vertical
2	5168.1800	47.93	-107.60	-59.67	-25.00	34.67	148	122	Vertical
3	7752.2700	46.63	-101.26	-54.63	-25.00	29.63	172	250	Vertical
4	10336.3600	41.87	-95.48	-53.61	-25.00	28.61	201	184	Vertical
5	12920.4500	37.31	-92.67	-55.36	-25.00	30.36	231	173	Vertical
6	15504.5400	34.77	-92.04	-57.27	-25.00	32.27	189	98	Vertical



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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	-3.20	-0.001234	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-4.70	-0.001813	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-5.10	-0.001967	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-3.20	-0.001234	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	0.60	0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-3.30	-0.001273	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-4.40	-0.001697	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-3.80	-0.001465	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-2.50	-0.000964	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-2.30	-0.000887	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-3.10	-0.001196	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-4.90	-0.001890	PASS

The End



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