



Appendix B.16

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.46	24.66	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.4	24.6	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.29	24.49	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.19	23.39	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.64	24.84	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.36	24.56	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.49	24.69	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.53	23.73	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.55	24.75	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.37	24.57	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.59	24.79	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.66	23.86	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.52	23.72	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.69	23.89	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.47	23.67	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.21	22.41	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.86	24.06	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.29	23.49	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.46	23.66	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.42	22.62	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.57	23.77	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.56	23.76	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.78	23.98	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.34	22.54	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	19	20.2	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	21.22	22.42	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	21.22	22.42	33	PASS
Band41	5MHz	64QAM	39675	25RB#0	20.65	21.85	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	21.71	22.91	33	PASS



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Band41	5MHz	64QAM	40620	1RB#12	21.18	22.38	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.35	22.55	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	20.72	21.92	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.59	22.79	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.26	22.46	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.17	22.37	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	20.91	22.11	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.71	24.91	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.36	24.56	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.72	24.92	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.36	23.56	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.65	24.85	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.74	24.94	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.47	24.67	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.58	23.78	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.88	25.08	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.79	24.99	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.84	25.04	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.74	23.94	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.67	23.87	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.32	23.52	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.81	24.01	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.38	22.58	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.67	23.87	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.31	23.51	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.97	24.17	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.47	22.67	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.85	24.05	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.98	24.18	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.61	24.81	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.8	23	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	21.76	22.96	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	21.17	22.37	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	20.86	22.06	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	20.73	21.93	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	21.65	22.85	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	21.66	22.86	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.38	22.58	33	PASS



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Band41	10MHz	64QAM	40620	50RB#0	20.77	21.97	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	21.68	22.88	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.09	22.29	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	20.97	22.17	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	20.79	21.99	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.34	24.54	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.59	24.79	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.83	24.03	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.55	23.75	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.59	24.79	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.92	25.12	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.02	24.22	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.72	23.92	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.63	24.83	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.95	25.15	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.11	24.31	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.84	24.04	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.53	23.73	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.71	23.91	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.04	23.24	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.48	22.68	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.6	23.8	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.95	24.15	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.14	23.34	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.77	22.97	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.72	23.92	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.01	24.21	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.43	23.63	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.82	23.02	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	21.23	22.43	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	21.55	22.75	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	20.85	22.05	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	20.83	22.03	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.34	22.54	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.75	22.95	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	20.88	22.08	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	20.91	22.11	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	21.21	22.41	33	PASS



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Band41	15MHz	64QAM	41515	1RB#38	21.42	22.62	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	20.75	21.95	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	20.81	22.01	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.8	25	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.01	25.21	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.69	24.89	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.8	24	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.98	25.18	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.99	25.19	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.71	24.91	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.86	24.06	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.96	25.16	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.04	25.24	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.95	25.15	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.01	24.21	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.91	24.11	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.78	23.98	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.79	23.99	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.84	23.04	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.94	24.14	33	PASS
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Band41	20MHz	16QAM	40620	1RB#99	22.74	23.94	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.89	23.09	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.07	24.27	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.04	24.24	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.07	24.27	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.92	23.12	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	21.81	23.01	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	21.65	22.85	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	21.78	22.98	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	21.06	22.26	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	21.84	23.04	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.8	23	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.64	22.84	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	21.14	22.34	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	21.76	22.96	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	21.58	22.78	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	21.59	22.79	33	PASS



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Band41	20MHz	64QAM	41490	100RB#0	21.01	22.21	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	6.96	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.01	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	6.99	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	7.80	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	7.59	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.77	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.20	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.09	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.23	13	PASS

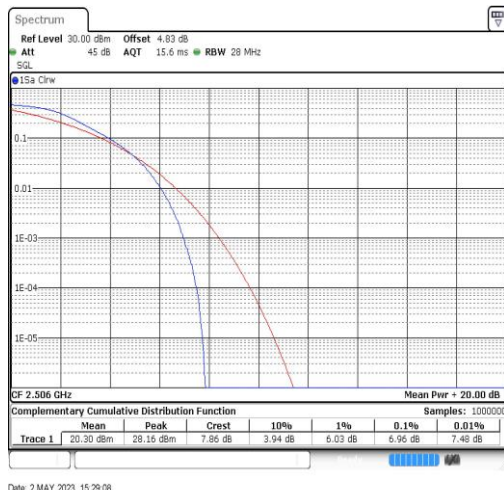


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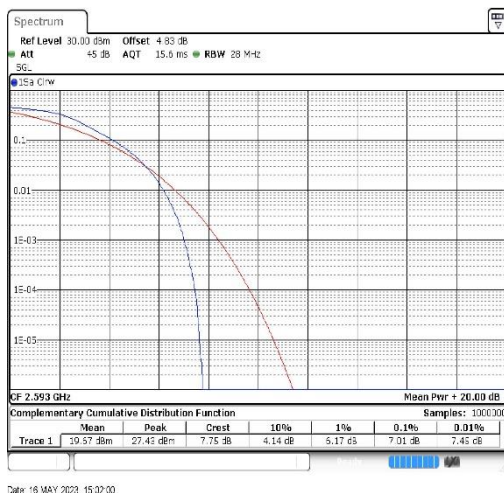
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Test Graphs



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



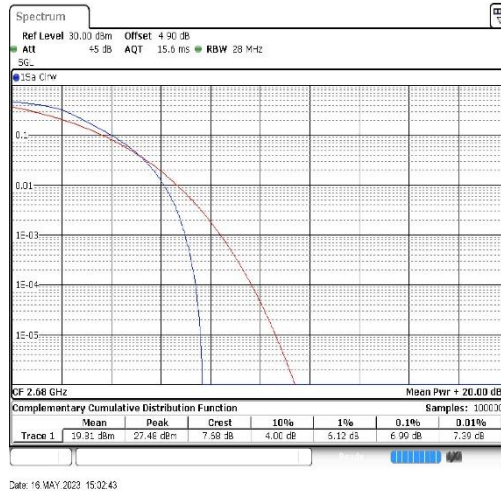
Band41-20MHz-QPSK-40620-100RB#0



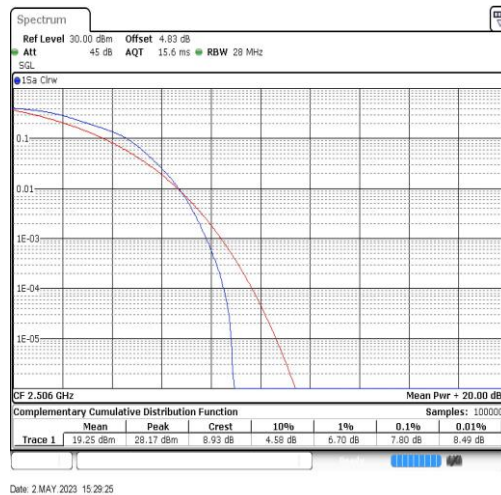
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Band41-20MHz-QPSK-41490-100RB#0



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



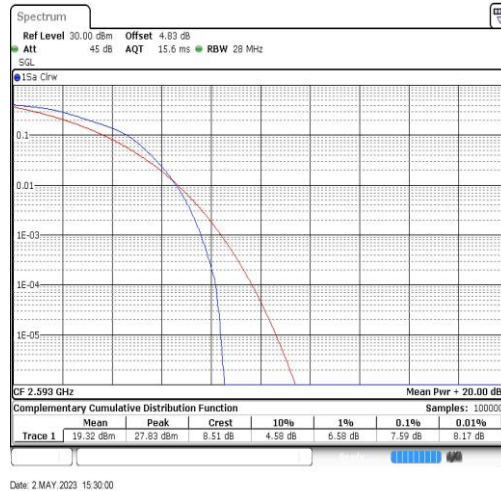
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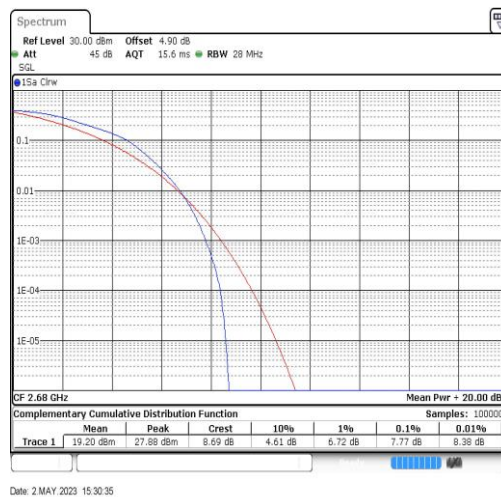
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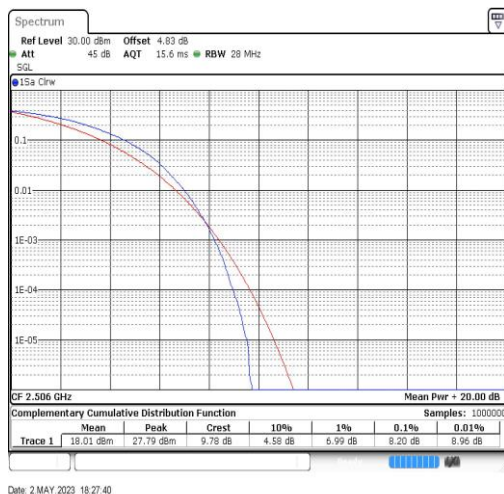


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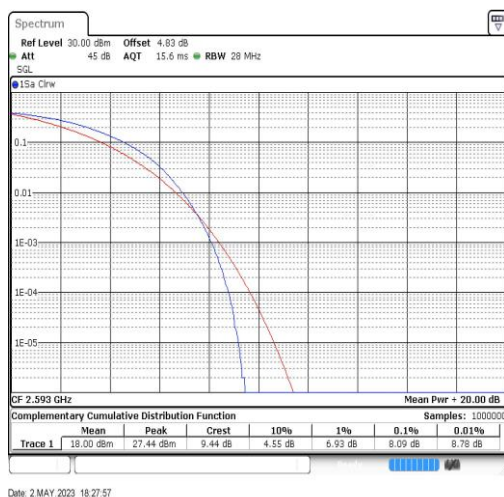


Band41-20MHz-16QAM-41490-100RB#0





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



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



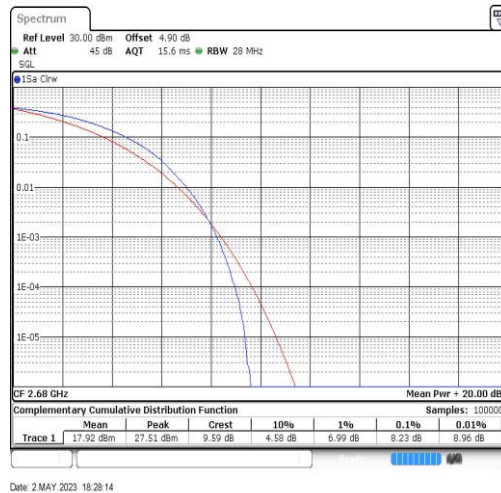
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Band41-20MHz-64QAM-41490-100RB#0



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Wireless Laboratory

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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	4.476	4.73	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.476	4.93	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	4.92	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.466	4.90	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.466	4.91	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.466	4.93	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.476	5.01	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.476	5.01	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.476	5.18	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.931	9.84	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	9.78	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.84	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.72	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.66	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.931	9.62	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.911	9.64	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.911	9.60	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.911	9.62	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	15.39	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.457	15.42	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.487	15.57	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.487	15.12	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.457	15.45	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.487	15.72	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.457	14.79	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.457	14.82	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.427	14.76	PASS



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Report No.: ZEWM2310001500RG02

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Band41	20MHz	QPSK	39750	100RB#0	17.902	19.68	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.48	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.942	19.56	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.902	19.68	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.942	19.96	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.902	19.68	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.902	19.52	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.902	19.52	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.902	19.48	PASS

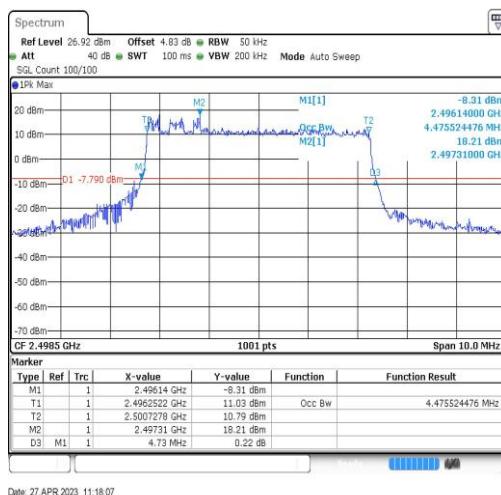


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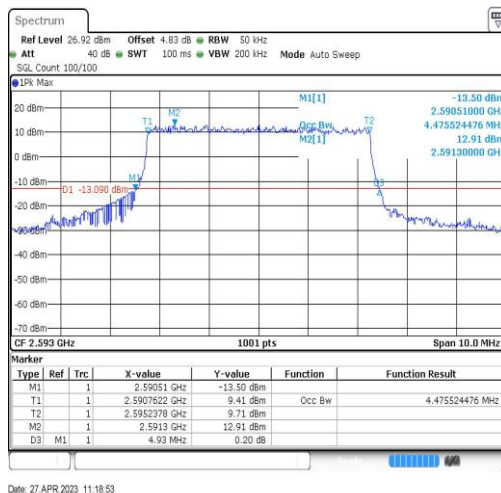
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Test Graphs



Band41-5MHz-QPSK-39675-25RB#0-4.476



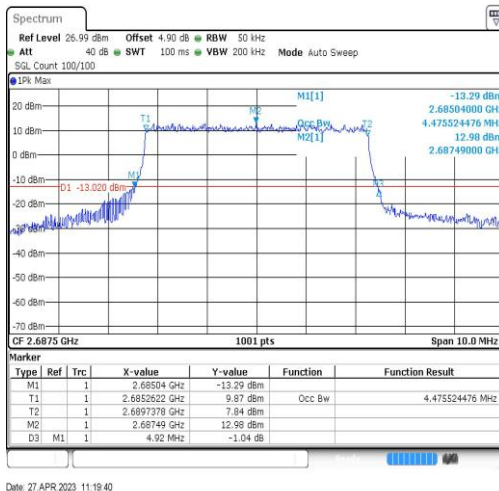
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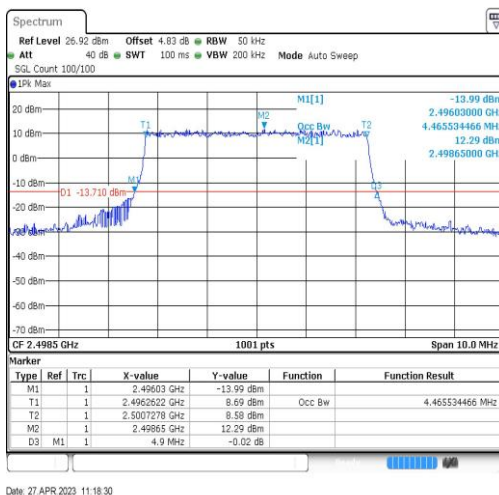
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Band41-5MHz-QPSK-41565-25RB#0-4.476



Band41-5MHz-16QAM-39675-25RB#0-4.466

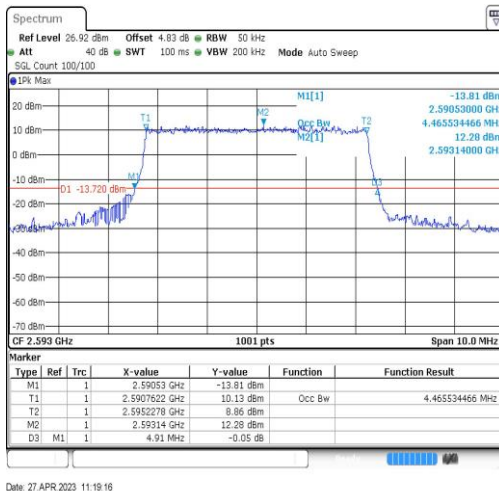


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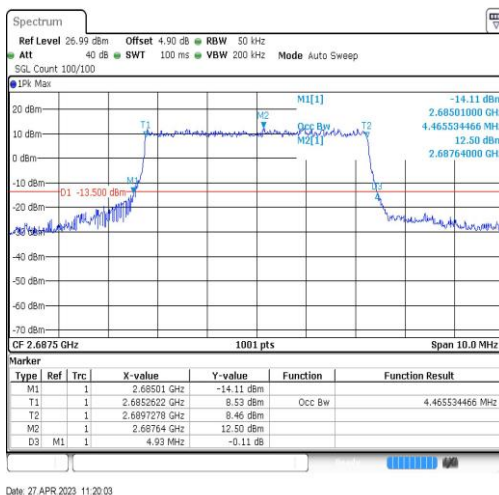
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Band41-5MHz-16QAM-40620-25RB#0-4.466



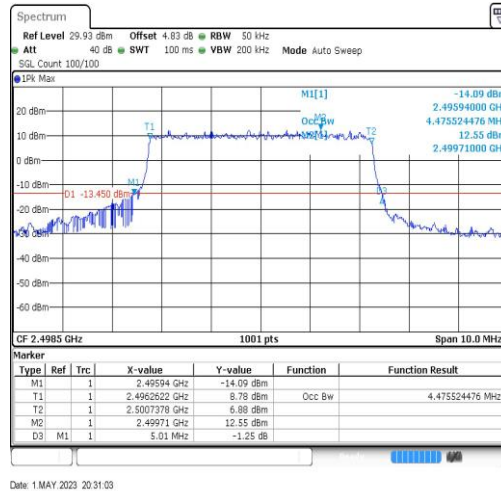
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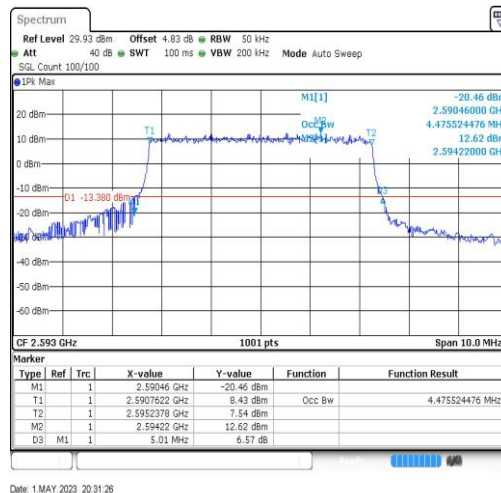
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Band41-5MHz-64QAM-39675-25RB#0-4.476



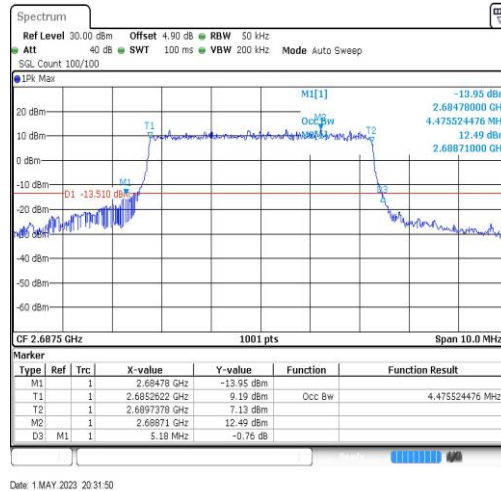
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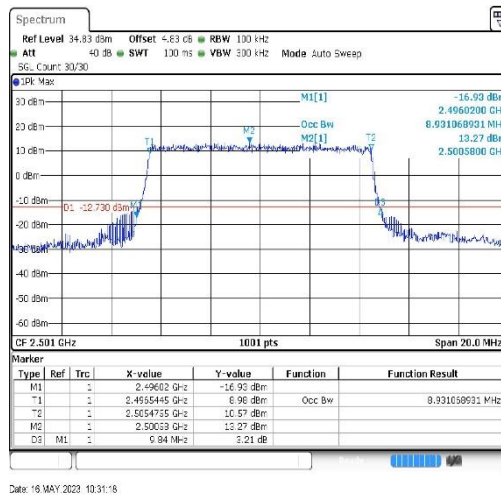
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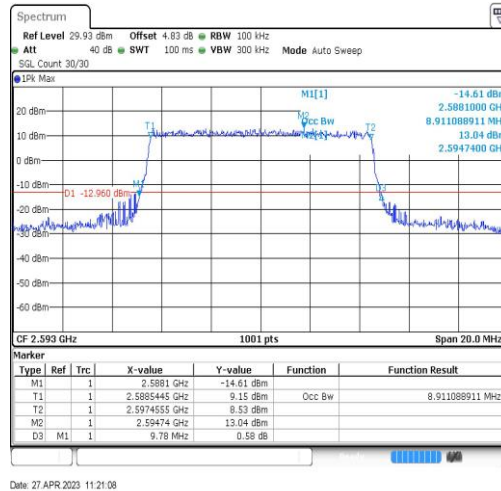
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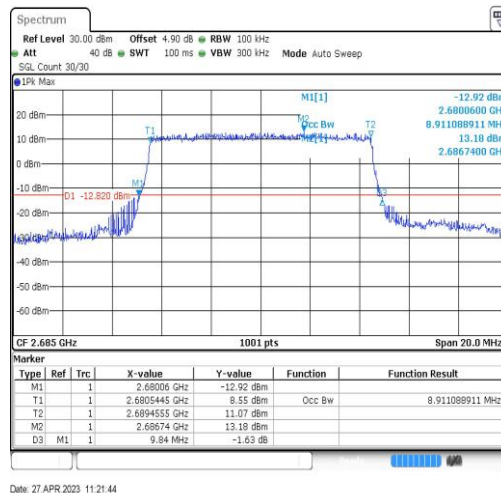
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Band41-10MHz-QPSK-40620-50RB#0-8.911



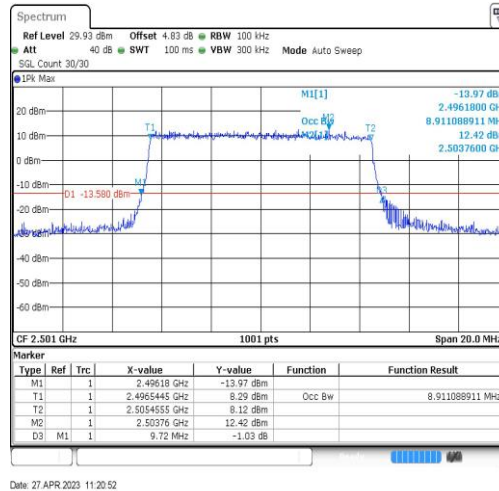
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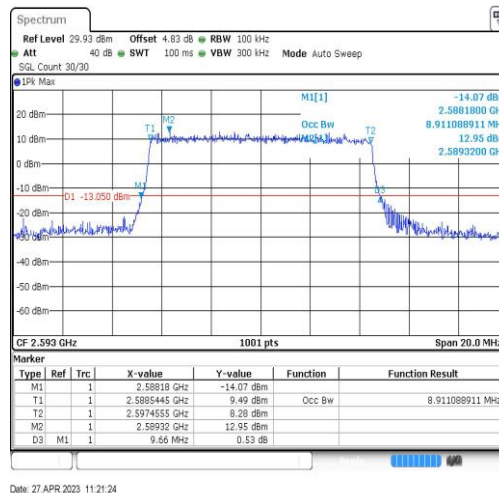
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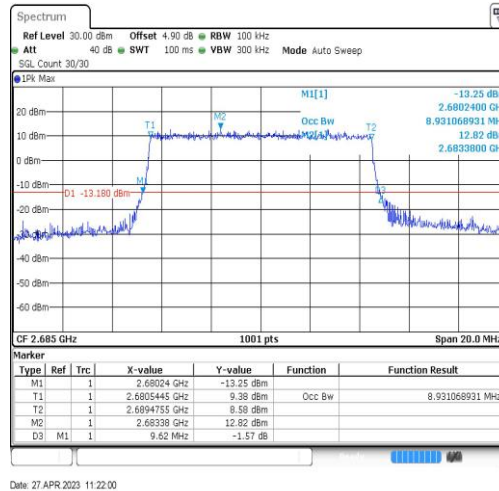


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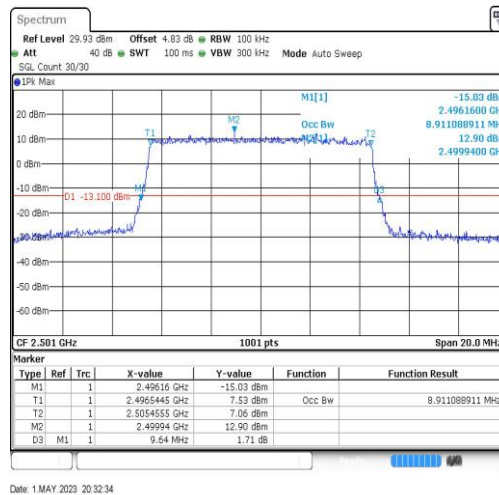


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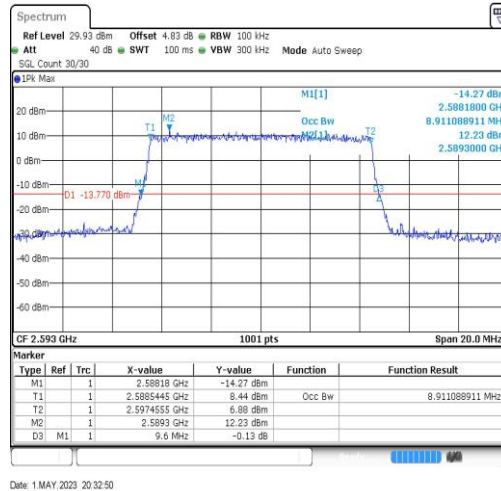


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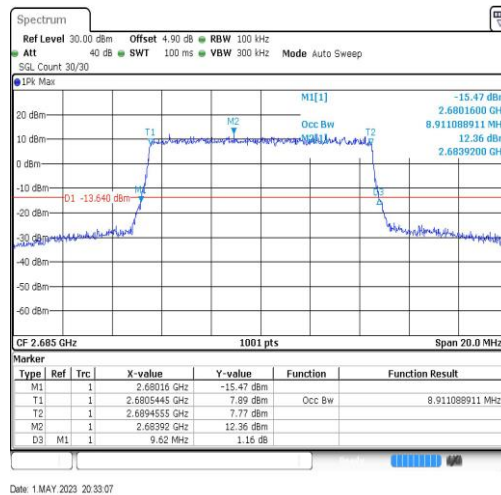


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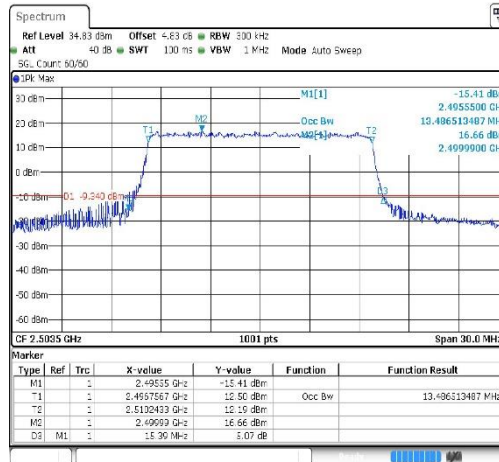
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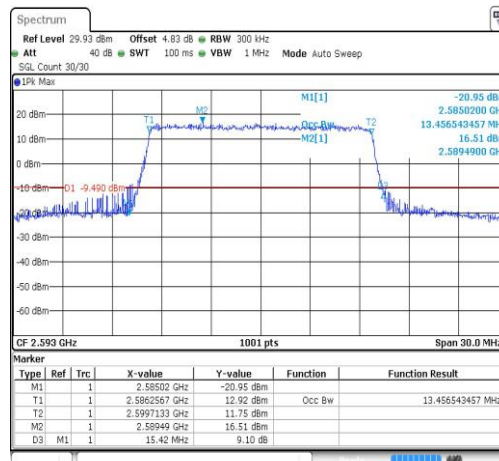
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Date: 16 MAY 2023 10:38:26

Band41-15MHz-QPSK-39725-75RB#0-13.636



Date: 27 APR 2023 11:23:06

Band41-15MHz-QPSK-40620-75RB#0-13.457



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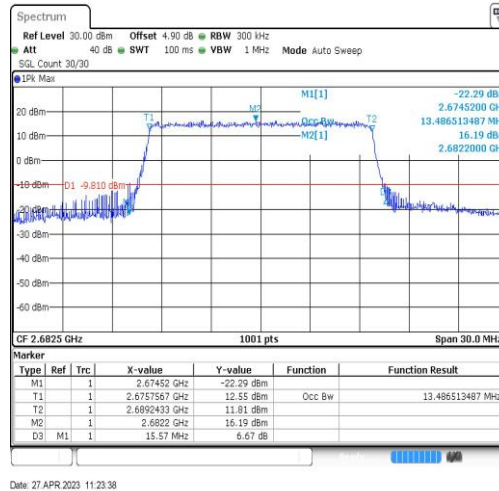
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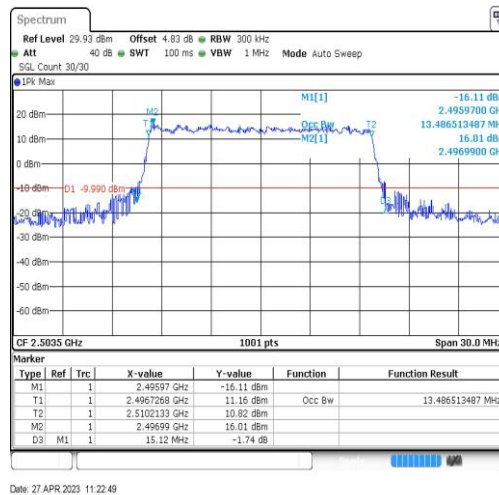
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Band41-15MHz-QPSK-41515-75RB#0-13.487



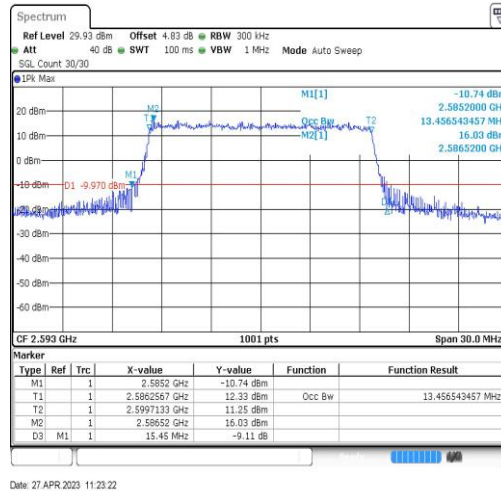
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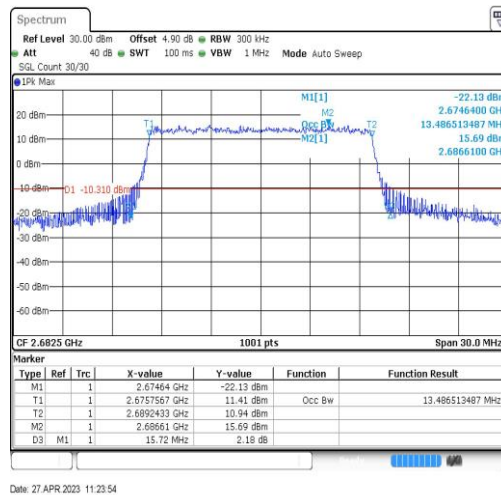
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Band41-15MHz-16QAM-40620-75RB#0-13.457



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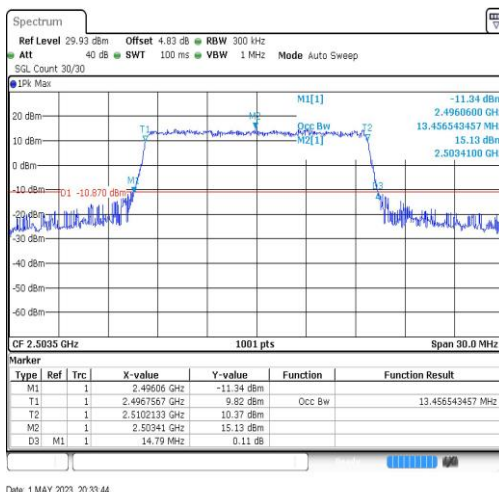
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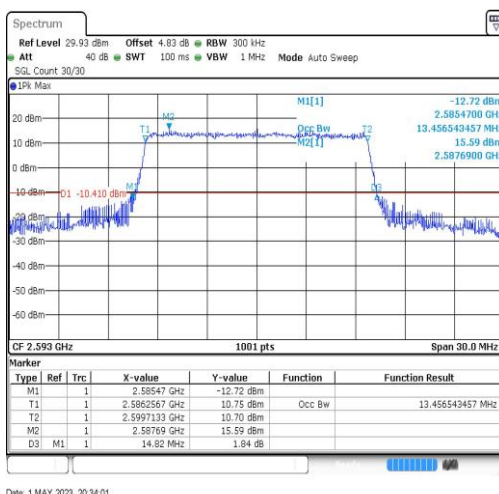
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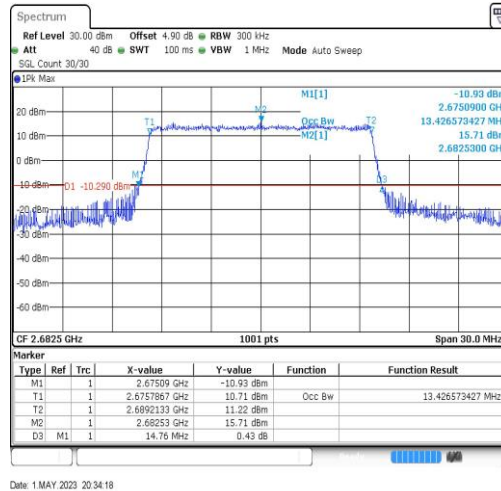
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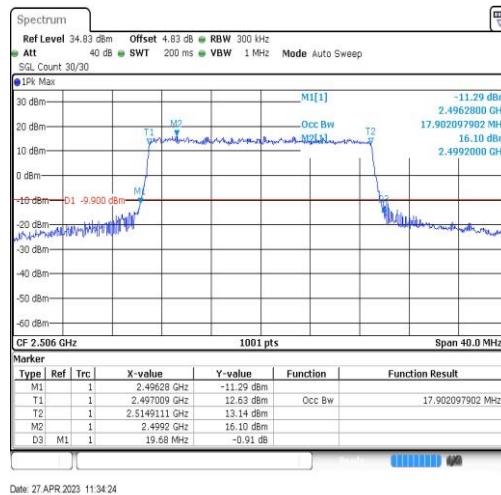
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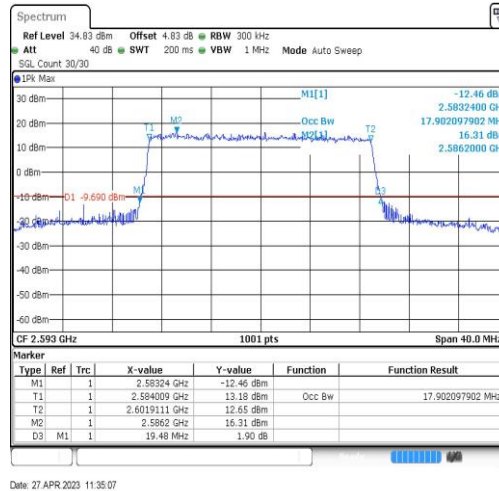
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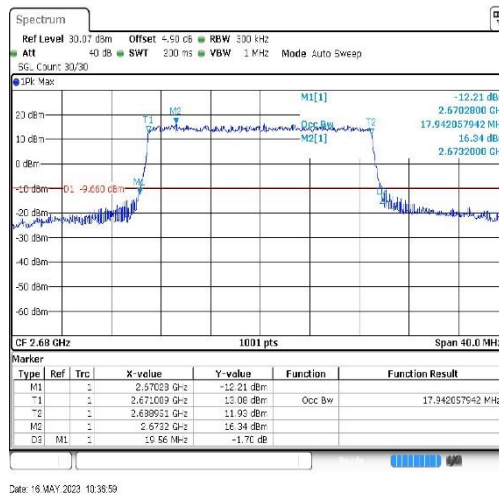
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Band41-20MHz-QPSK-40620-100RB#0-17.902



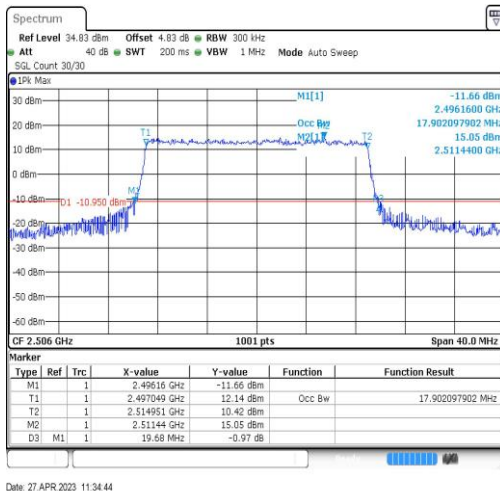
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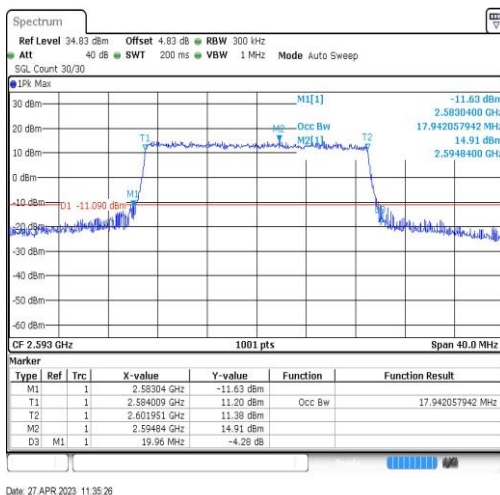
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Band41-20MHz-16QAM-39750-100RB#0-17.902



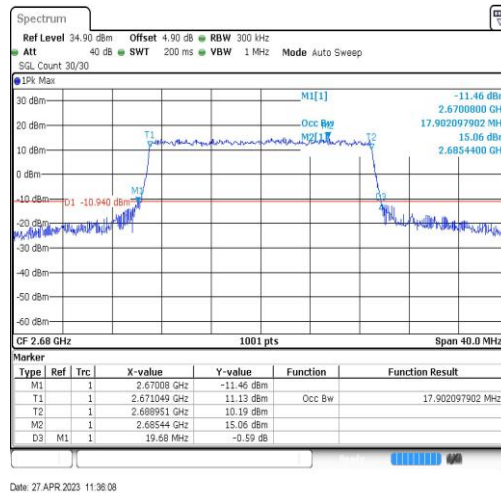
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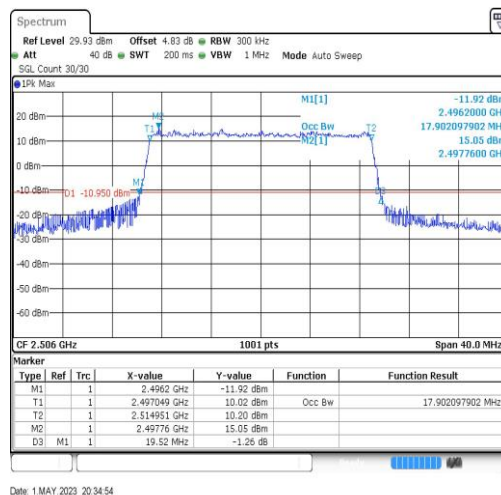
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Band41-20MHz-64QAM-39750-100RB#0-17.902



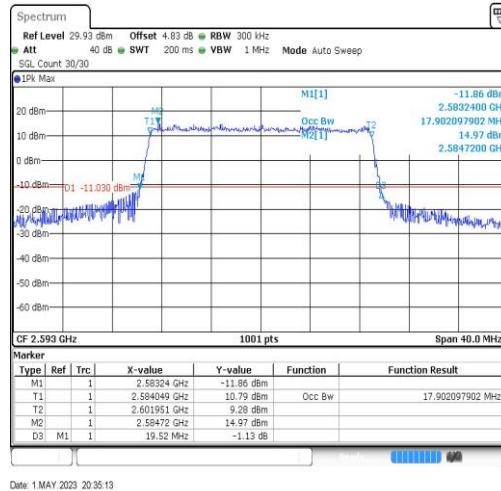
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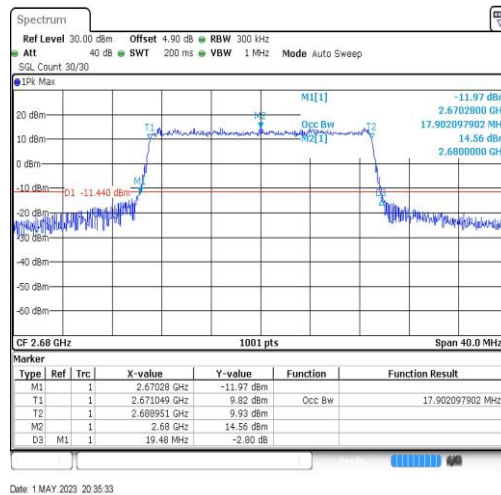
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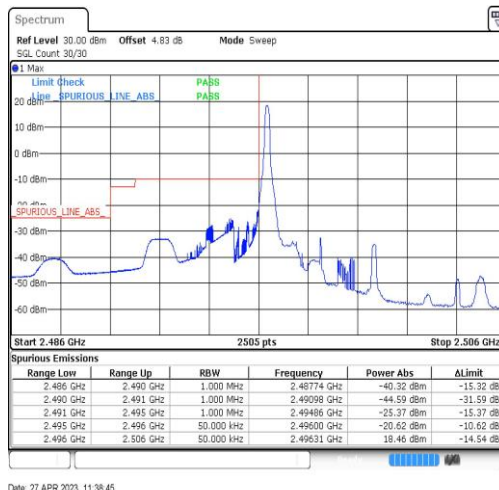
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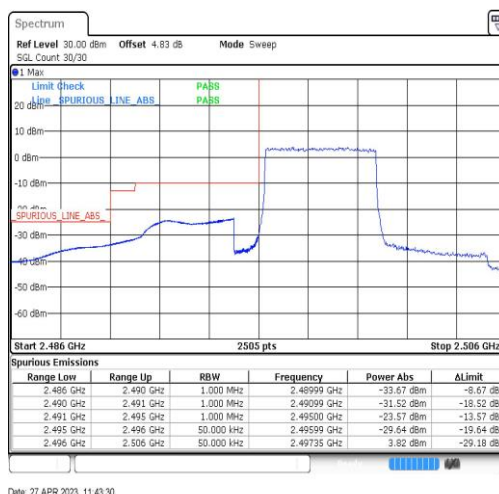
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Band Edge

Test Graphs



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



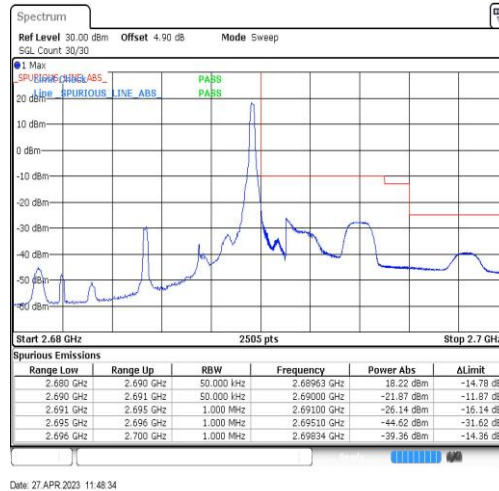
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Band41-5MHz-QPSK-41565-1RB#24



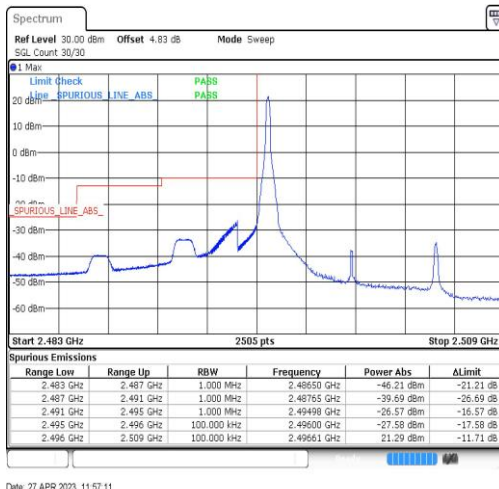
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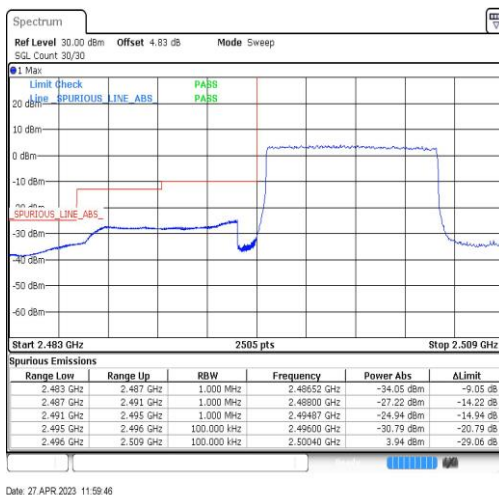
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Band41-10MHz-QPSK-39700-1RB#0



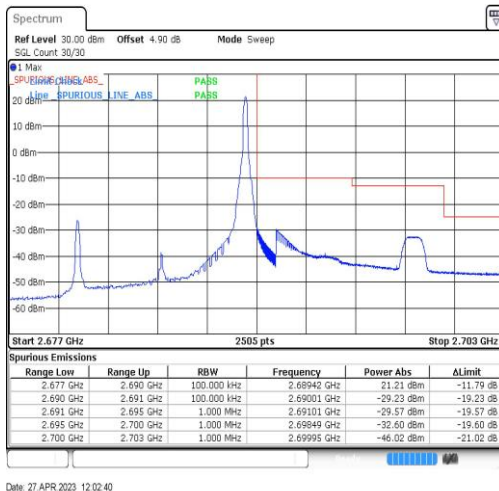
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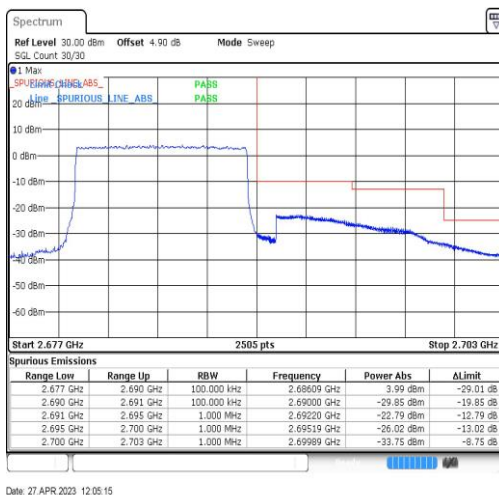
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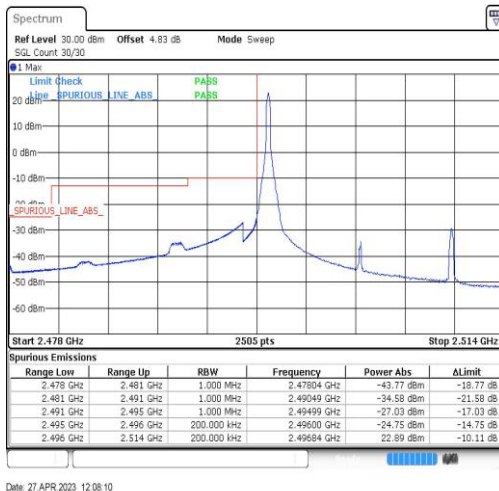
Band41-10MHz-QPSK-41540-50RB#0



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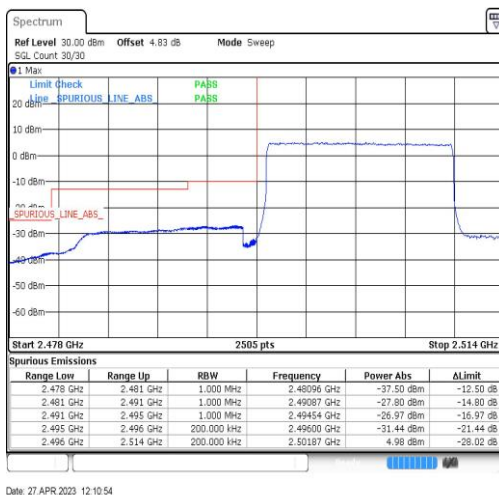
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Date: 27 APR 2023 12:08:10

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



Date: 27 APR 2023 12:10:54

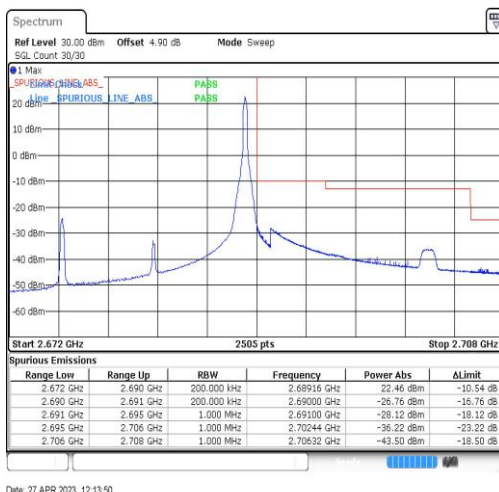
Band41-15MHz-QPSK-39725-75RB#0



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



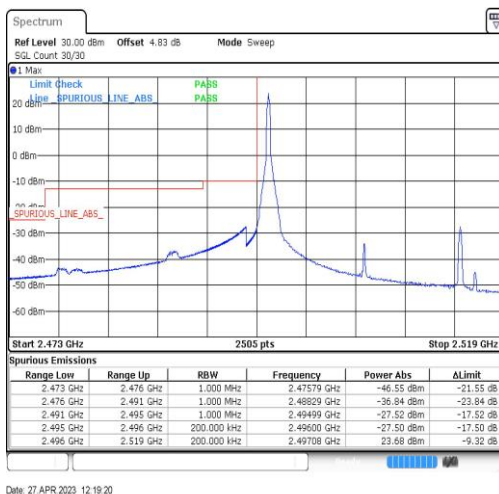
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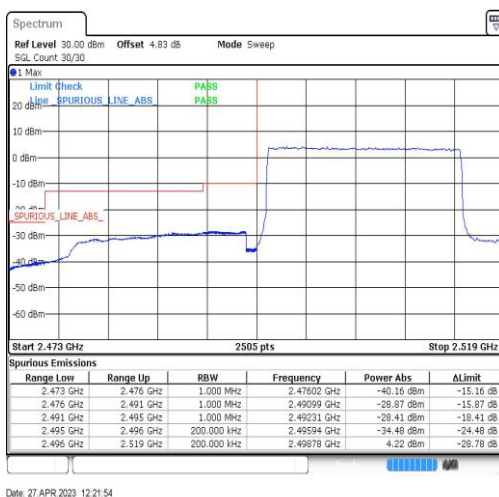
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Band41-20MHz-QPSK-39750-1RB#0



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

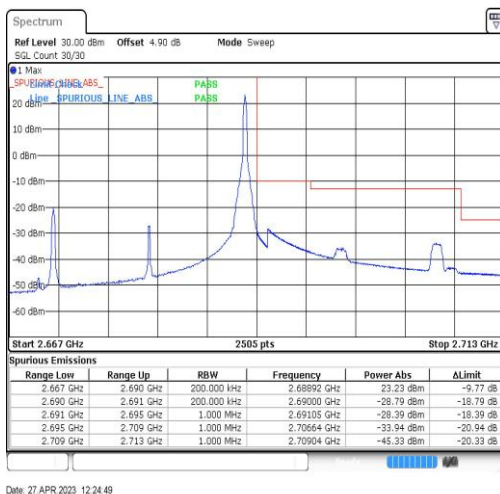


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Band41-20MHz-QPSK-41490-1RB#99



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



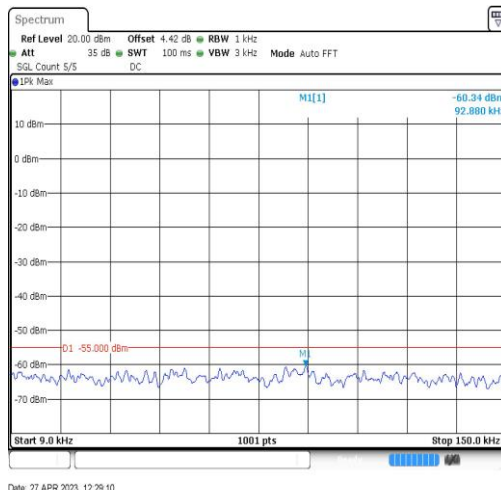
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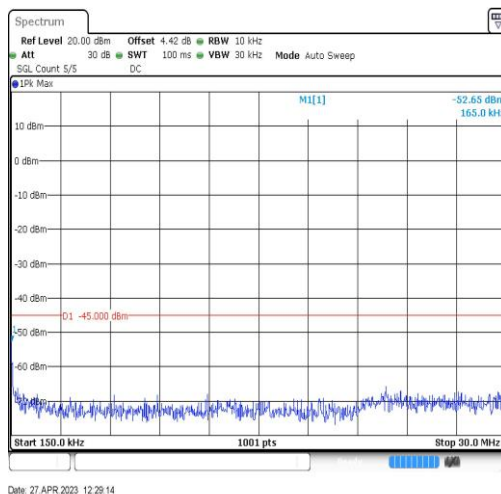
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Conducted Spurious Emission

Test Graphs



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



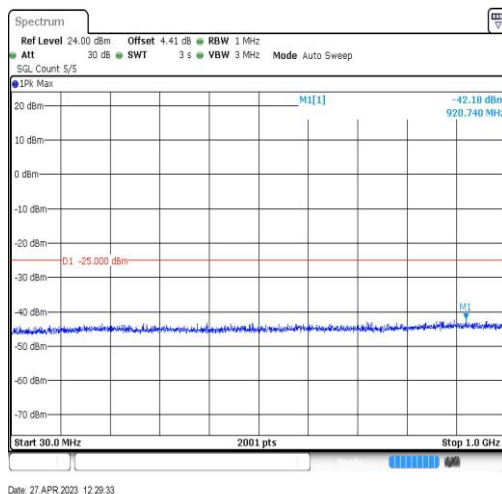
Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



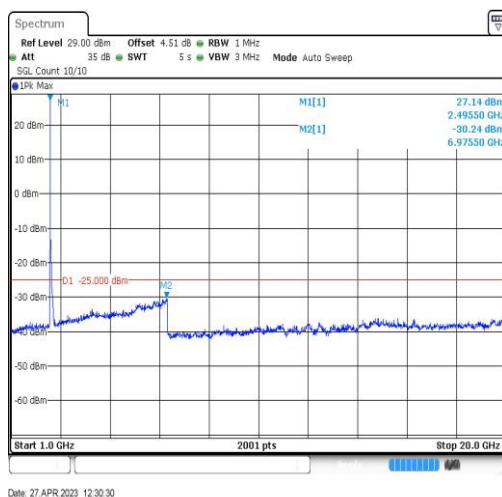
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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

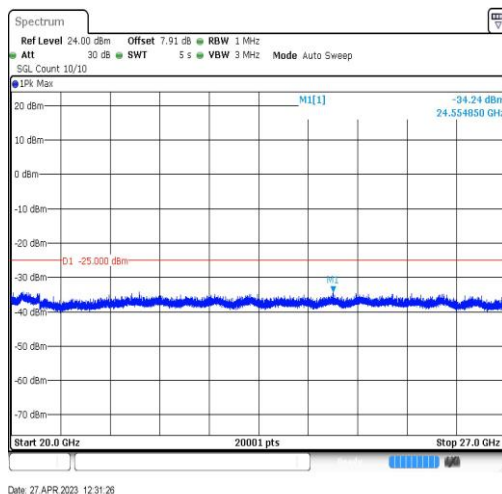


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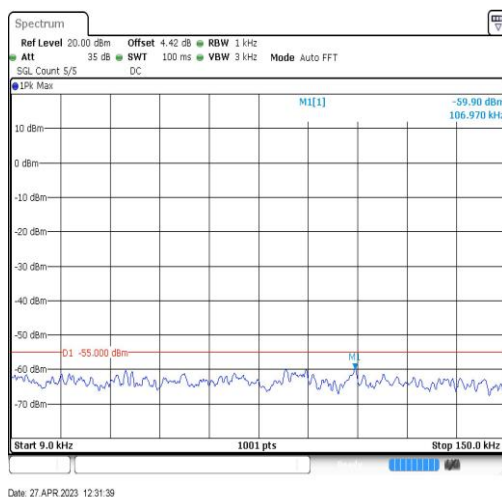
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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

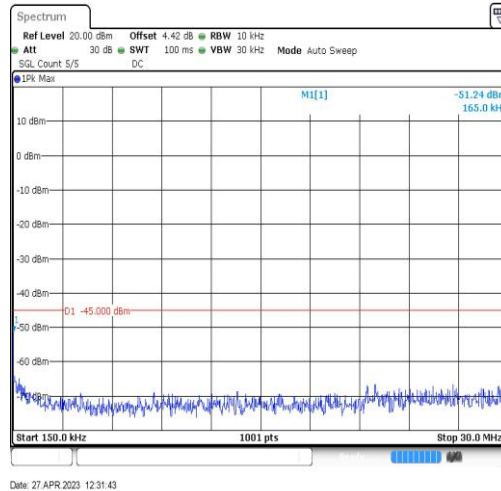


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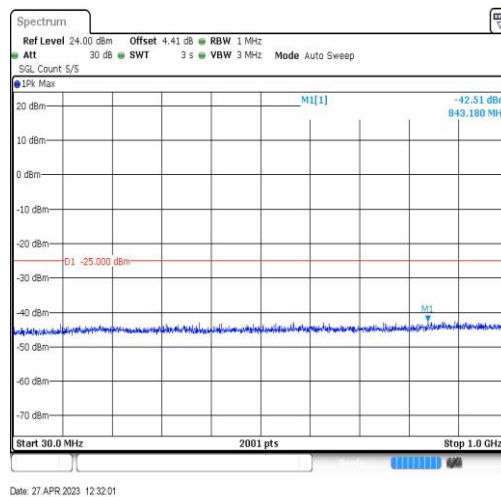
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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

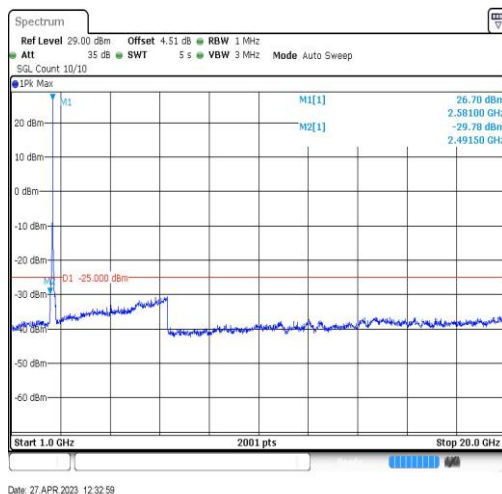


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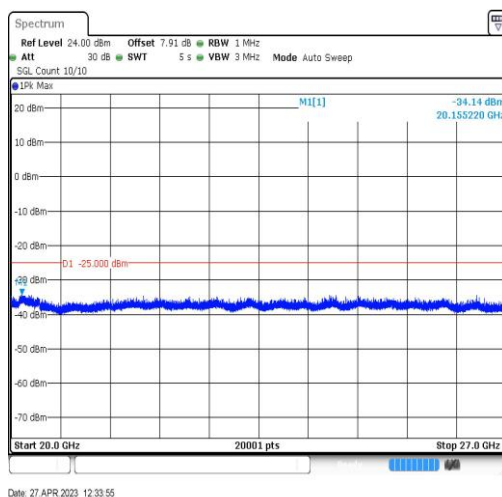
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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

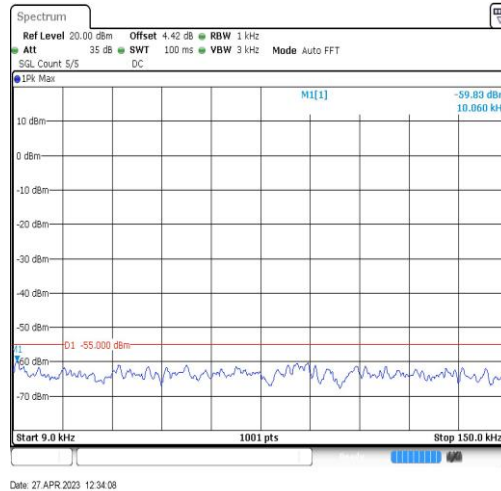


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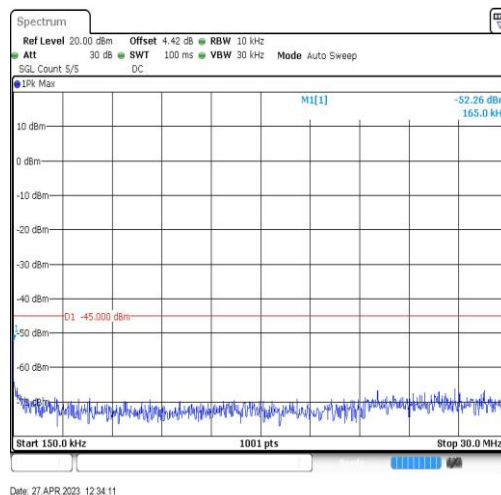
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Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



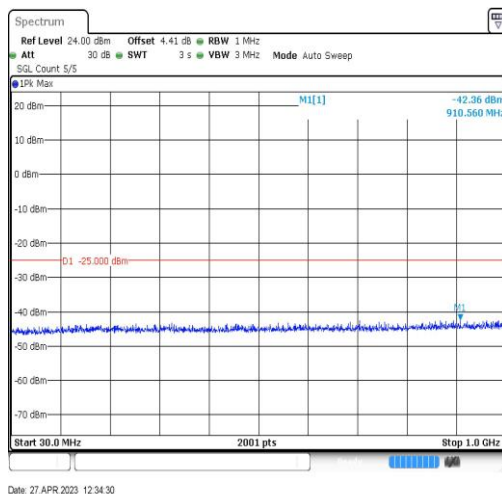
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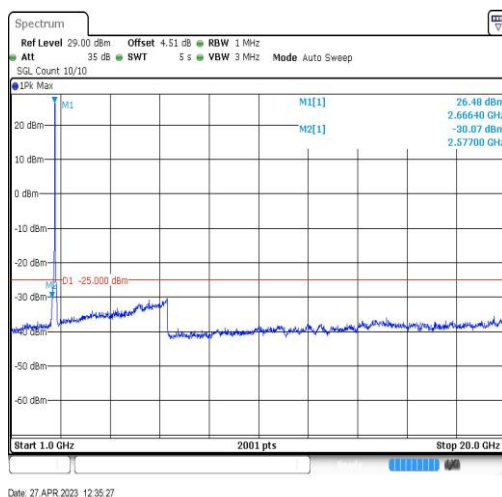
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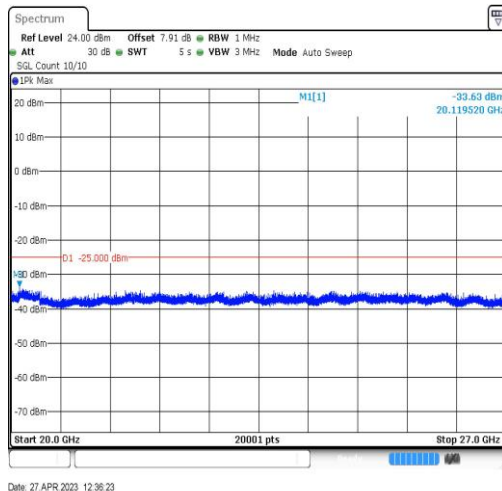
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Date: 27 APR 2023 12:36:23

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



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Field Strength of Spurious Radiation

Test Band = LTE_41 ANT 13 _20MHz_TM1

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	3945.0473	48.14	-44.19	29.88	-61.43	-25.00	36.43	374	323	Horizontal
2	5649.8825	47.62	-41.29	32.50	-56.43	-25.00	31.43	159	65	Horizontal
3	7494.2247	45.71	-38.29	36.89	-50.95	-25.00	25.95	106	0	Horizontal
4	9565.8283	45.21	-35.77	37.80	-48.02	-25.00	23.02	345	85	Horizontal
5	10971.3986	45.05	-37.11	40.13	-47.19	-25.00	22.19	301	338	Horizontal
6	15197.1099	46.26	-35.40	39.72	-44.68	-25.00	19.68	225	235	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	3729.0365	48.91	-44.63	29.47	-61.51	-25.00	36.51	383	90	Vertical
2	5715.1358	47.73	-41.18	32.50	-56.21	-25.00	31.21	212	125	Vertical
3	8020.001	45.26	-37.29	36.44	-50.85	-25.00	25.85	295	113	Vertical
4	9476.5738	45.46	-35.86	37.66	-48.00	-25.00	23.00	167	10	Vertical
5	11058.4029	45.08	-37.34	40.16	-47.36	-25.00	22.36	283	358	Vertical
6	15213.6107	46.08	-35.41	39.73	-44.86	-25.00	19.86	261	30	Vertical



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Test Band = LTE_41 ANT 13 _20MHz_TM1

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	3735.0368	48.69	-44.66	29.51	-61.72	-25.00	36.72	136	130	Horizontal
2	5682.8841	47.47	-41.19	32.50	-56.48	-25.00	31.48	345	216	Horizontal
3	7428.2214	45.77	-38.28	36.76	-51.01	-25.00	26.01	321	74	Horizontal
4	11035.9018	45.00	-37.20	40.14	-47.32	-25.00	22.32	221	74	Horizontal
5	15197.8599	46.17	-35.37	39.71	-44.75	-25.00	19.75	201	169	Horizontal
6	17990.9996	46.03	-43.11	48.04	-44.30	-25.00	19.30	323	165	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	3734.2867	48.63	-44.65	29.51	-61.77	-25.00	36.77	211	223	Vertical
2	5641.6321	47.43	-41.32	32.52	-56.63	-25.00	31.63	384	231	Vertical
3	7752.2376	49.65	-37.74	36.41	-46.94	-25.00	21.94	264	128	Vertical
4	9429.3215	45.82	-35.56	37.42	-47.58	-25.00	22.58	255	184	Vertical
5	13517.7759	46.06	-37.96	39.94	-47.22	-25.00	22.22	126	315	Vertical
6	15197.1099	46.52	-35.40	39.72	-44.42	-25.00	19.42	263	168	Vertical



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Test Band = LTE_41 ANT 13 _20MHz_TM1

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	3883.5442	48.13	-44.32	29.70	-61.75	-25.00	36.75	225	113	Horizontal
2	5706.1353	47.76	-41.16	32.50	-56.16	-25.00	31.16	261	287	Horizontal
3	8013.2507	46.63	-37.28	36.43	-49.48	-25.00	24.48	231	38	Horizontal
4	9469.8235	45.47	-35.82	37.62	-47.99	-25.00	22.99	254	291	Horizontal
5	11029.1515	45.01	-37.16	40.13	-47.28	-25.00	22.28	166	338	Horizontal
6	15197.8599	46.09	-35.37	39.71	-44.83	-25.00	19.83	263	137	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	3633.0317	48.74	-44.40	29.16	-61.76	-25.00	36.76	136	157	Vertical
2	5119.606	48.04	-42.53	31.62	-58.13	-25.00	33.13	264	228	Vertical
3	8013.2507	48.72	-37.28	36.43	-47.39	-25.00	22.39	266	121	Vertical
4	9520.826	45.40	-35.93	37.80	-47.99	-25.00	22.99	231	133	Vertical
5	10958.6479	45.10	-37.17	40.14	-47.19	-25.00	22.19	284	295	Vertical
6	15221.1111	46.19	-35.48	39.74	-44.81	-25.00	19.81	219	315	Vertical



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Test Band = LTE_41 ANT 31_20MHz_TM1

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	3999.05	48.52	-44.17	29.80	-61.11	-25.00	36.11	281	23	Horizontal
2	6125.4063	47.50	-40.61	33.35	-55.02	-25.00	30.02	292	330	Horizontal
3	7974.2487	45.75	-37.32	36.40	-50.43	-25.00	25.43	361	310	Horizontal
4	11036.6518	45.45	-37.20	40.14	-46.87	-25.00	21.87	305	246	Horizontal
5	15221.8611	46.45	-35.49	39.74	-44.56	-25.00	19.56	117	159	Horizontal
6	18000	46.09	-43.04	48.20	-44.01	-25.00	19.01	108	242	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	3975.0488	48.47	-44.18	29.85	-61.12	-25.00	36.12	363	128	Vertical
2	5687.3844	48.07	-41.18	32.50	-55.87	-25.00	30.87	244	191	Vertical
3	7478.4739	46.33	-38.29	36.86	-50.36	-25.00	25.36	141	336	Vertical
4	9874.0937	44.15	-35.16	38.39	-47.88	-25.00	22.88	265	96	Vertical
5	10971.3986	45.66	-37.11	40.13	-46.58	-25.00	21.58	159	163	Vertical
6	15206.8603	46.32	-35.35	39.71	-44.58	-25.00	19.58	311	244	Vertical



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Test Band = LTE_41 ANT 31_20MHz_TM1

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	3929.2965	48.52	-44.19	29.82	-61.11	-25.00	36.11	345	243	Horizontal
2	6083.4042	47.15	-40.66	33.43	-55.34	-25.00	30.34	142	49	Horizontal
3	8972.5486	45.79	-36.09	36.81	-48.75	-25.00	23.75	268	21	Horizontal
4	10966.1483	45.44	-37.13	40.13	-46.82	-25.00	21.82	222	176	Horizontal
5	15218.1109	46.33	-35.45	39.74	-44.64	-25.00	19.64	216	192	Horizontal
6	17993.2497	46.76	-43.09	48.08	-43.51	-25.00	18.51	233	212	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	4282.5641	48.23	-43.44	29.60	-60.87	-25.00	35.87	321	120	Vertical
2	6085.6543	47.33	-40.64	33.43	-55.14	-25.00	30.14	123	41	Vertical
3	7705.7353	45.43	-37.58	36.75	-50.66	-25.00	25.66	374	338	Vertical
4	11090.6545	45.86	-37.53	40.19	-46.74	-25.00	21.74	358	192	Vertical
5	15195.6098	46.45	-35.46	39.73	-44.54	-25.00	19.54	326	283	Vertical
6	17999.25	46.14	-43.05	48.19	-43.98	-25.00	18.98	336	17	Vertical



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Test Band = LTE_41 ANT 31_20MHz_TM1

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	3989.2995	48.34	-44.17	29.82	-61.27	-25.00	36.27	122	305	Horizontal
2	5694.8847	47.94	-41.16	32.50	-55.98	-25.00	30.98	273	38	Horizontal
3	7878.994	45.79	-37.57	36.63	-50.41	-25.00	25.41	303	160	Horizontal
4	10956.3978	45.51	-37.18	40.14	-46.79	-25.00	21.79	173	215	Horizontal
5	13639.282	45.86	-37.91	40.14	-47.17	-25.00	22.17	207	219	Horizontal
6	15200.11	46.20	-35.29	39.70	-44.65	-25.00	19.65	399	347	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	3915.7958	48.66	-44.20	29.76	-61.04	-25.00	36.04	336	163	Vertical
2	5107.6054	48.52	-42.52	31.55	-57.71	-25.00	32.71	333	44	Vertical
3	7704.9852	45.65	-37.58	36.76	-50.43	-25.00	25.43	241	195	Vertical
4	10934.6467	45.67	-37.27	40.17	-46.69	-25.00	21.69	218	117	Vertical
5	15187.3594	46.46	-35.79	39.78	-44.81	-25.00	19.81	116	101	Vertical
6	17990.2495	46.04	-43.12	48.02	-44.32	-25.00	19.32	205	212	Vertical



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Test on the worst case:

Test Band = LTE_41 ANT 31_20MHz_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2999	37.48	-17.44	28.59	-46.63	-25.00	21.63	Horizontal
2	4426.5	45.87	-43.29	30.10	-62.58	-25.00	37.58	Horizontal
3	5665.5	44.31	-41.24	32.50	-59.69	-25.00	34.69	Horizontal
4	7397	42.96	-38.30	36.69	-53.91	-25.00	28.91	Horizontal
5	11110.5	42.06	-37.76	40.20	-50.76	-25.00	25.76	Horizontal
6	17992	38.80	-43.10	48.06	-51.50	-25.00	26.50	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2970	37.05	-17.11	28.42	-46.90	-25.00	21.90	Vertical
2	4318.5	46.04	-43.42	29.65	-62.99	-25.00	37.99	Vertical
3	6361	43.50	-40.79	33.86	-58.69	-25.00	33.69	Vertical
4	8517	41.23	-36.53	36.53	-54.03	-25.00	29.03	Vertical
5	11107.5	41.83	-37.71	40.20	-50.94	-25.00	25.94	Vertical
6	17994.5	38.93	-43.08	48.10	-51.31	-25.00	26.31	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-5.30	-0.002044	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-2.30	-0.000887	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-5.20	-0.002005	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-1.00	-0.000386	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-7.20	-0.002777	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-6.50	-0.002507	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-5.40	-0.002083	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-6.20	-0.002391	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-2.90	-0.001118	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-9.90	-0.003818	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-7.50	-0.002892	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-5.00	-0.001928	PASS

---End of Attachment---



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