

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	22.74	25.74	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.77	25.77	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.56	25.56	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.61	24.61	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.45	25.45	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.58	25.58	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.65	25.65	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.54	24.54	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.4	25.4	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.49	25.49	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.37	25.37	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.24	24.24	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.11	24.11	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.14	24.14	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.07	24.07	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.93	23.93	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.11	24.11	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.11	24.11	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	20.93	23.93	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.76	23.76	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	20.25	23.25	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.01	24.01	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	20.88	23.88	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.65	23.65	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	20.24	23.24	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	20.33	23.33	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	19.9	22.9	33	PASS



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Band41	5MHz	64QAM	39675	25RB#0	19.67	22.67	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	19.83	22.83	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	20.34	23.34	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	20.17	23.17	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	19.6	22.6	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	19.65	22.65	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	19.85	22.85	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	19.65	22.65	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	19.72	22.72	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.72	25.72	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.96	25.96	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.81	25.81	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.86	24.86	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.56	25.56	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.79	25.79	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.53	25.53	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.66	24.66	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.17	25.17	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.45	25.45	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.35	25.35	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.31	24.31	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.35	24.35	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	20.99	23.99	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.37	24.37	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.98	23.98	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.14	24.14	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.86	24.86	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	21	24	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.82	23.82	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	20.97	23.97	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.01	24.01	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	20.71	23.71	33	PASS



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Band41	10MHz	16QAM	41540	50RB#0	20.65	23.65	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	20.35	23.35	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	20.67	23.67	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	20.37	23.37	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	19.76	22.76	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	20.42	23.42	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	20.2	23.2	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	19.92	22.92	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	19.58	22.58	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	19.99	22.99	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	19.77	22.77	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	19.64	22.64	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	19.86	22.86	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.44	25.44	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.47	25.47	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.4	25.4	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.53	24.53	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.52	25.52	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.46	25.46	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.6	25.6	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.57	24.57	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.22	25.22	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.04	25.04	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.33	25.33	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.17	24.17	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.23	24.23	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	20.69	23.69	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	20.8	23.8	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.64	23.64	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.57	24.57	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.14	24.14	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	20.66	23.66	33	PASS



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Band41	15MHz	16QAM	40620	75RB#0	20.6	23.6	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	20.6	23.6	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	20.47	23.47	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	20.49	23.49	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.36	23.36	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	20.3	23.3	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	20.21	23.21	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	20	23	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	19.52	22.52	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	20.46	23.46	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	20.02	23.02	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	20.02	23.02	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	19.4	22.4	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	19.71	22.71	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	19.99	22.99	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	19.69	22.69	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	19.48	22.48	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.5	25.5	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.65	25.65	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.33	25.33	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.7	24.7	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.43	25.43	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.61	25.61	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.21	25.21	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.45	24.45	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.35	25.35	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.2	25.2	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.33	25.33	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.25	24.25	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	20.8	23.8	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	20.84	23.84	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	20.63	23.63	33	PASS



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Band41	20MHz	16QAM	39750	100RB#0	20.83	23.83	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.49	24.49	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.6	24.6	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.18	24.18	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.49	23.49	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	20.89	23.89	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	20.92	23.92	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	20.46	23.46	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.17	23.17	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	19.83	22.83	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	20.12	23.12	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	20.09	23.09	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	19.89	22.89	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	20.38	23.38	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	20.18	23.18	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	20.06	23.06	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	19.37	22.37	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	19.78	22.78	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	19.94	22.94	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	19.62	22.62	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	19.47	22.47	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	6.78	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.04	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.28	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	7.58	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	7.76	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.86	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.58	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.72	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.92	13	PASS

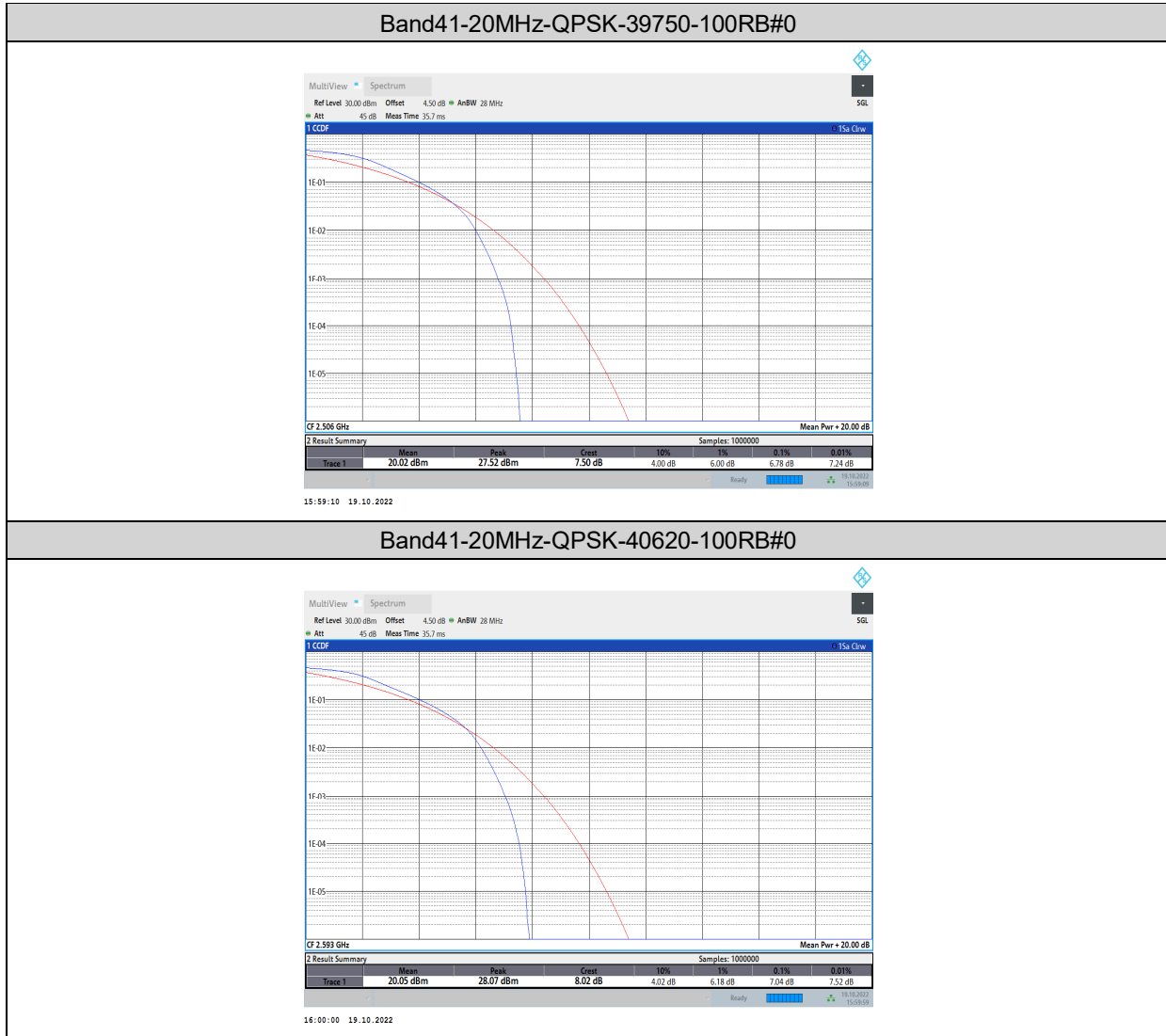


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Test Graphs

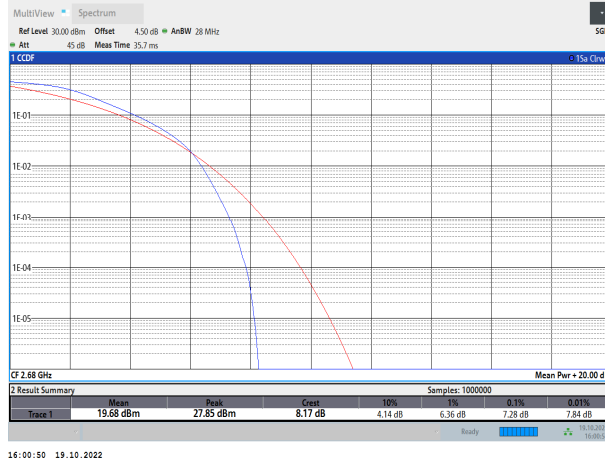


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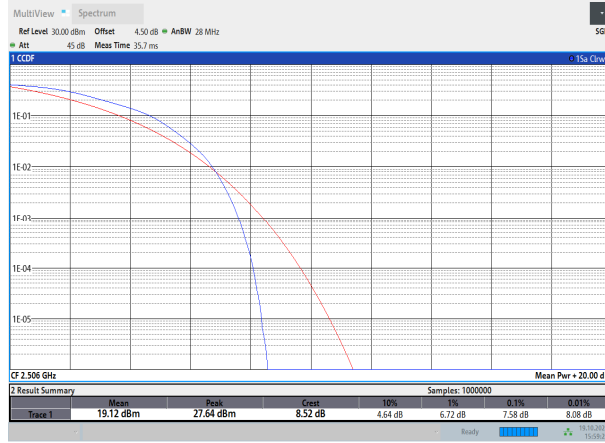
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Band41-20MHz-QPSK-41490-100RB#0



16:00:50 19.10.2022

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



15:59:26 19.10.2022

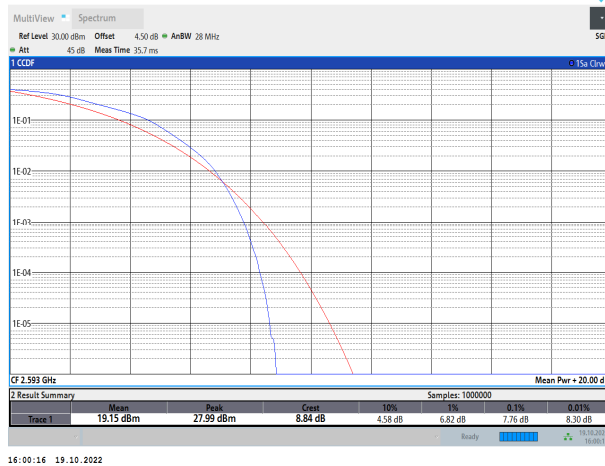


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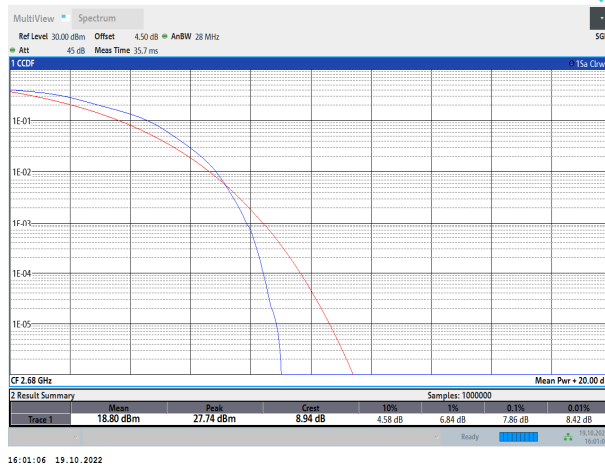
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Band41-20MHz-16QAM-40620-100RB#0



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

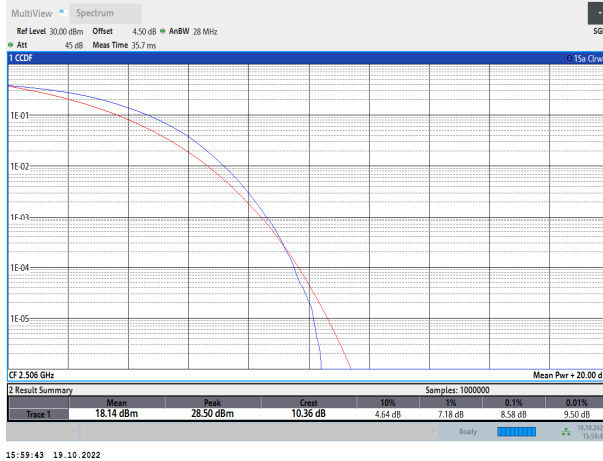


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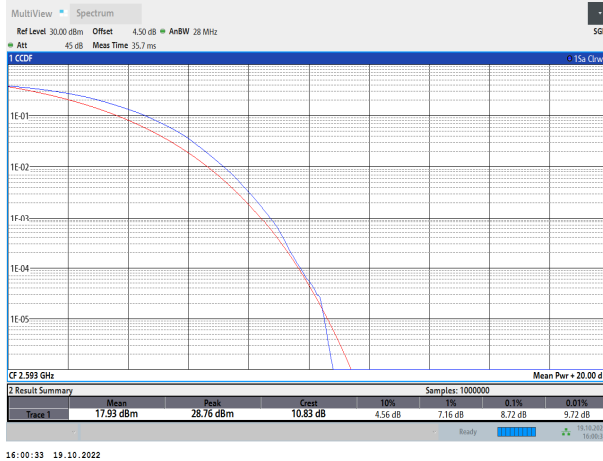
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Band41-20MHz-64QAM-39750-100RB#0



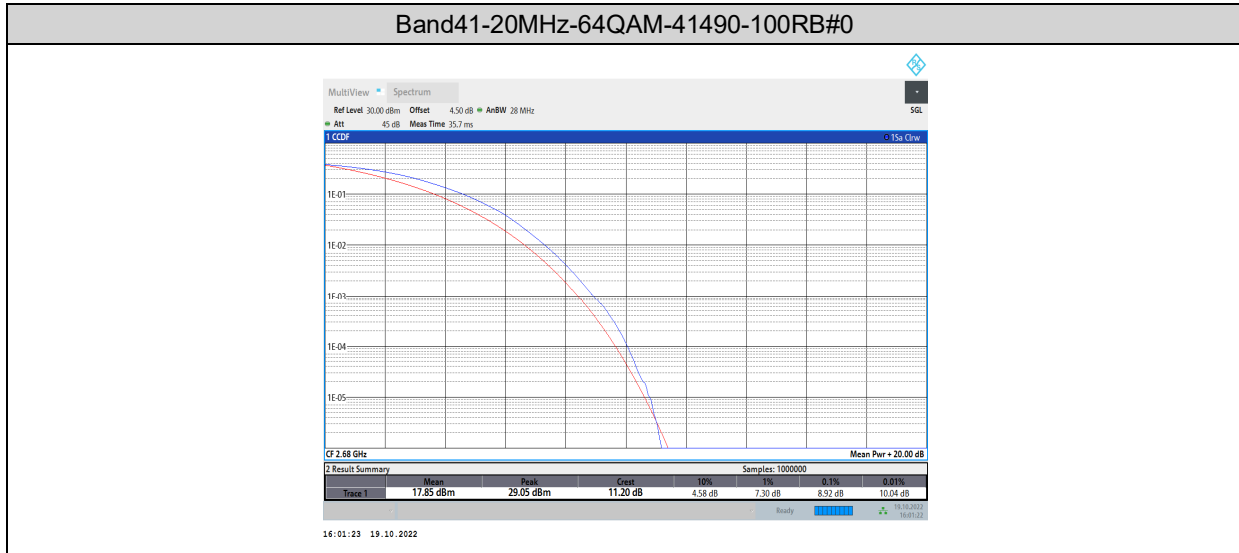
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Modulation Characteristics

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

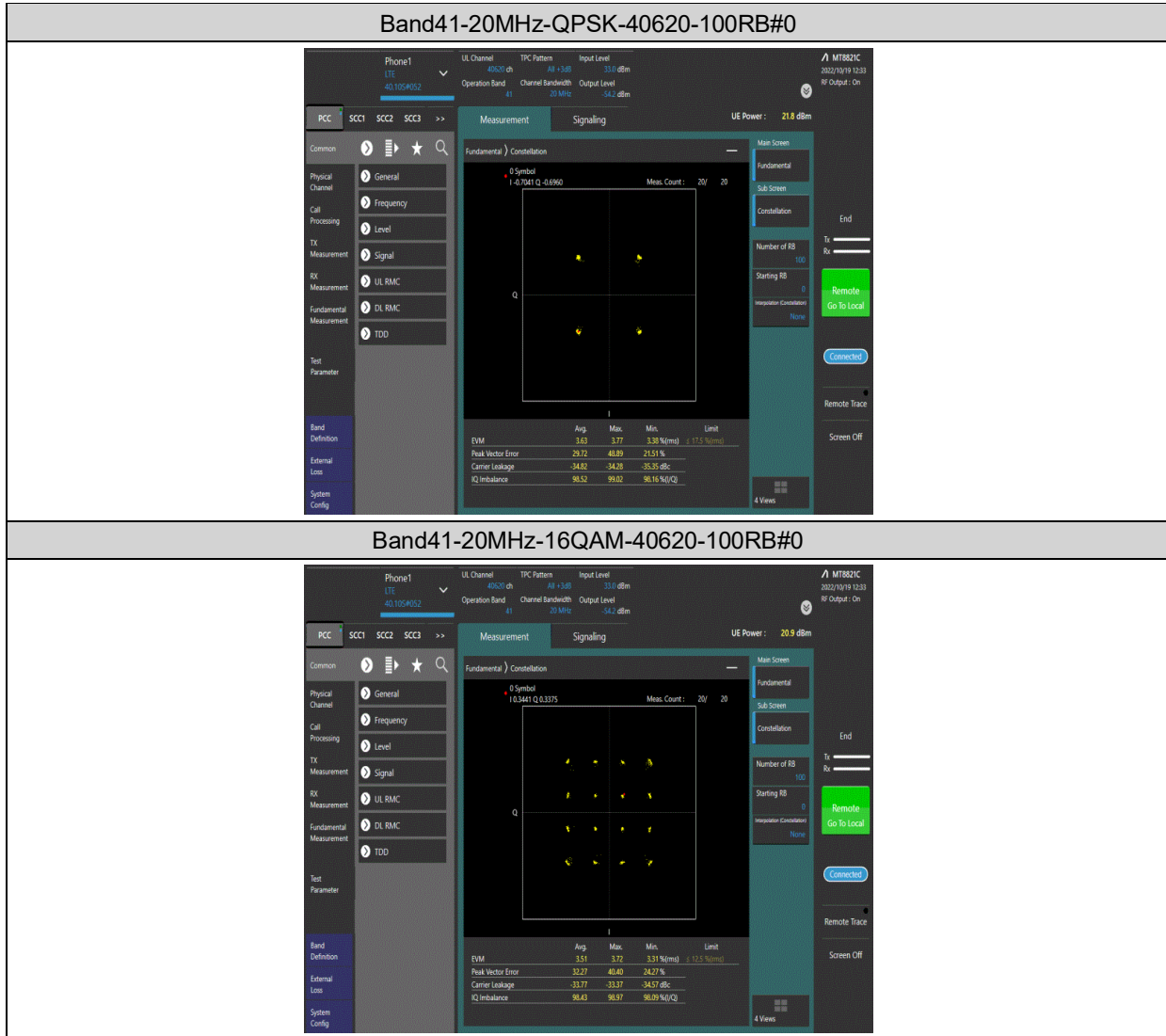


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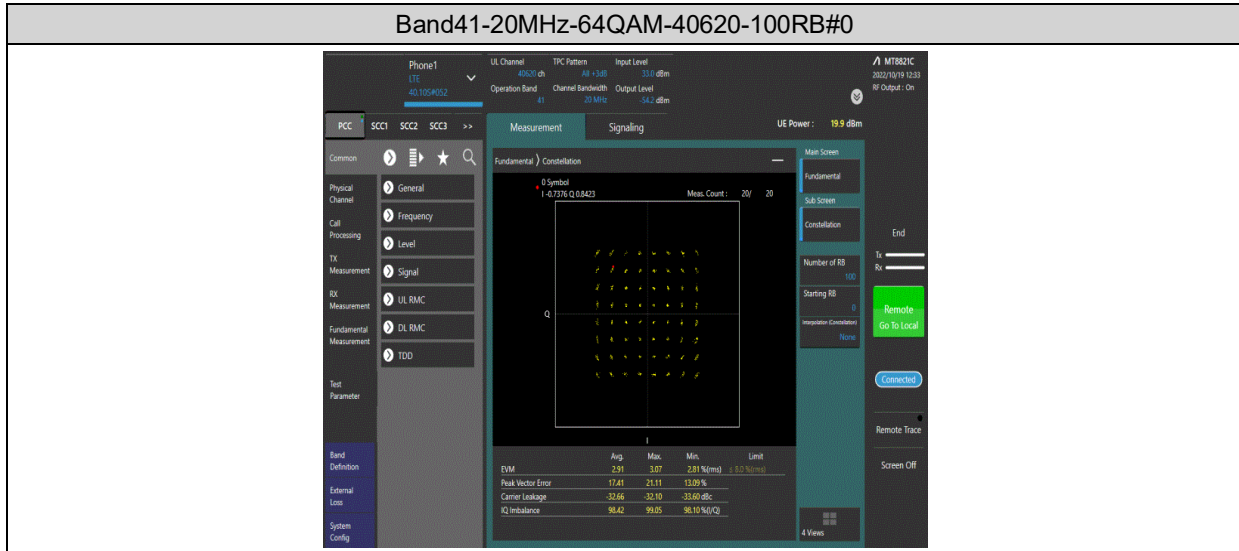
Test Graphs



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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	4.474	5.03	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.47	5.08	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	5.07	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.47	4.93	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.471	4.89	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.47	4.88	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.473	4.89	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.476	4.91	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.473	4.91	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.912	10.02	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.908	9.76	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.916	9.68	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.908	9.78	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.899	9.68	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.905	9.66	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.921	9.66	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.919	9.58	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.918	9.64	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.434	15.48	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.445	15.48	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.436	14.88	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.449	15.69	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.447	15.99	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.439	15.57	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.406	14.76	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.422	15.18	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.416	15.45	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.869	19.36	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.847	19.44	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.858	19.44	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.829	19.36	PASS



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Report No.: SEWA221000060RG01

Rev.: 01

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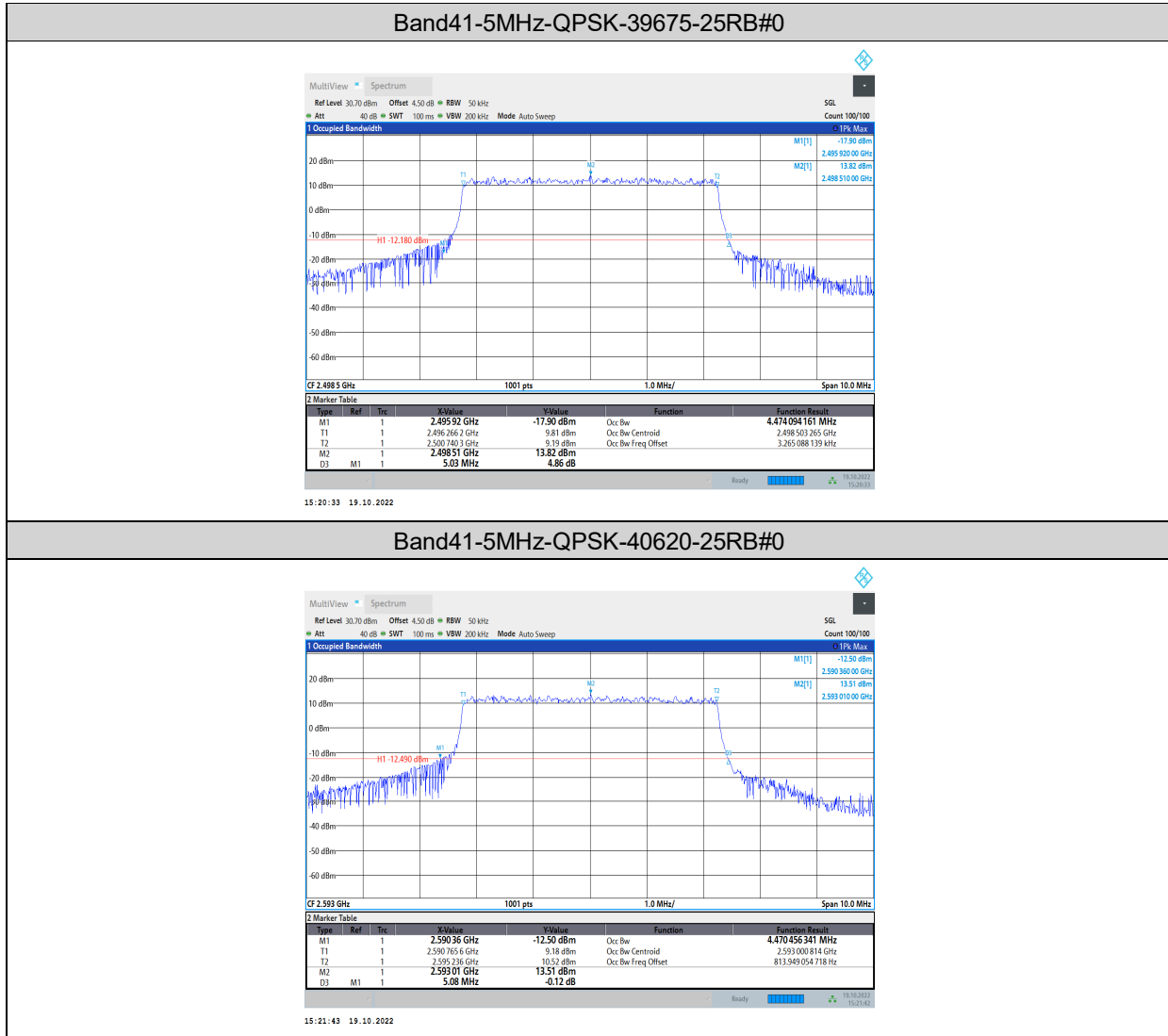
Band41	20MHz	16QAM	40620	100RB#0	17.848	19.40	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.839	19.36	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.827	19.52	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.831	19.84	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.845	19.40	PASS



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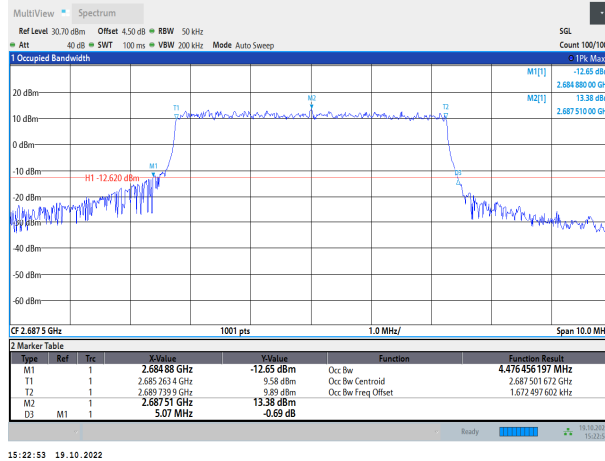


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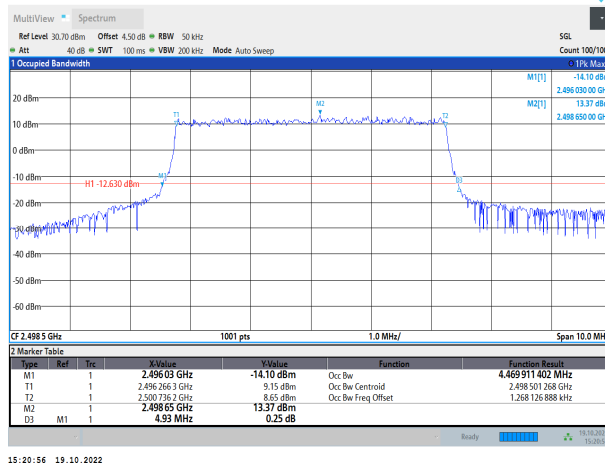
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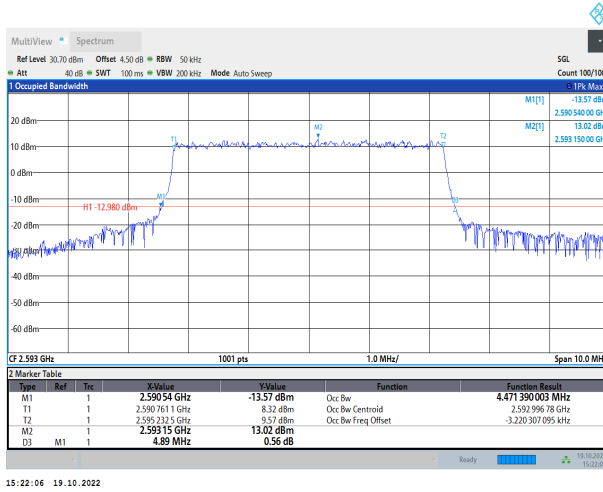


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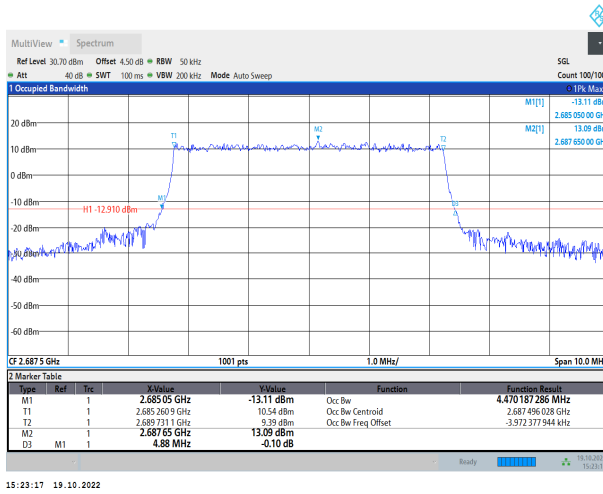
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Band41-5MHz-16QAM-40620-25RB#0



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

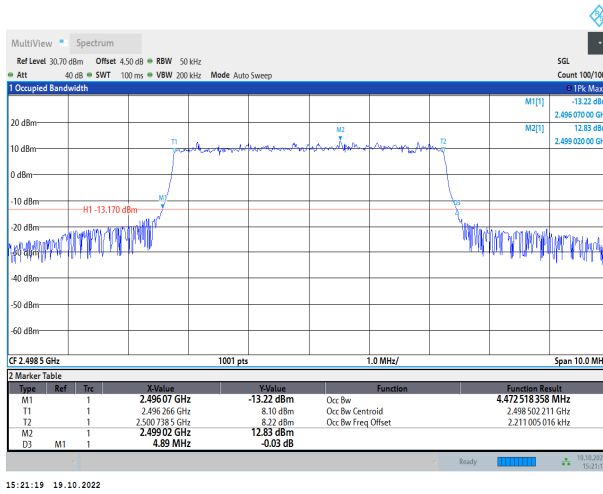


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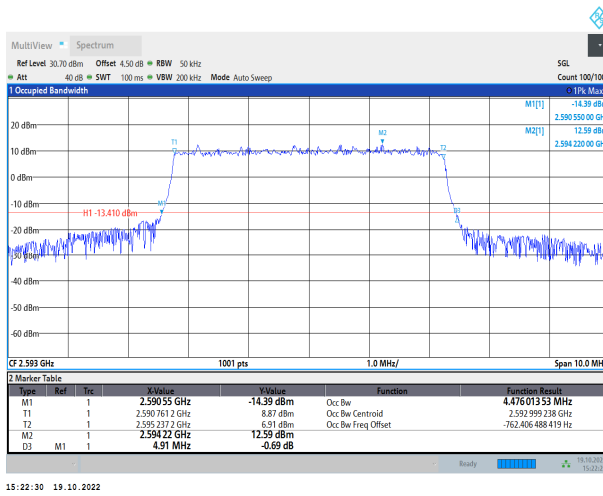
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Band41-5MHz-64QAM-39675-25RB#0



Band41-5MHz-64QAM-40620-25RB#0

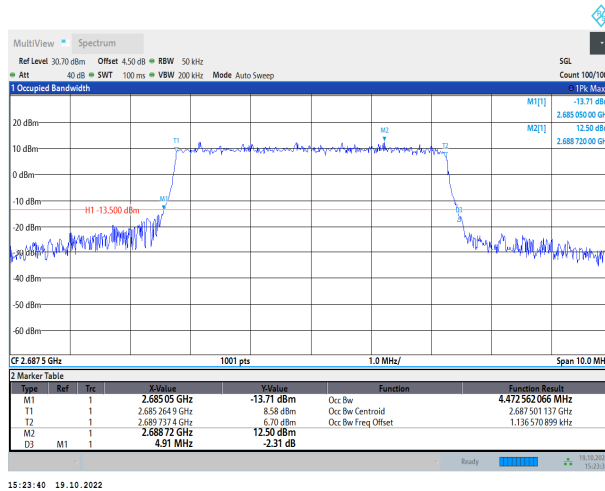


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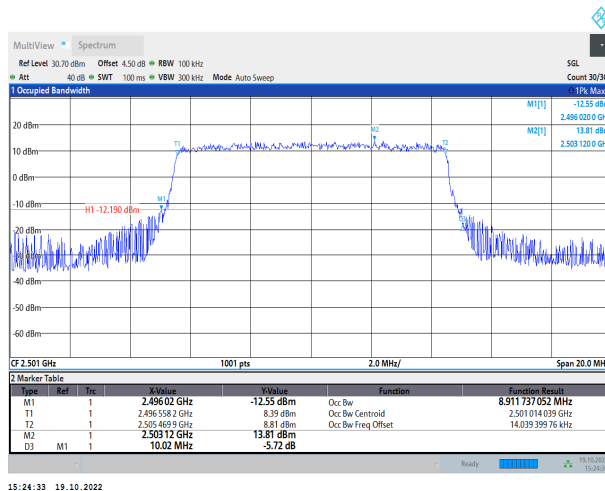
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Band41-5MHz-64QAM-41565-25RB#0



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

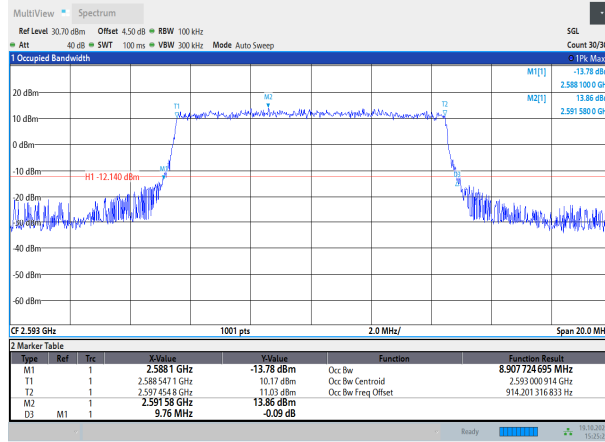


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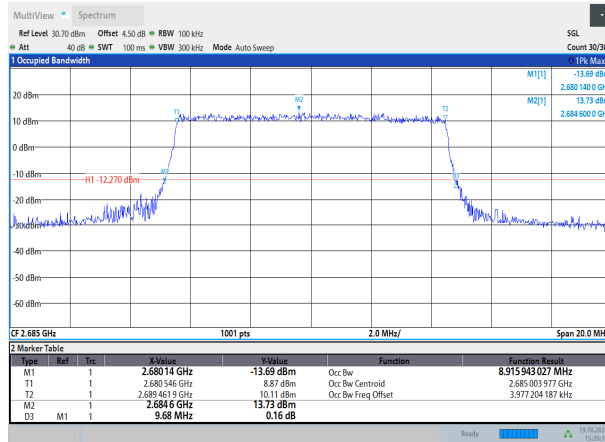
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Band41-10MHz-QPSK-40620-50RB#0



15:25:23 19.10.2022

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



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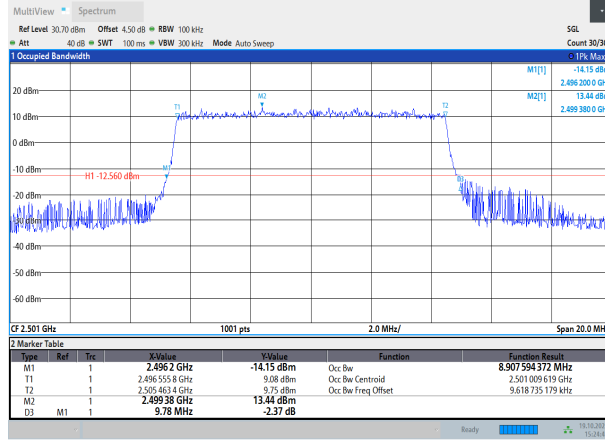


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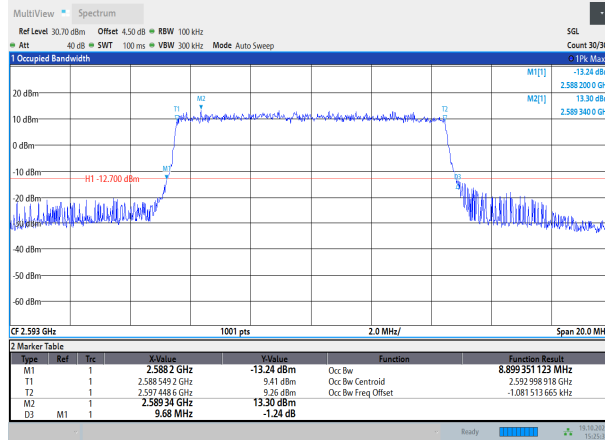
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Band41-10MHz-16QAM-39700-50RB#0



15:24:50 19.10.2022

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



15:25:39 19.10.2022

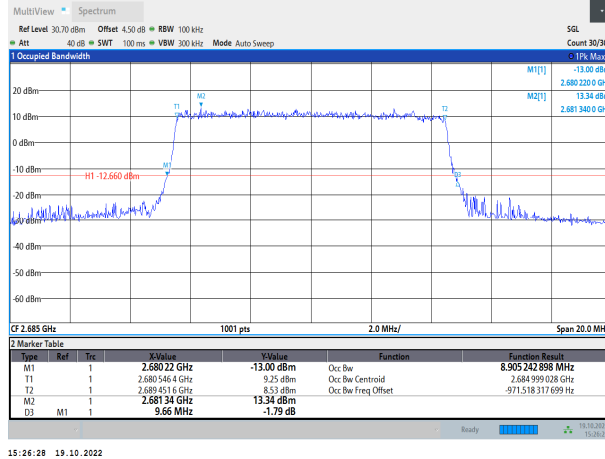


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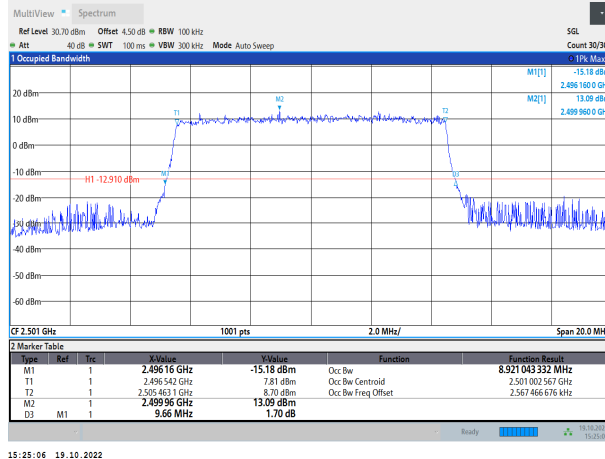
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Band41-10MHz-16QAM-41540-50RB#0



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

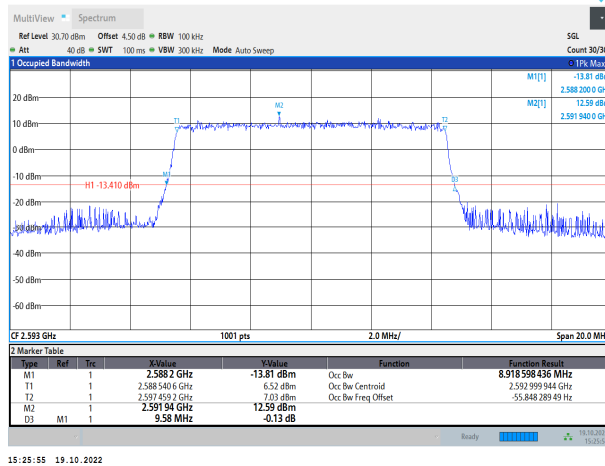


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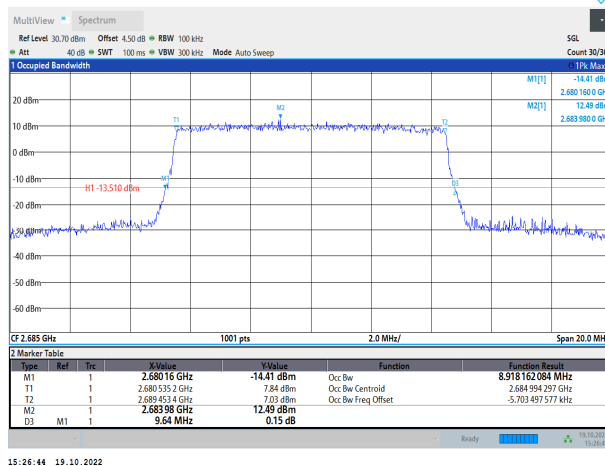
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Band41-10MHz-64QAM-40620-50RB#0



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

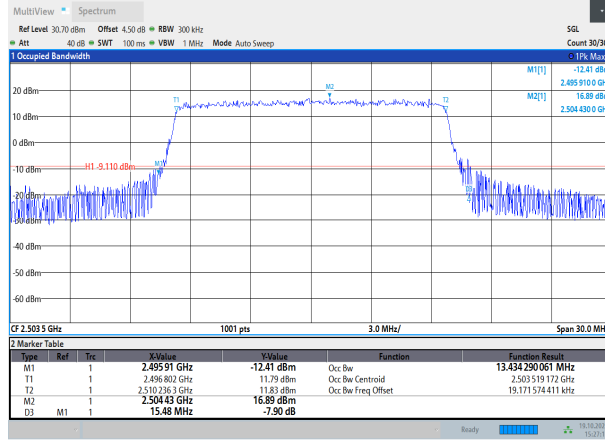


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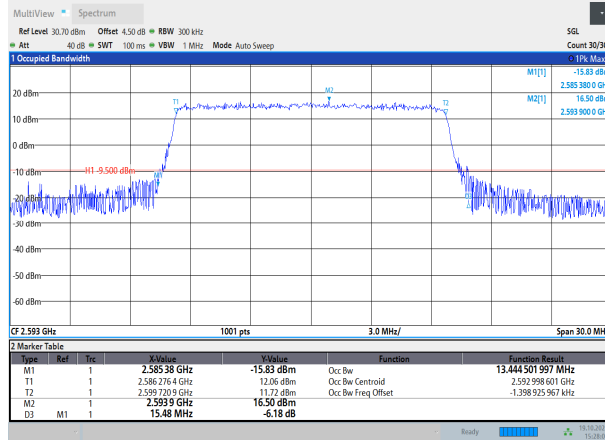
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Band41-15MHz-QPSK-39725-75RB#0



15:27:15 19.10.2022

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



15:28:04 19.10.2022

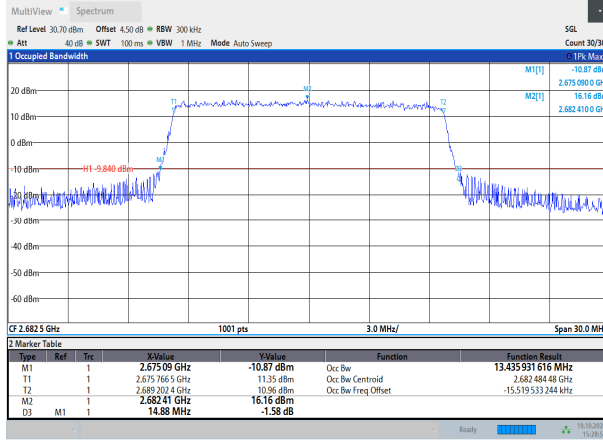


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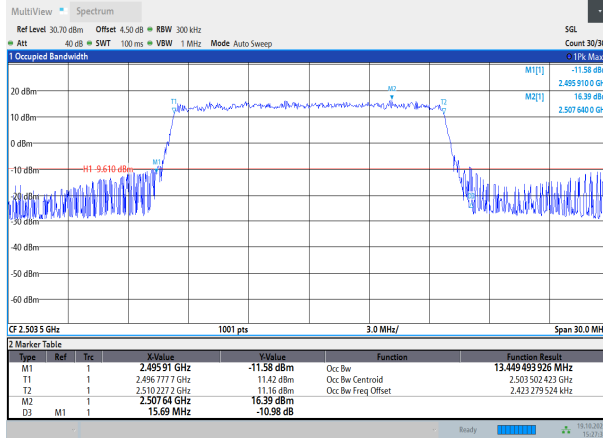
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Band41-15MHz-QPSK-41515-75RB#0



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



15:27:31 19.10.2022

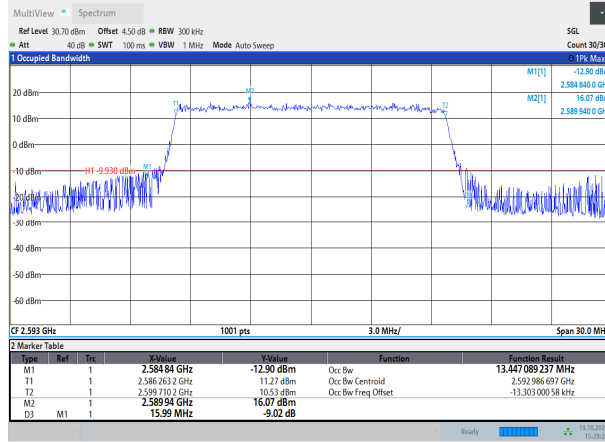


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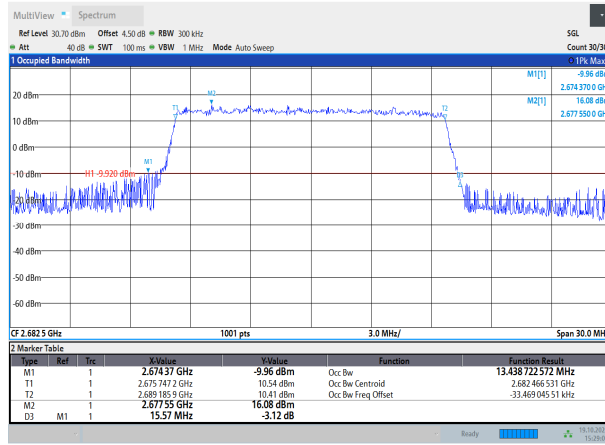
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Band41-15MHz-16QAM-40620-75RB#0



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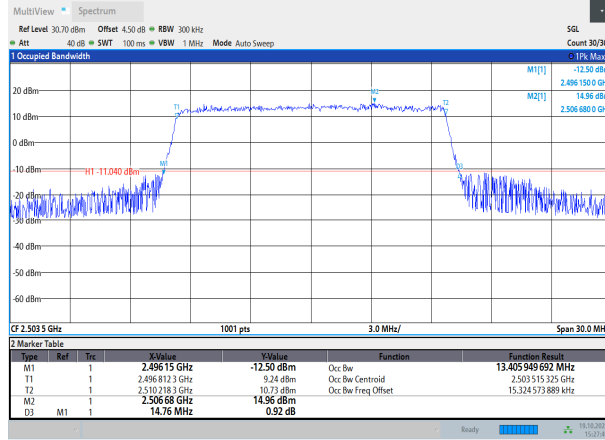


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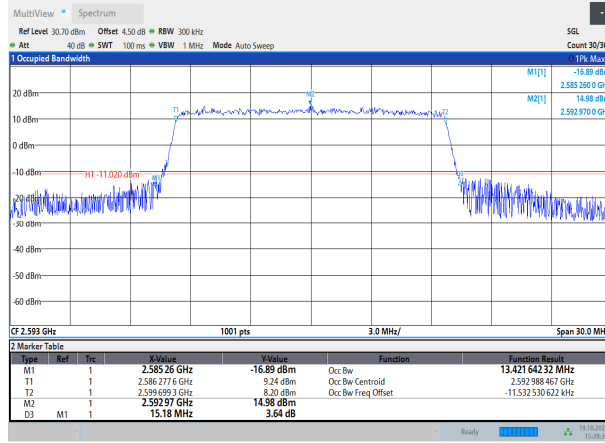
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Band41-15MHz-64QAM-40620-75RB#0

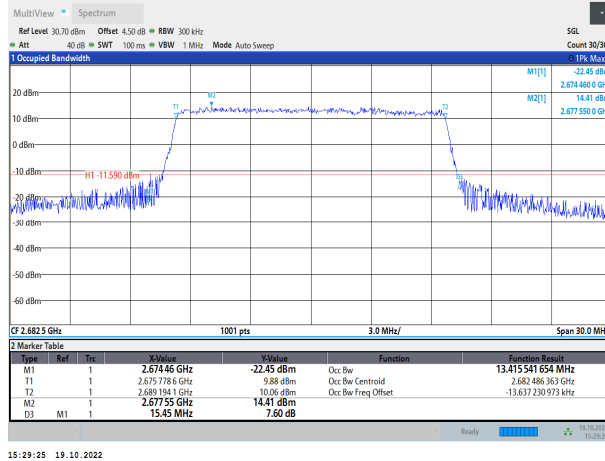


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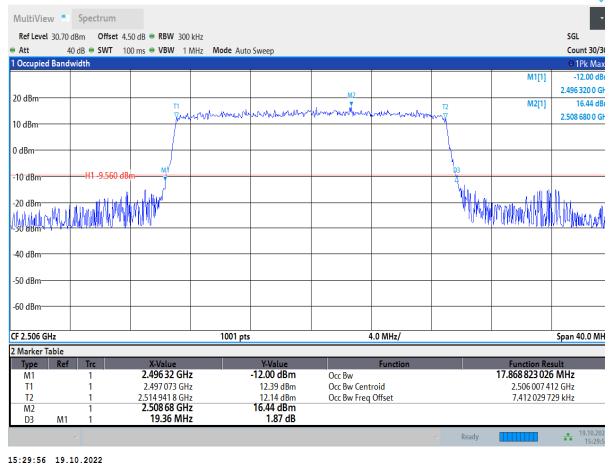
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Band41-15MHz-64QAM-41515-75RB#0



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

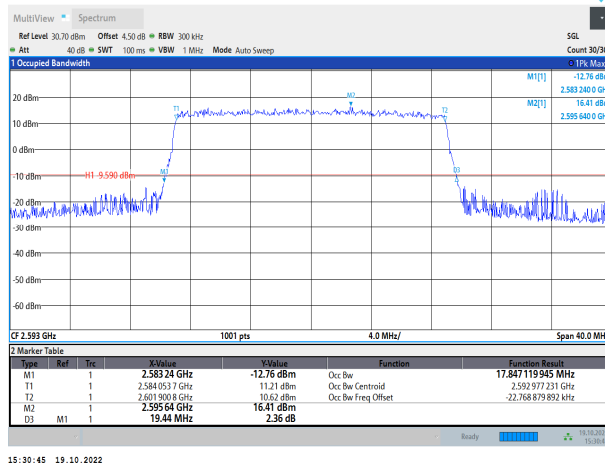


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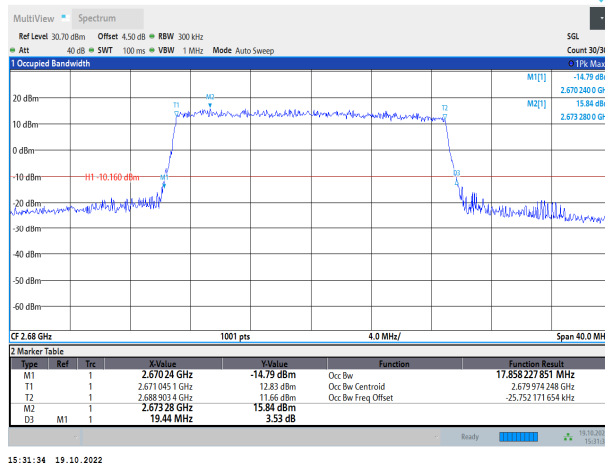
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Band41-20MHz-QPSK-40620-100RB#0



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

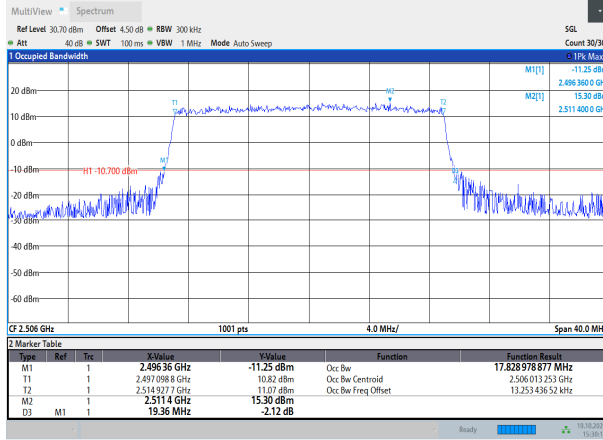


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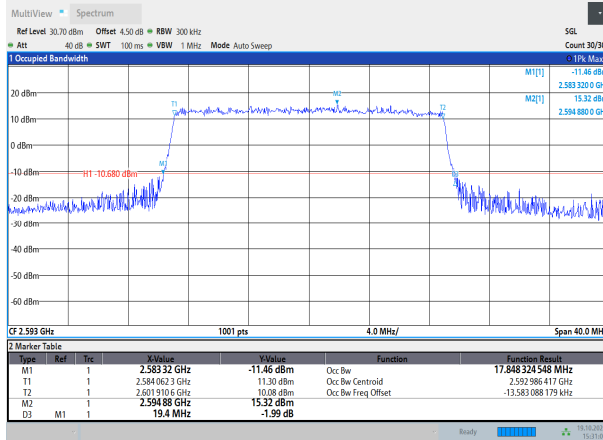
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Band41-20MHz-16QAM-39750-100RB#0



15:30:13 19.10.2022

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



15:31:01 19.10.2022



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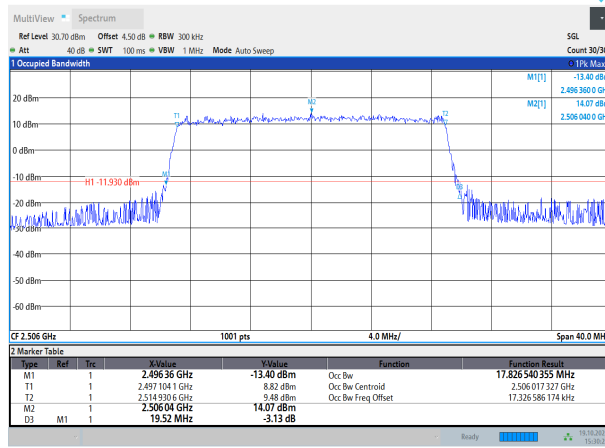
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Band41-20MHz-16QAM-41490-100RB#0



15:31:50 19.10.2022

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



15:30:29 19.10.2022

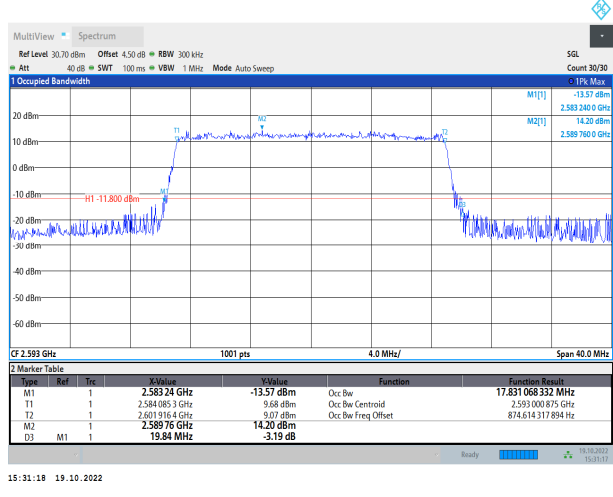


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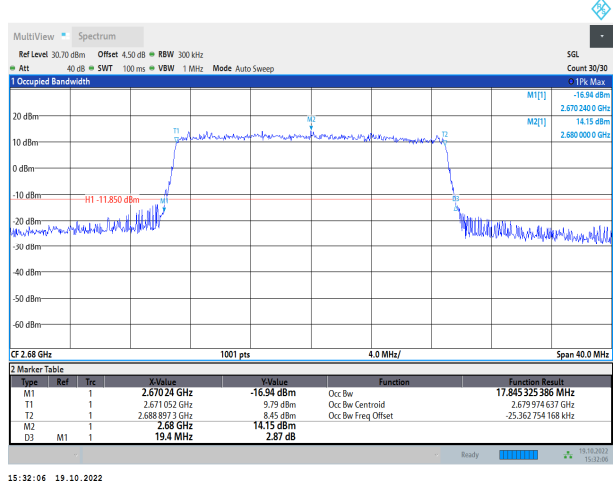
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Band41-20MHz-64QAM-40620-100RB#0



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



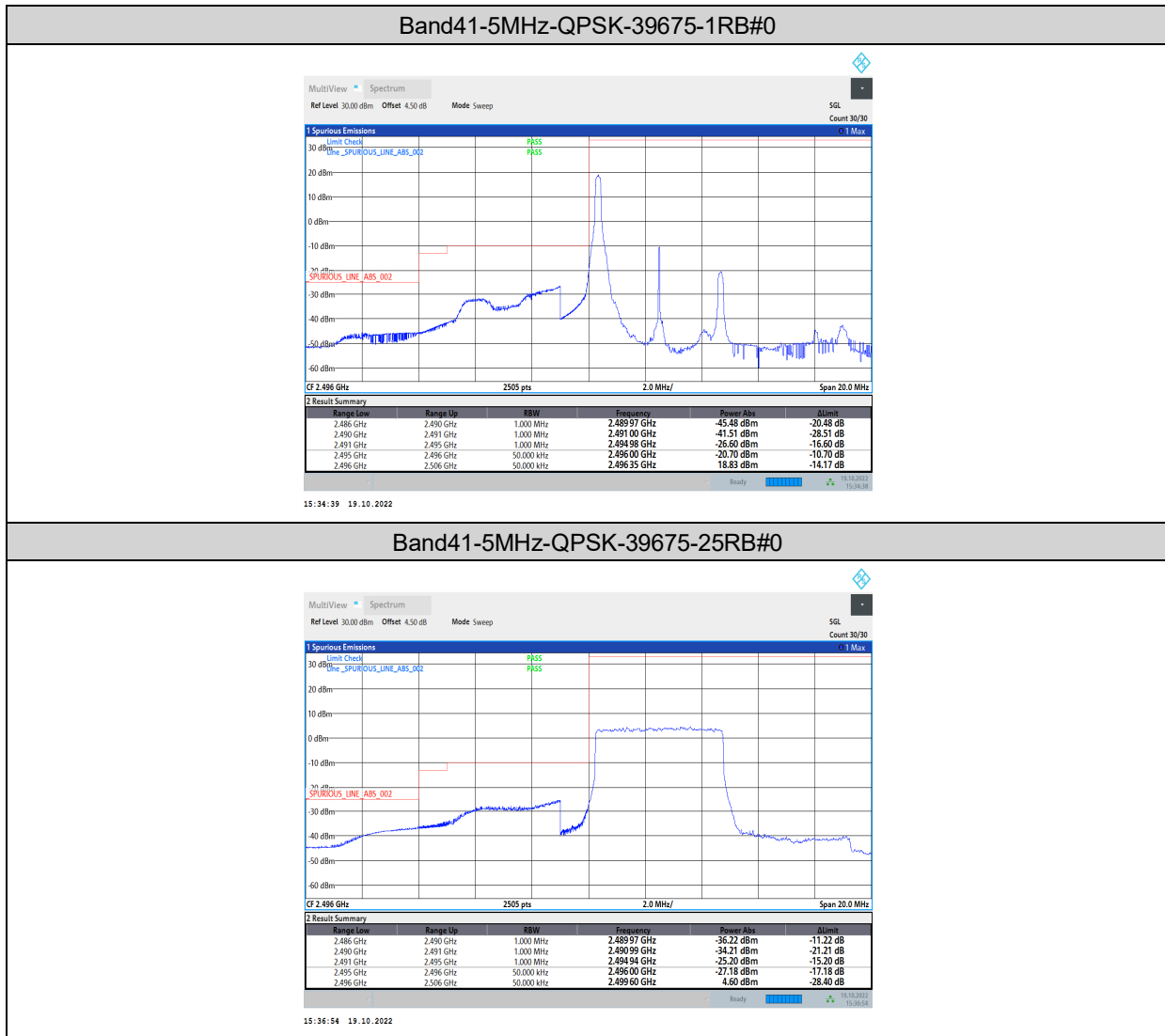
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Band Edge

Test Graphs

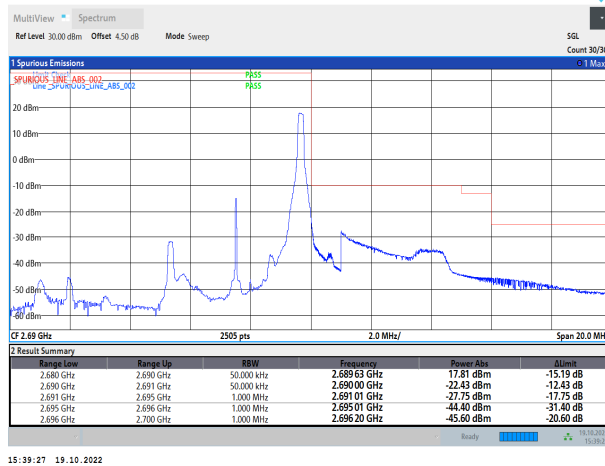


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Band41-5MHz-QPSK-41565-1RB#24



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

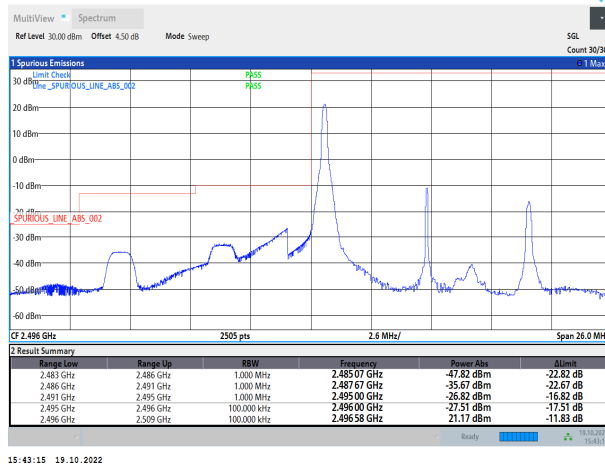


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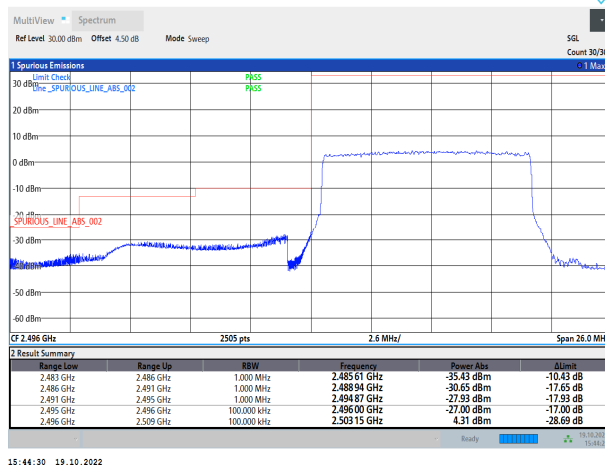
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Band41-10MHz-QPSK-39700-1RB#0



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

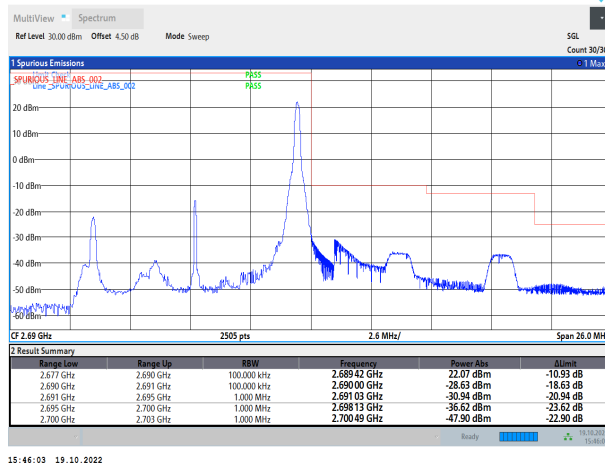


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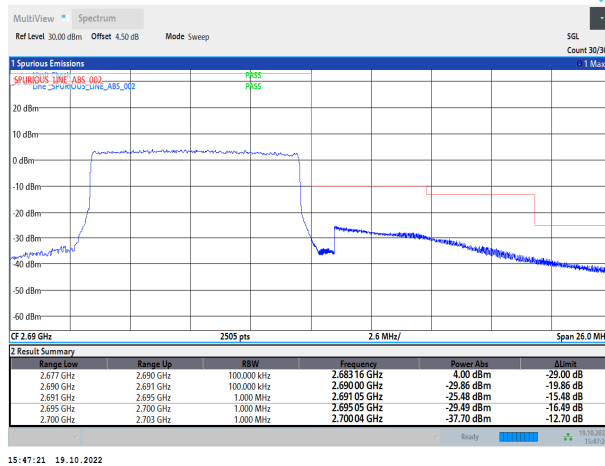
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Band41-10MHz-QPSK-41540-1RB#49



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

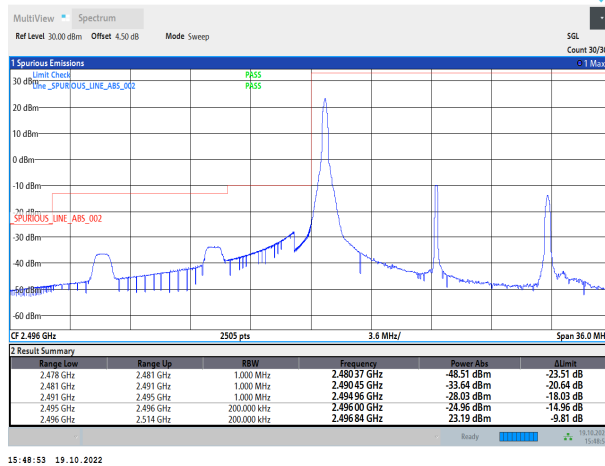


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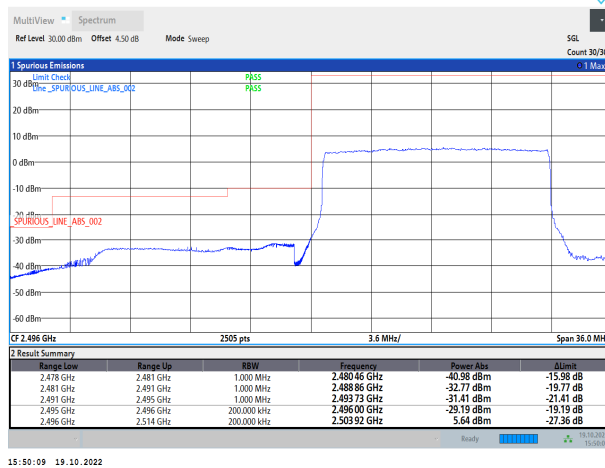
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Band41-15MHz-QPSK-39725-1RB#0



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

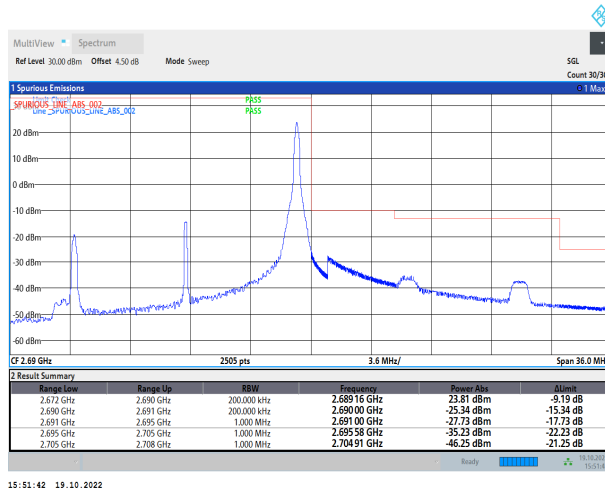


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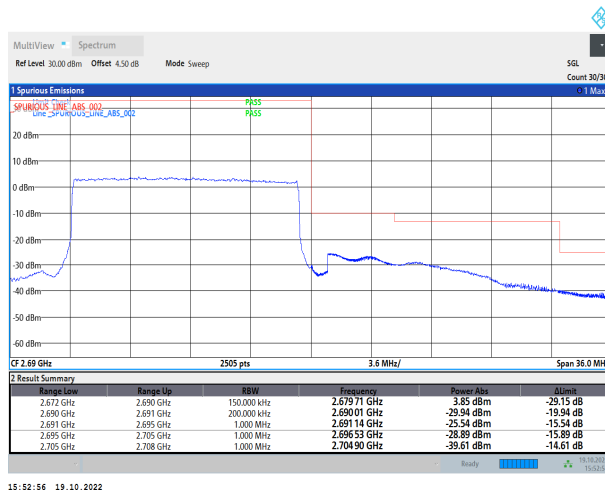
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Band41-15MHz-QPSK-41515-1RB#74



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

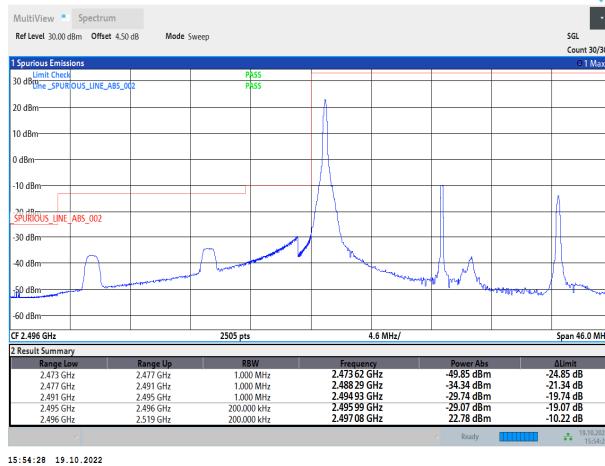


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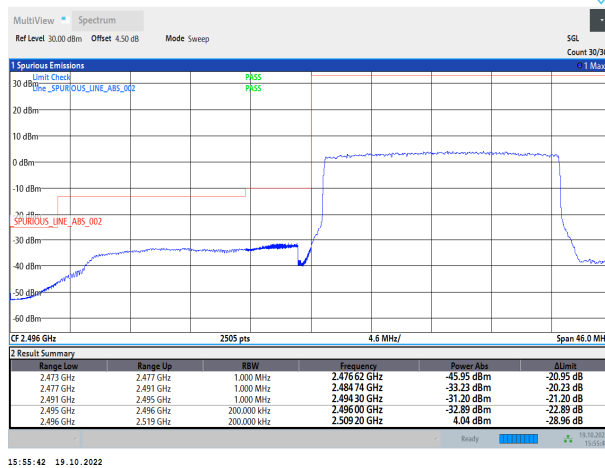
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Band41-20MHz-QPSK-39750-1RB#0



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

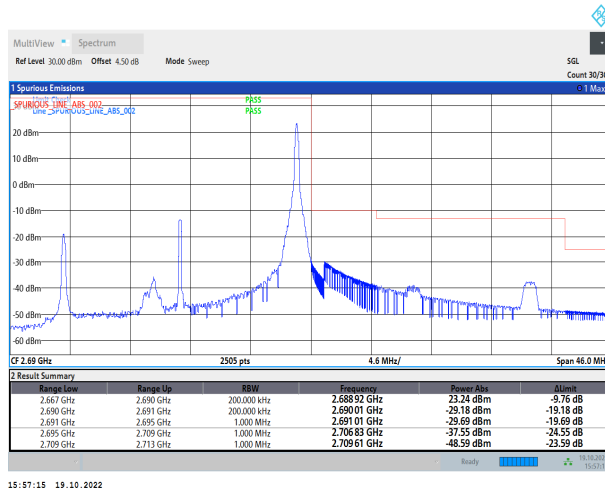


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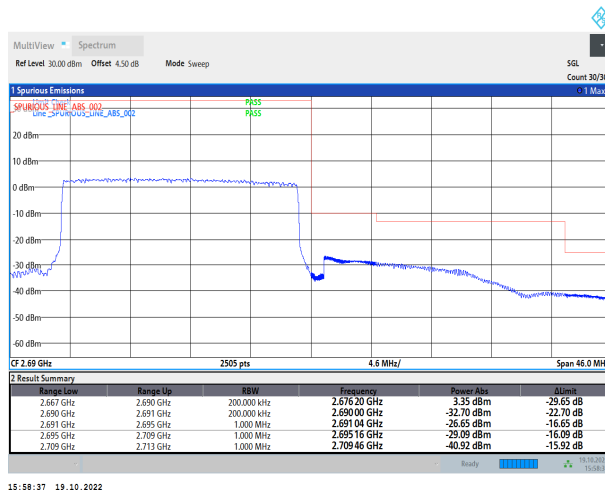
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Band41-20MHz-QPSK-41490-1RB#99



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



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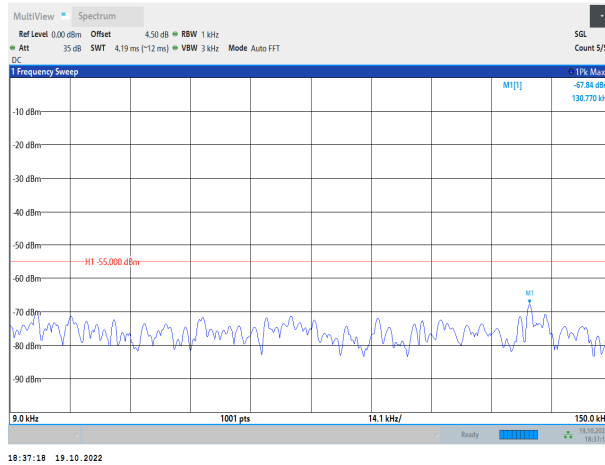
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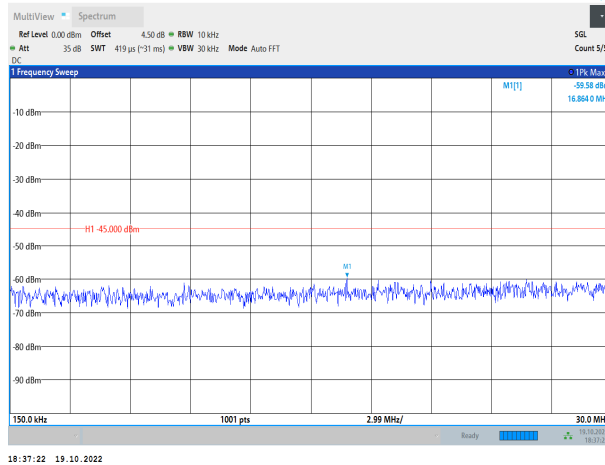
Conducted Spurious Emission

Test Graphs

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



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

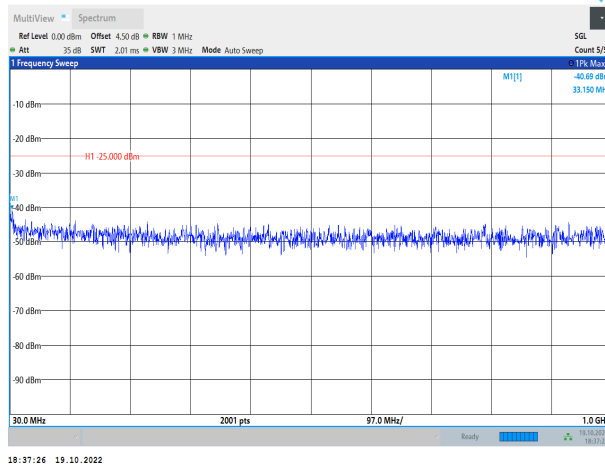


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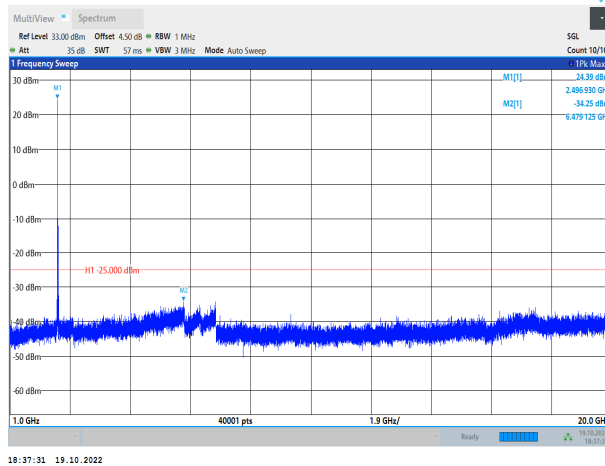
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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

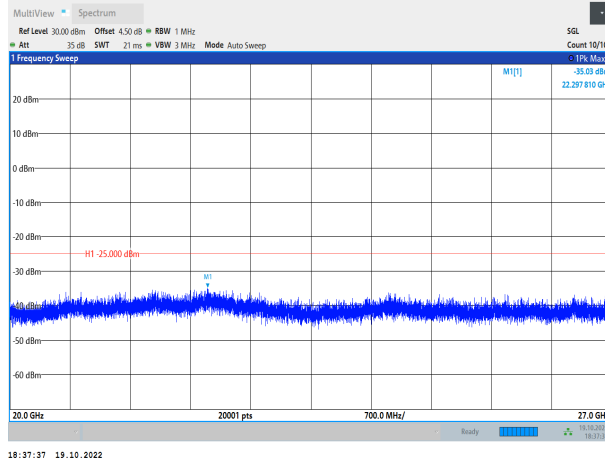


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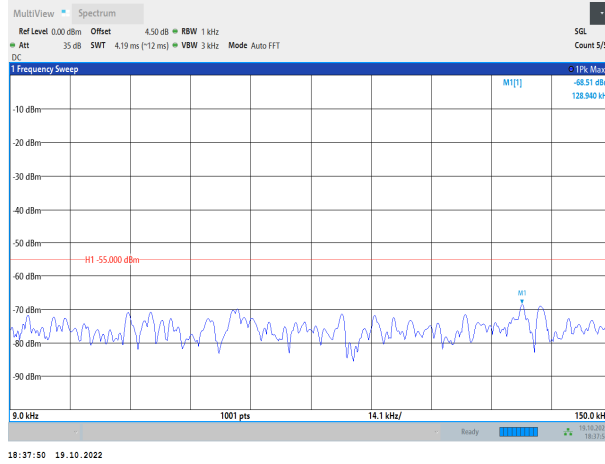
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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

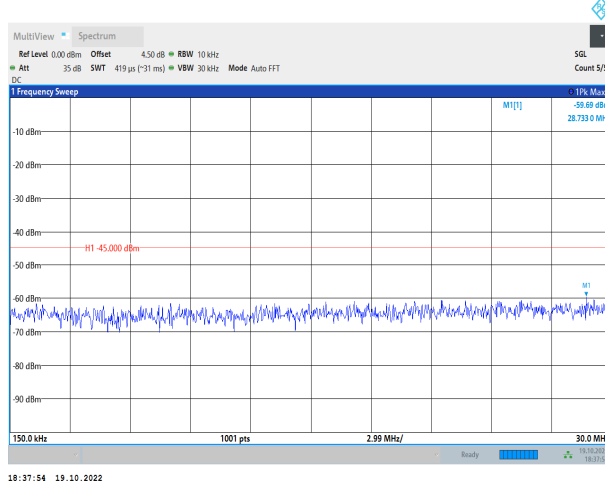


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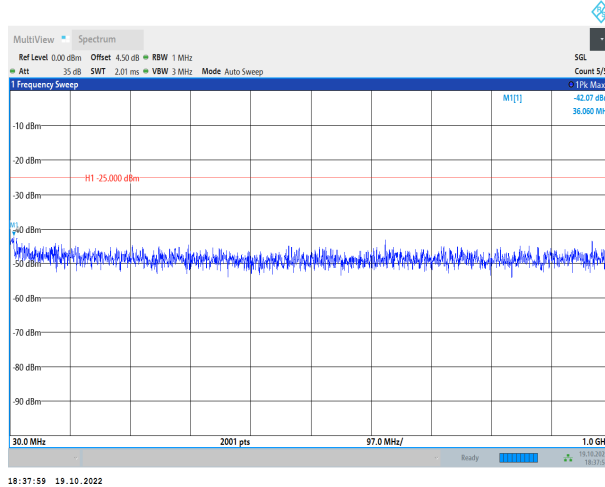
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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

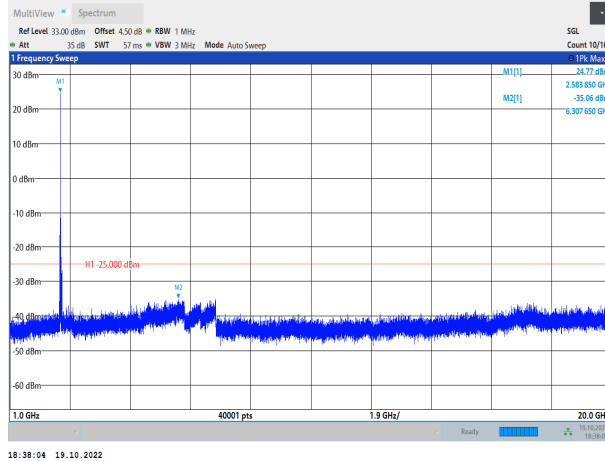


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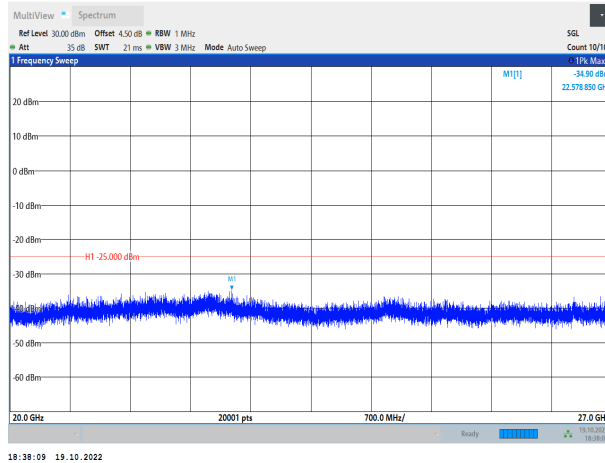
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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

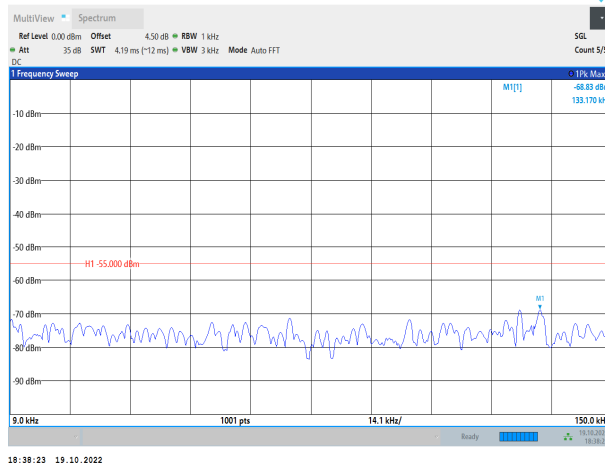


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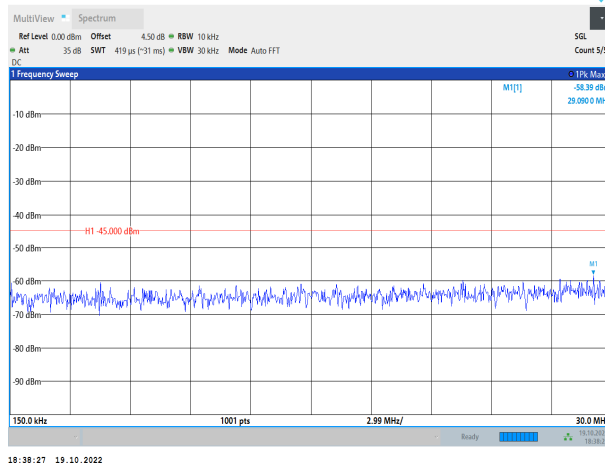
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



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

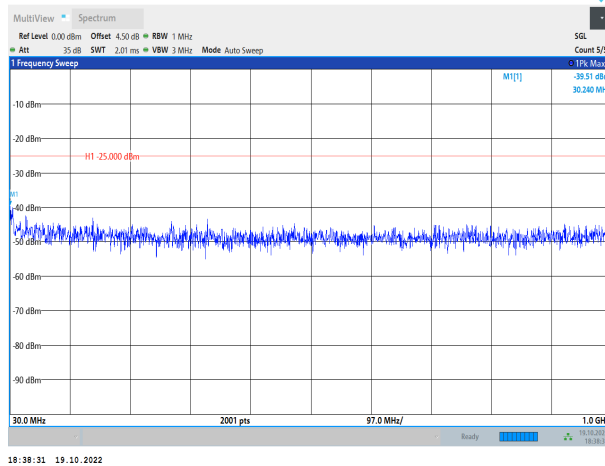


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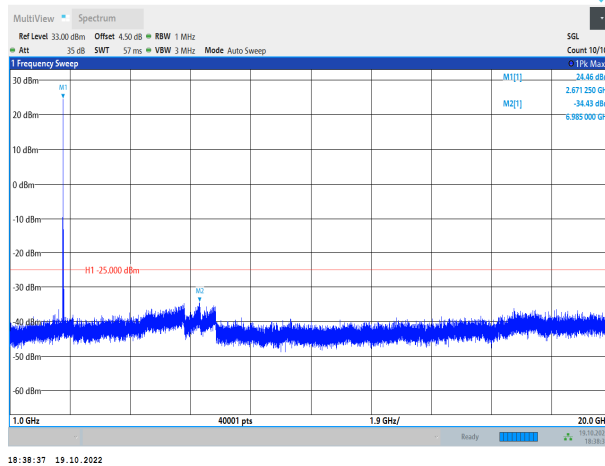
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



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

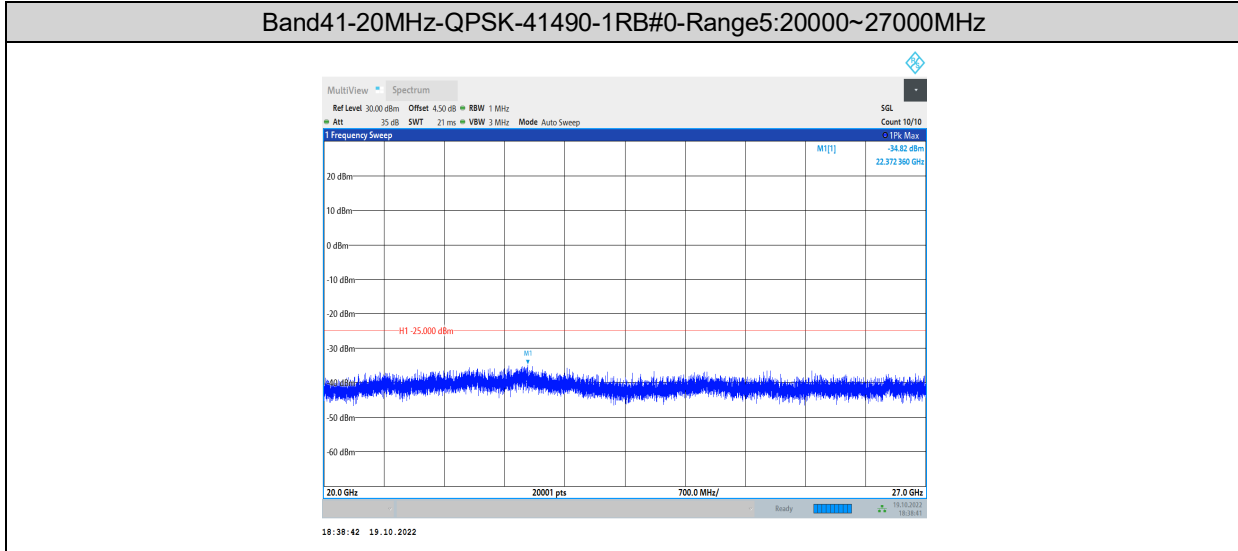


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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band41_ TM1

Test Channel = Low 2496-2690

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	54.93	-45.63	32.86	-53.10	-25.00	28.10	245	195	Horizontal
2	7491.2700	46.02	-43.16	36.44	-55.96	-25.00	30.96	186	31	Horizontal
3	9988.3600	37.30	-39.25	38.47	-58.74	-25.00	33.74	136	18	Horizontal
4	12485.4500	31.53	-37.04	39.16	-61.61	-25.00	36.61	256	316	Horizontal
5	14982.5400	30.20	-34.64	39.26	-60.44	-25.00	35.44	291	212	Horizontal
6	17479.6300	34.23	-35.10	39.13	-57.00	-25.00	32.00	175	316	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	63.06	-45.63	32.86	-44.97	-25.00	19.97	152	299	Vertical
2	7491.2700	44.04	-43.16	36.44	-57.94	-25.00	32.94	148	8	Vertical
3	9988.3600	37.54	-39.25	38.47	-58.50	-25.00	33.50	196	31	Vertical
4	12485.4500	31.43	-37.04	39.16	-61.71	-25.00	36.71	251	3	Vertical
5	14982.5400	29.61	-34.64	39.26	-61.03	-25.00	36.03	143	330	Vertical
6	17479.6300	32.20	-35.10	39.13	-59.03	-25.00	34.03	163	3	Vertical



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Test Band = LTE Band41_ TM1

Test Channel = Mid 2496-2690

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3793.5	50.44	-45.89	30.31	-60.41	-25.00	35.41	158	182	Horizontal
2	5168.1800	54.03	-45.31	32.97	-53.57	-25.00	28.57	142	0	Horizontal
3	7752.2700	45.41	-42.69	36.69	-55.85	-25.00	30.85	166	47	Horizontal
4	10336.3600	35.92	-39.06	38.84	-59.56	-25.00	34.56	236	0	Horizontal
5	12920.4500	32.87	-37.16	39.75	-59.80	-25.00	34.80	259	0	Horizontal
6	15504.5400	30.64	-35.35	38.57	-61.40	-25.00	36.40	192	168	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3861.75	50.86	-46.14	30.48	-60.07	-25.00	35.07	199	331	Vertical
2	5168.1800	55.42	-45.31	32.97	-52.18	-25.00	27.18	128	64	Vertical
3	7752.2700	45.64	-42.69	36.69	-55.62	-25.00	30.62	215	78	Vertical
4	10336.3600	37.56	-39.06	38.84	-57.92	-25.00	32.92	135	256	Vertical
5	12920.4500	33.39	-37.16	39.75	-59.28	-25.00	34.28	169	357	Vertical
6	15504.5400	29.81	-35.35	38.57	-62.23	-25.00	37.23	160	0	Vertical



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Test Band = LTE Band41_ TM1
Test Channel = High 2496-2690

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3672	50.90	-45.68	29.87	-60.17	-25.00	35.17	162	168	Horizontal
2	5342.1800	54.78	-45.18	32.85	-52.80	-25.00	27.80	192	136	Horizontal
3	8013.2700	44.60	-42.21	37.01	-55.86	-25.00	30.86	142	0	Horizontal
4	10684.3600	34.33	-37.97	39.13	-59.77	-25.00	34.77	155	301	Horizontal
5	13355.4500	31.23	-36.56	40.10	-60.49	-25.00	35.49	183	213	Horizontal
6	16026.5400	31.73	-34.85	37.83	-60.56	-25.00	35.56	201	136	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3787.5	50.70	-45.87	30.29	-60.14	-25.00	35.14	186	1	Vertical
2	5342.1800	58.32	-45.18	32.85	-49.26	-25.00	24.26	125	199	Vertical
3	8013.2700	45.15	-42.21	37.01	-55.31	-25.00	30.31	132	170	Vertical
4	10684.3600	34.60	-37.97	39.13	-59.50	-25.00	34.50	199	49	Vertical
5	13355.4500	31.25	-36.56	40.10	-60.47	-25.00	35.47	147	35	Vertical
6	16026.5400	32.25	-34.85	37.83	-60.04	-25.00	35.04	105	0	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	1.20	0.000463	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	1.80	0.000694	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	2.10	0.000810	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	3.70	0.001427	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-3.60	-0.001388	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	3.30	0.001273	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	1.60	0.000617	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	3.20	0.001234	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	2.20	0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.60	-0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-1.20	-0.000463	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	2.40	0.000926	PASS

---End of Attachment---



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