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# Appendix B.2

## LTE Band 4



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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
Band4	1.4MHz	QPSK	19957	1RB#0	23.5	25.04	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.7	25.24	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.75	25.29	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.75	24.29	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.69	25.23	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.82	25.36	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.76	25.3	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.8	24.34	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.59	25.13	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.58	25.12	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.56	25.1	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.61	24.15	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.03	24.57	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.95	24.49	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.02	24.56	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.9	23.44	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.1	24.64	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.16	24.7	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.96	24.5	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.99	23.53	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.85	24.39	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.81	24.35	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.82	24.36	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.89	23.43	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.5	25.04	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.79	25.33	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.61	25.15	30	PASS



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Band4	3MHz	QPSK	19965	15RB#0	22.83	24.37	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.73	25.27	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.85	25.39	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.66	25.2	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.76	24.3	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.43	24.97	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.57	25.11	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.46	25	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.54	24.08	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.77	24.31	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.01	24.55	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.85	24.39	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.9	23.44	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.95	24.49	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.02	24.56	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.93	24.47	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.9	23.44	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.75	24.29	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.94	24.48	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.79	24.33	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.74	23.28	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.8	25.34	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.96	25.5	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.98	25.52	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.03	24.57	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.91	25.45	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.84	25.38	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.87	25.41	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.85	24.39	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.69	25.23	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.63	25.17	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.69	25.23	30	PASS



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Band4	5MHz	QPSK	20375	25RB#0	22.65	24.19	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.17	24.71	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.19	24.73	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.35	24.89	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.09	23.63	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.15	24.69	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.11	24.65	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.19	24.73	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.96	23.5	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.97	24.51	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.9	24.44	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.04	24.58	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.84	23.38	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.75	25.29	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.99	25.53	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.02	25.56	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.91	24.45	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.69	25.23	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.96	25.5	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.93	25.47	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.91	24.45	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.8	25.34	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.83	25.37	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.87	25.41	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.87	24.41	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.06	24.6	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.19	24.73	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.16	24.7	30	PASS
Band4	10MHz	16QAM	20000	27RB#0	23.53	25.07	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.1	24.64	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.26	24.8	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.11	24.65	30	PASS



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Band4	10MHz	16QAM	20175	27RB#0	23.53	25.07	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.14	24.68	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.23	24.77	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.26	24.8	30	PASS
Band4	10MHz	16QAM	20350	27RB#0	23.47	25.01	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.86	25.4	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	24.13	25.67	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.36	25.9	30	PASS
Band4	15MHz	QPSK	20025	27RB#0	23.26	24.8	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.79	25.33	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	24	25.54	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.87	25.41	30	PASS
Band4	15MHz	QPSK	20175	27RB#0	22.97	24.51	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.55	25.09	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.88	25.42	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.93	25.47	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.9	24.44	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.18	24.72	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.28	24.82	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.5	25.04	30	PASS
Band4	15MHz	16QAM	20025	27RB#0	21.36	22.9	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.97	24.51	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.04	24.58	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.05	24.59	30	PASS
Band4	15MHz	16QAM	20175	27RB#0	21.52	23.06	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.85	24.39	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.06	24.6	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.04	24.58	30	PASS
Band4	15MHz	16QAM	20325	27RB#0	21.56	23.1	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.85	25.39	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.22	25.76	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	24.35	25.89	30	PASS



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Band4	20MHz	QPSK	20050	100RB#0	23.35	24.89	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.77	25.31	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.01	25.55	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.98	25.52	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.03	24.57	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.43	24.97	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.89	25.43	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	24.01	25.55	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.99	24.53	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.05	24.59	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.4	24.94	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.54	25.08	30	PASS
Band4	20MHz	16QAM	20050	27RB#0	21.69	23.23	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.99	24.53	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.16	24.7	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.97	24.51	30	PASS
Band4	20MHz	16QAM	20175	27RB#0	21.45	22.99	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.94	24.48	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.97	24.51	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.05	24.59	30	PASS
Band4	20MHz	16QAM	20300	27RB#0	21.36	22.9	30	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.08	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.40	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.50	13	PASS



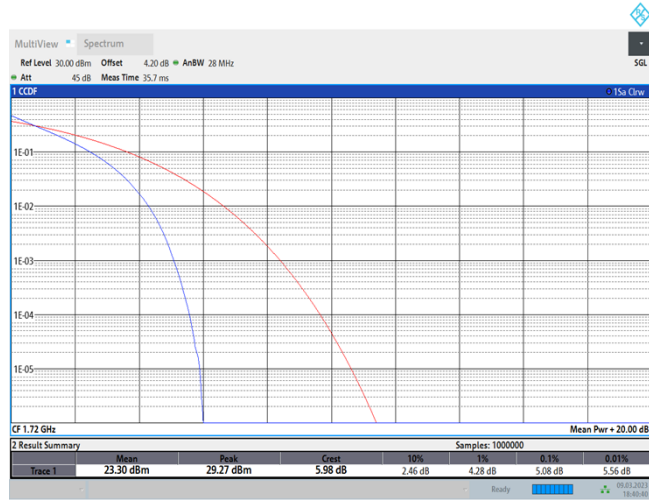
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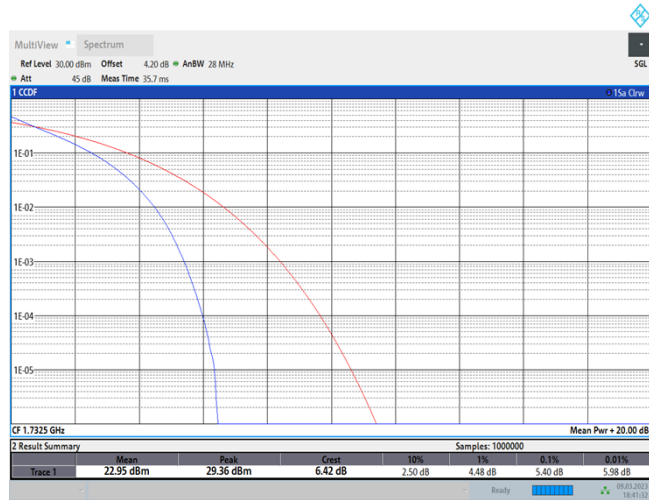
Test Graphs

Band4-20MHz-QPSK-20050-100RB#0



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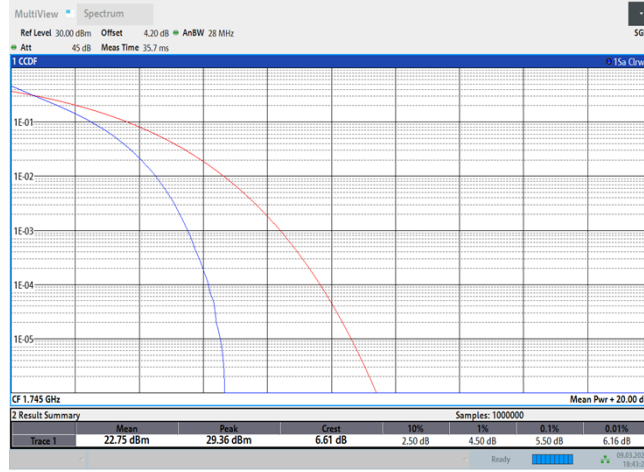
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Band4-20MHz-QPSK-20300-100RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	5MHz	QPSK	20175	25RB#0	PASS	PASS
Band4	5MHz	16QAM	20175	25RB#0	PASS	PASS

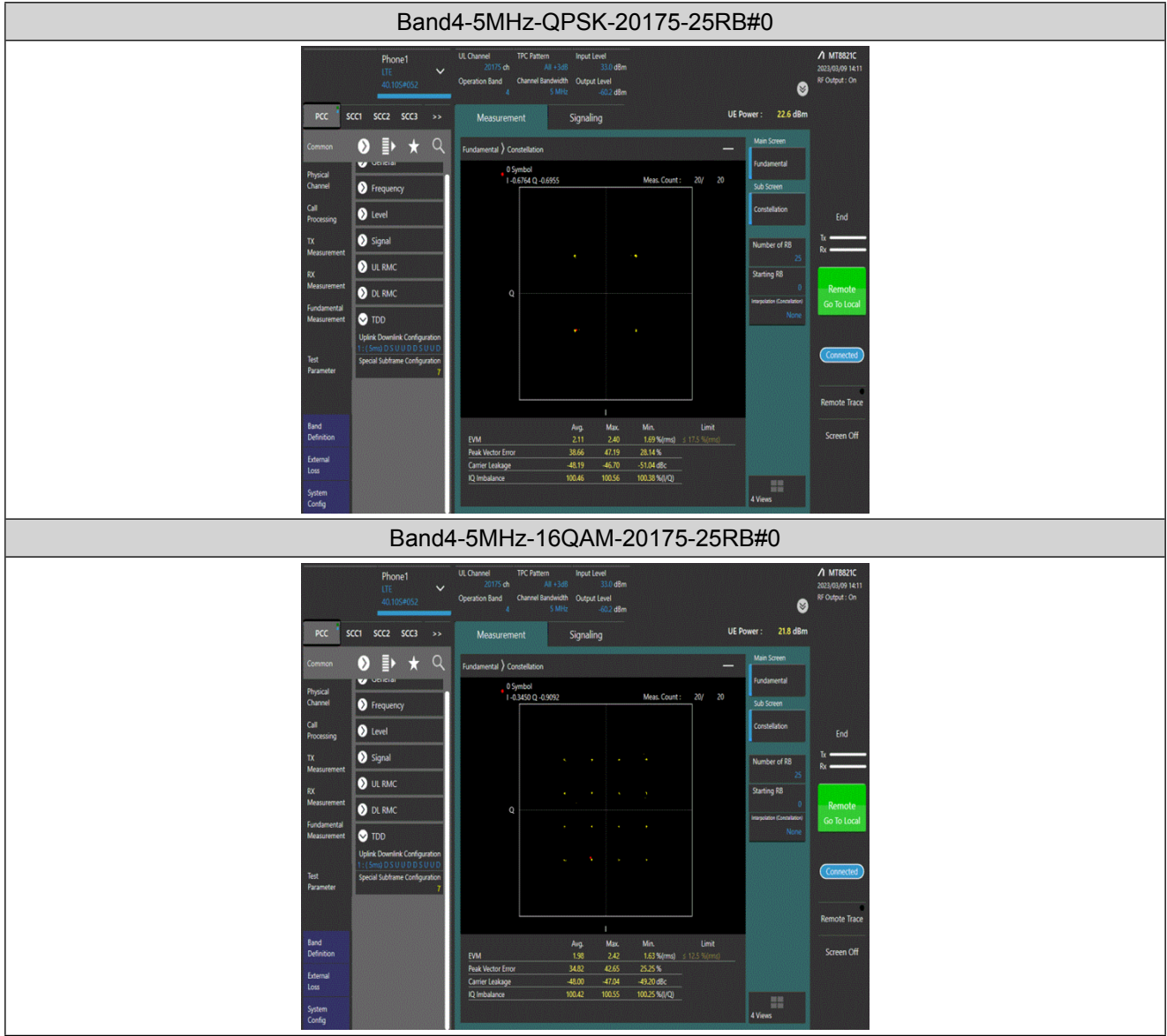


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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.093	1.29	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.087	1.29	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.096	1.31	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	3.01	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	3.01	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	3.01	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.689	3.01	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.69	3.02	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.69	3.02	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.47	4.92	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.47	4.93	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.469	4.94	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.468	4.98	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.465	4.97	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.468	4.99	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.928	9.88	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.933	9.92	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.939	9.96	PASS
Band4	10MHz	16QAM	20000	27RB#0	4.879	5.86	PASS
Band4	10MHz	16QAM	20175	27RB#0	4.882	5.90	PASS
Band4	10MHz	16QAM	20350	27RB#0	4.881	5.82	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.502	15.36	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.514	15.30	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.517	15.30	PASS
Band4	15MHz	16QAM	20025	27RB#0	5.202	6.78	PASS
Band4	15MHz	16QAM	20175	27RB#0	5.206	6.9	PASS
Band4	15MHz	16QAM	20325	27RB#0	5.231	6.81	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.947	20.08	PASS



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Band4	20MHz	QPSK	20175	100RB#0	17.95	20.12	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.957	20.24	PASS
Band4	20MHz	16QAM	20050	27RB#0	5.244	7.24	PASS
Band4	20MHz	16QAM	20175	27RB#0	5.235	6.96	PASS
Band4	20MHz	16QAM	20300	27RB#0	5.245	7.00	PASS



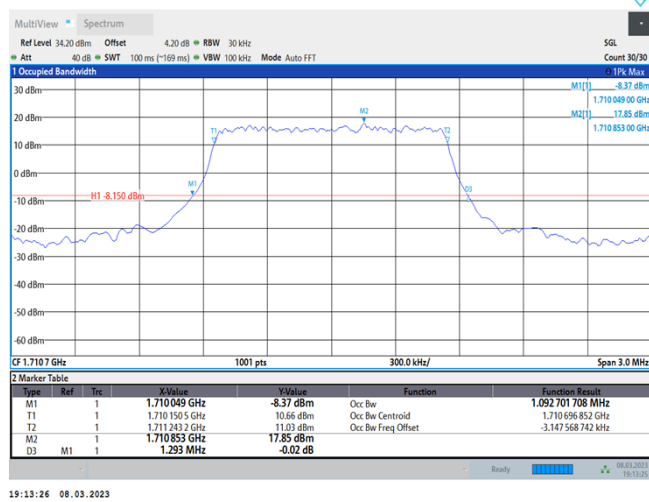
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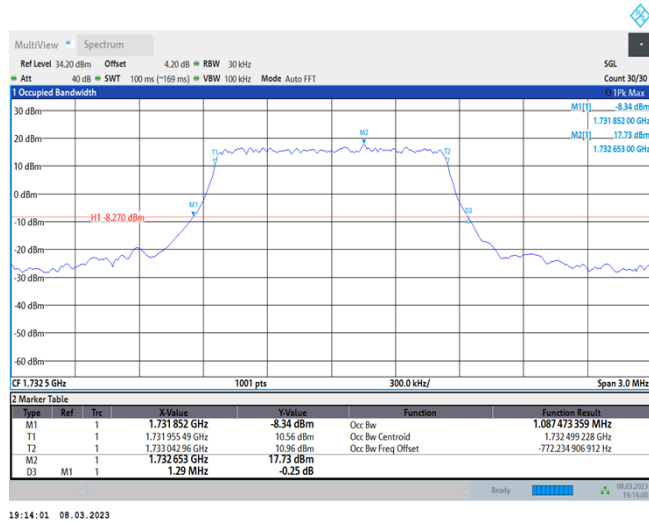
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Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0

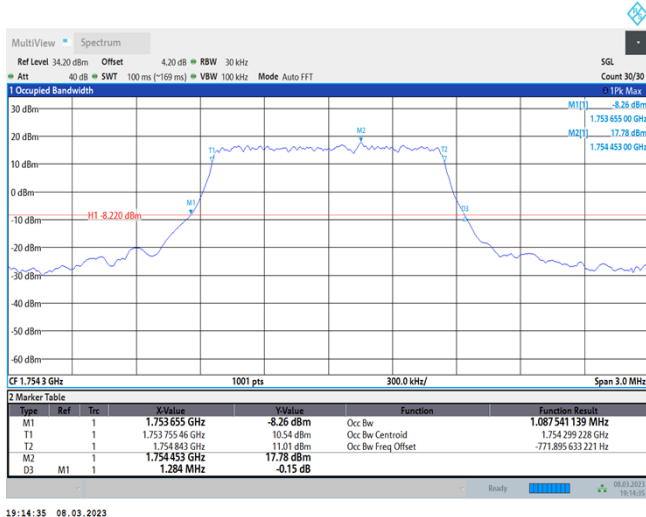


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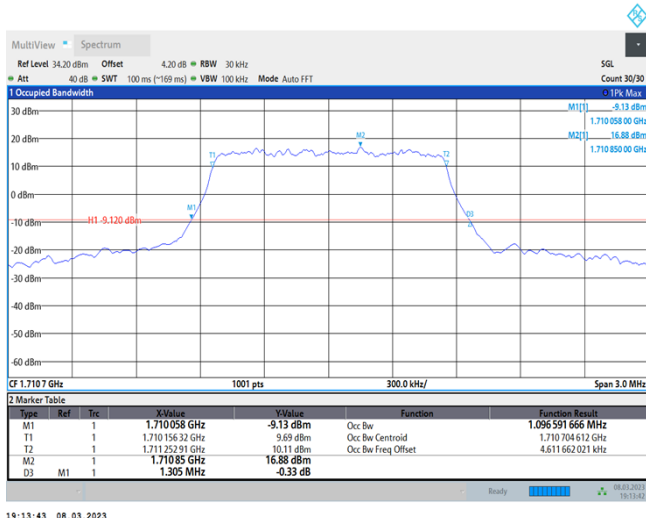
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Band4-1.4MHz-16QAM-19957-6RB#0



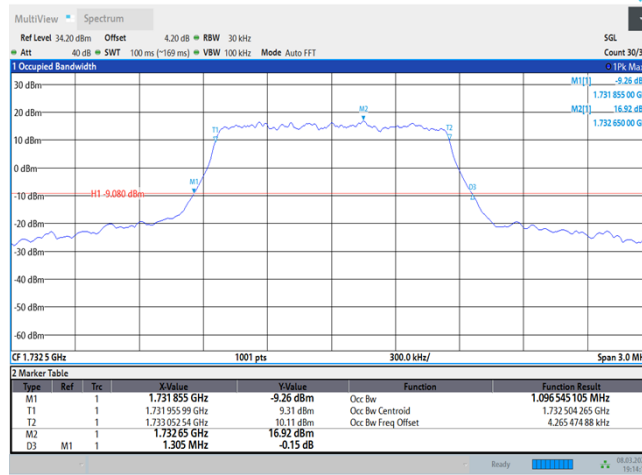
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Band4-1.4MHz-16QAM-20175-6RB#0



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Band4-1.4MHz-16QAM-20393-6RB#0



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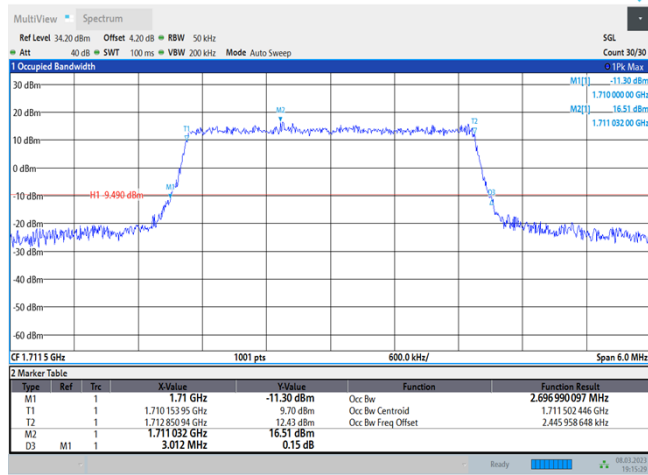
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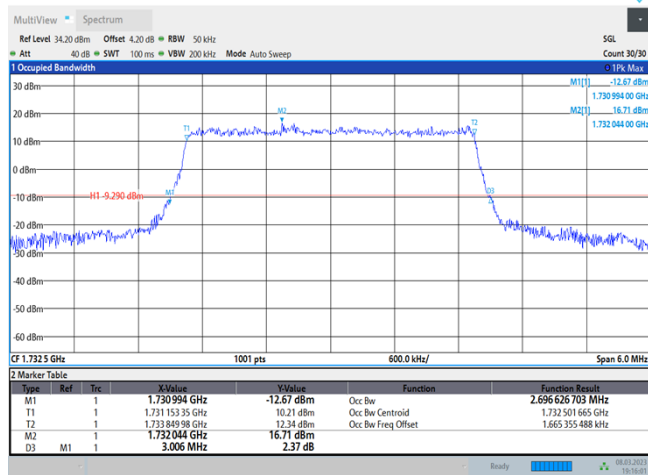


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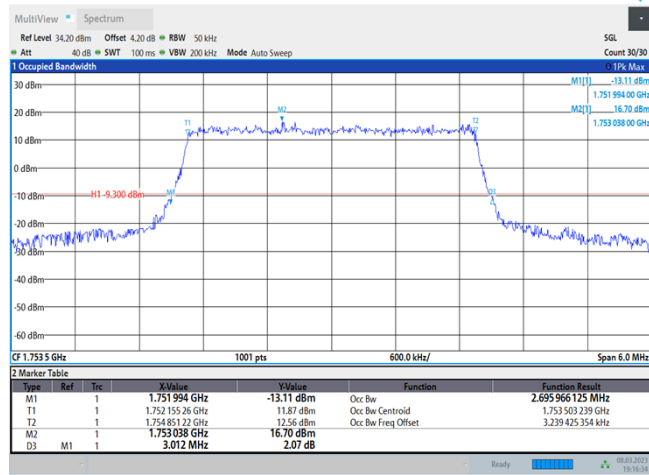


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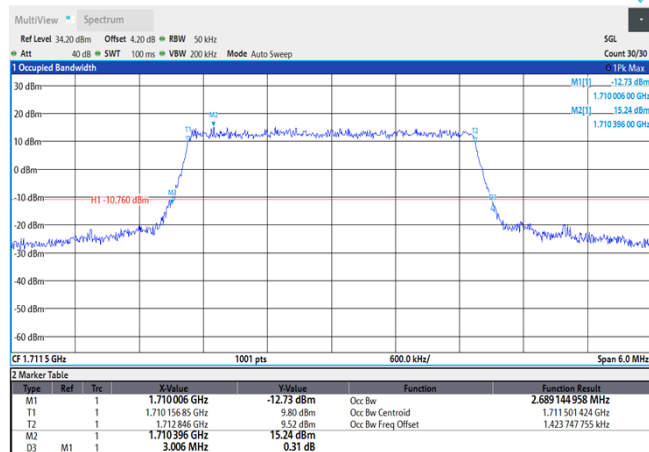
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Band4-3MHz-16QAM-19965-15RB#0



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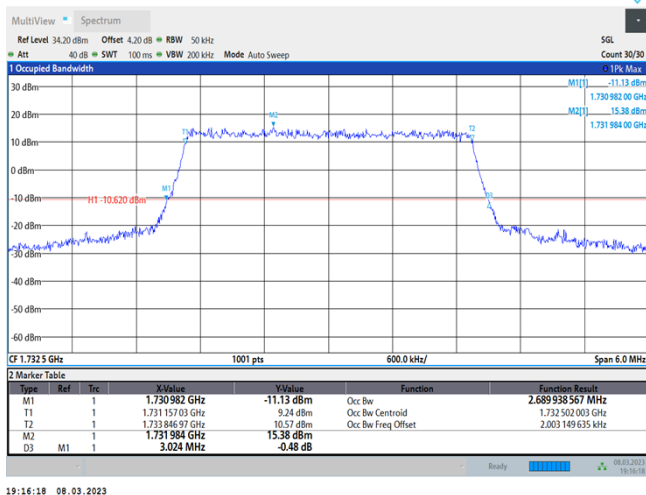
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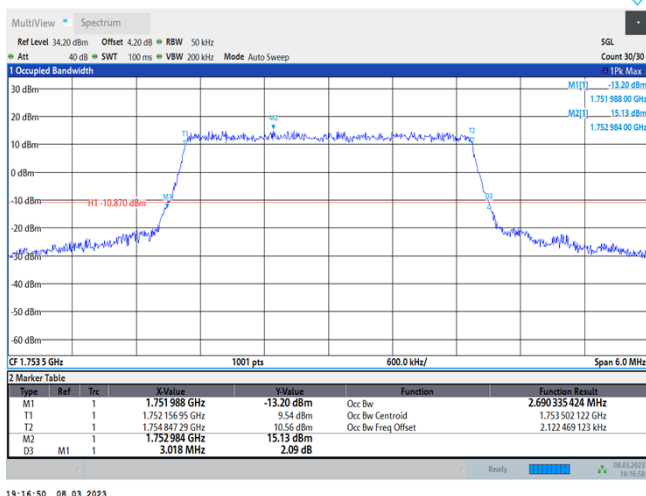
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Band4-3MHz-16QAM-20175-15RB#0



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Band4-3MHz-16QAM-20385-15RB#0



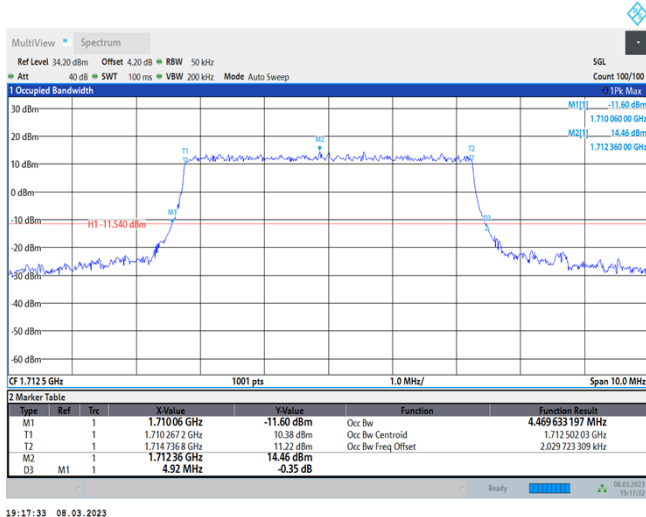
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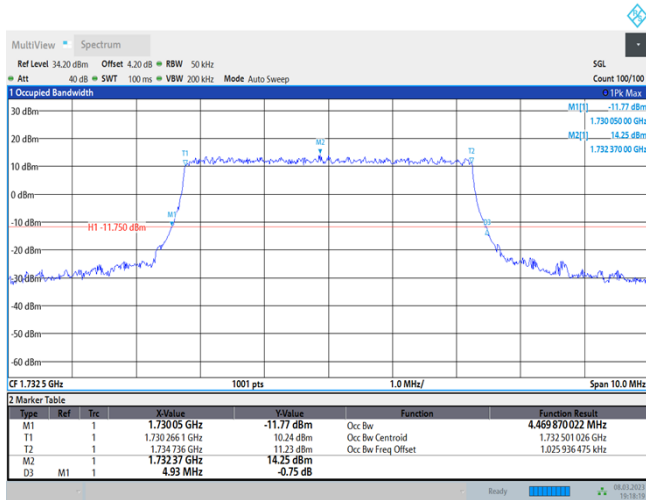
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Band4-5MHz-QPSK-19975-25RB#0



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Band4-5MHz-QPSK-20175-25RB#0



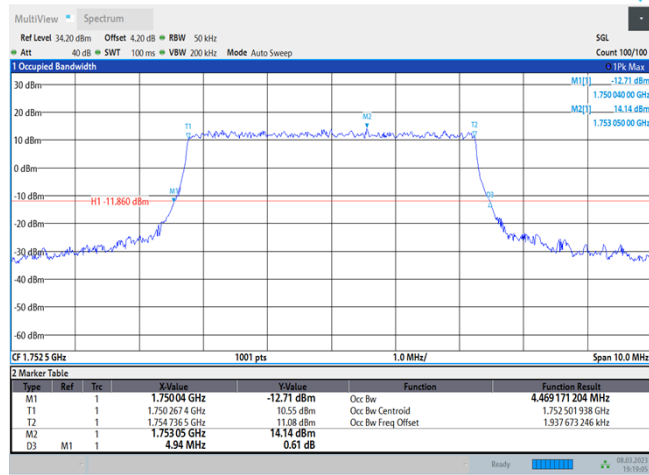
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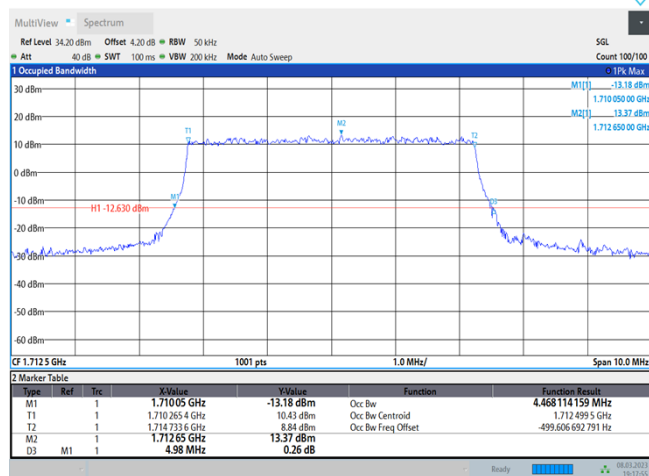
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Band4-5MHz-QPSK-20375-25RB#0



19:19:06 08.03.2023

Band4-5MHz-16QAM-19975-25RB#0



19:17:56 08.03.2023



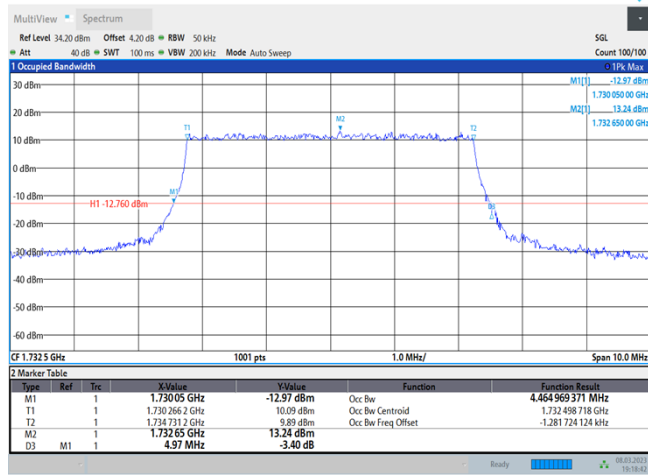
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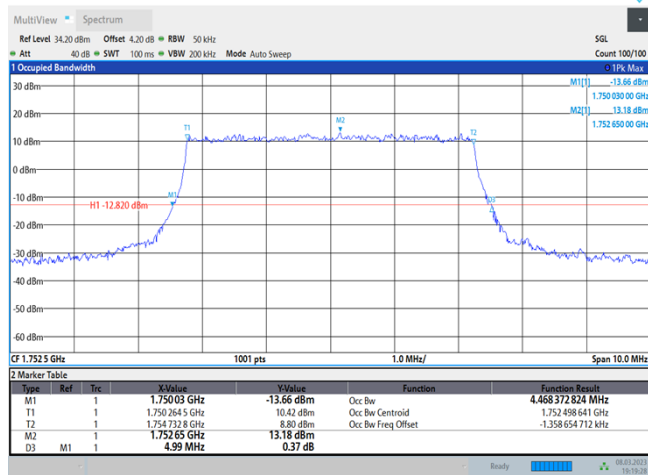
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Band4-5MHz-16QAM-20175-25RB#0



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Band4-5MHz-16QAM-20375-25RB#0



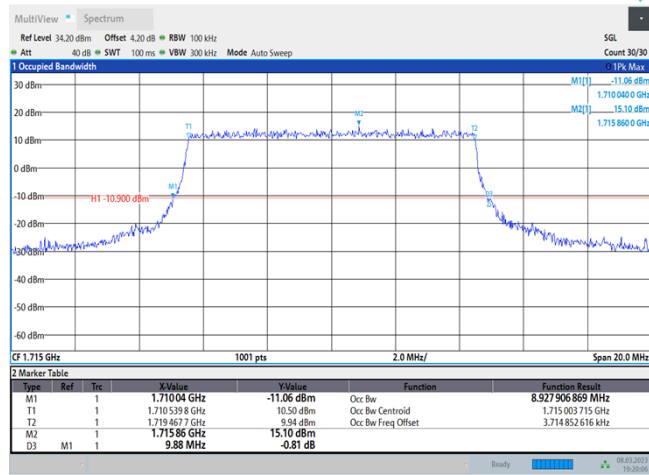
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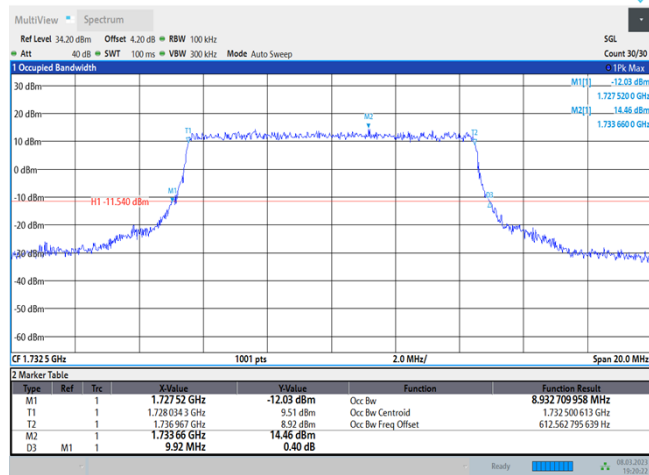
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Band4-10MHz-QPSK-20000-50RB#0



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Band4-10MHz-QPSK-20175-50RB#0



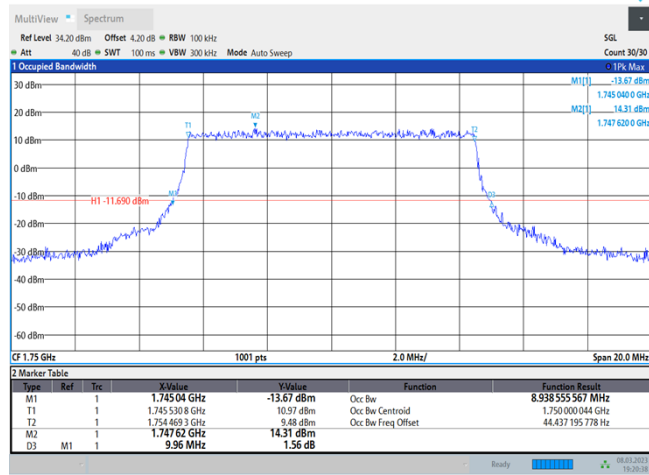
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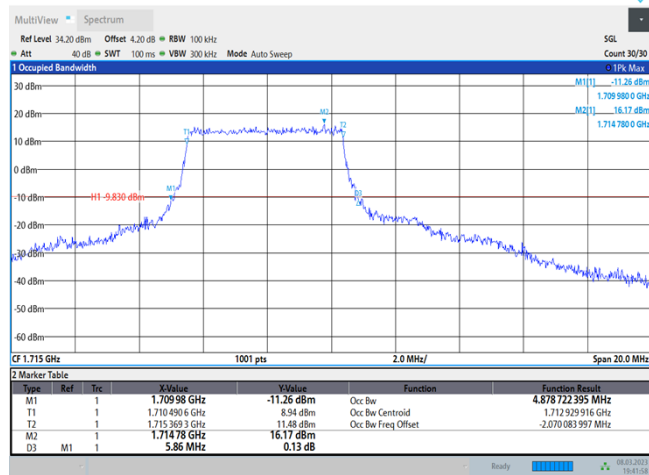
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Band4-10MHz-QPSK-20350-50RB#0



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Band4-10MHz-16QAM-20000-27RB#0



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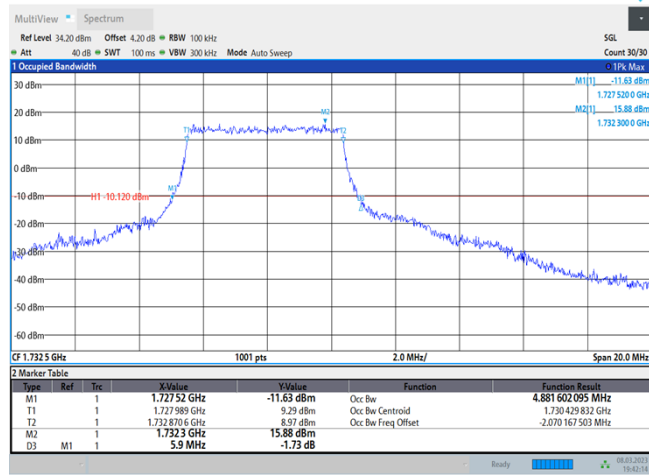
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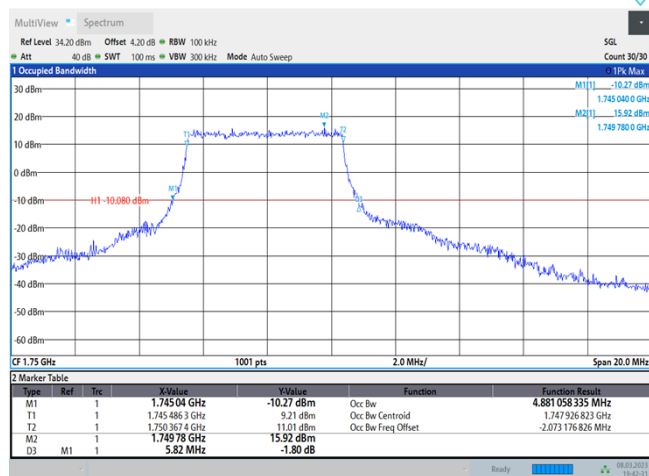


Band4-10MHz-16QAM-20175-27RB#0



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19:42:32 08.03.2023



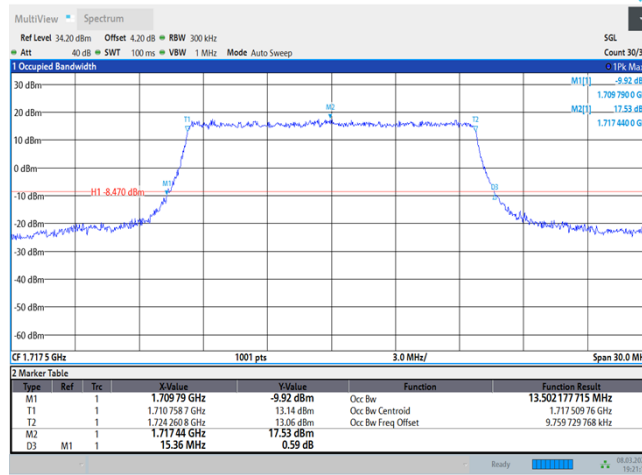
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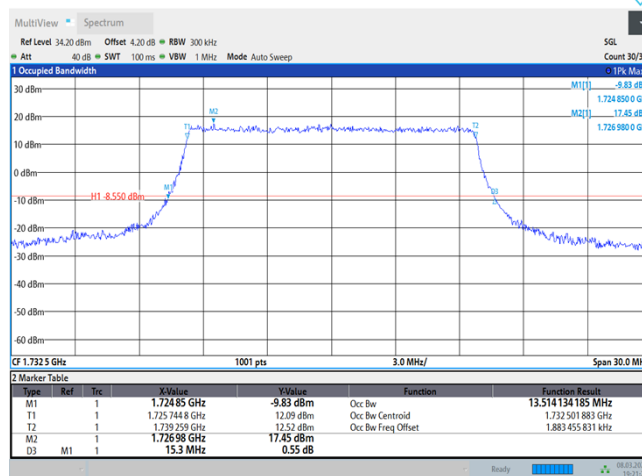
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Band4-15MHz-QPSK-20025-75RB#0



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Band4-15MHz-QPSK-20175-75RB#0



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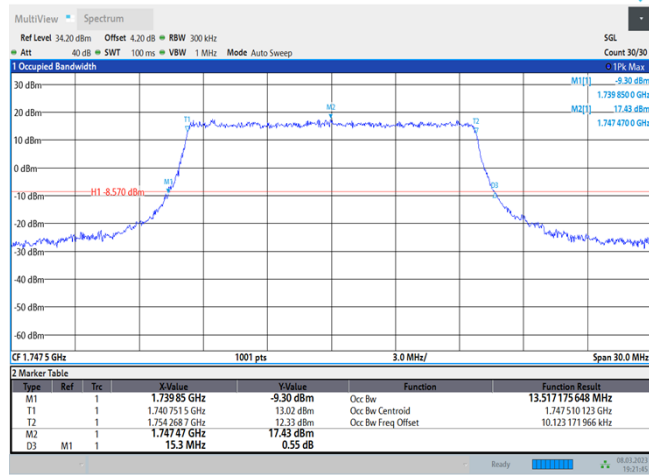
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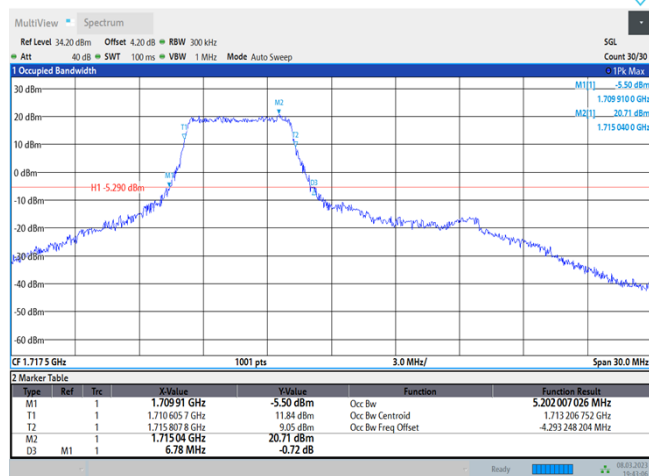
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Band4-15MHz-QPSK-20325-75RB#0



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Band4-15MHz-16QAM-20025-27RB#0



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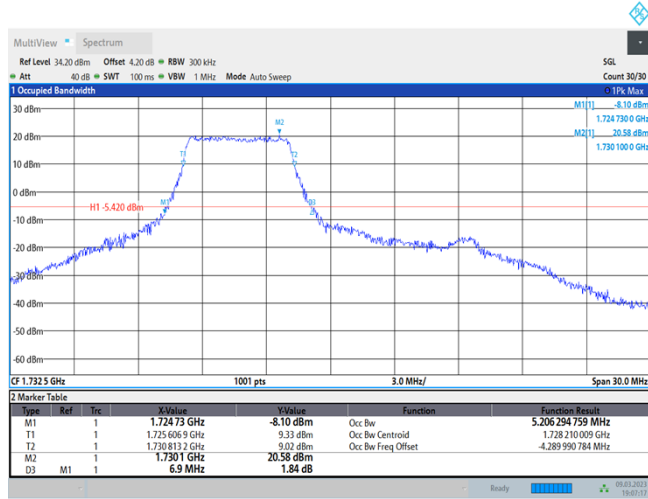


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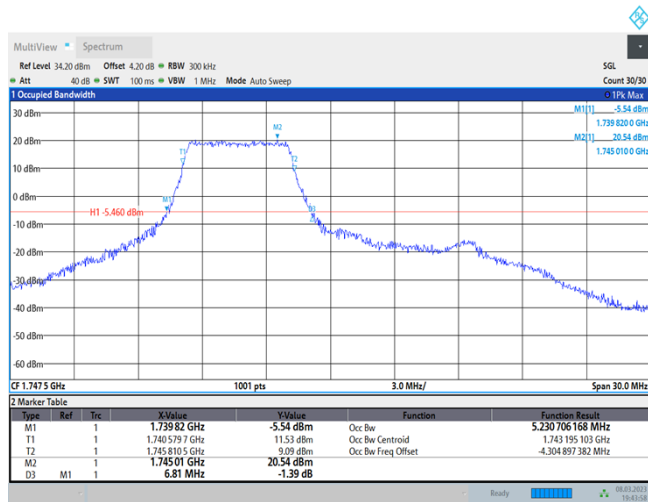
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Band4-15MHz-16QAM-20175-27RB#0



19:07:17 09.03.2023

Band4-15MHz-16QAM-20325-27RB#0



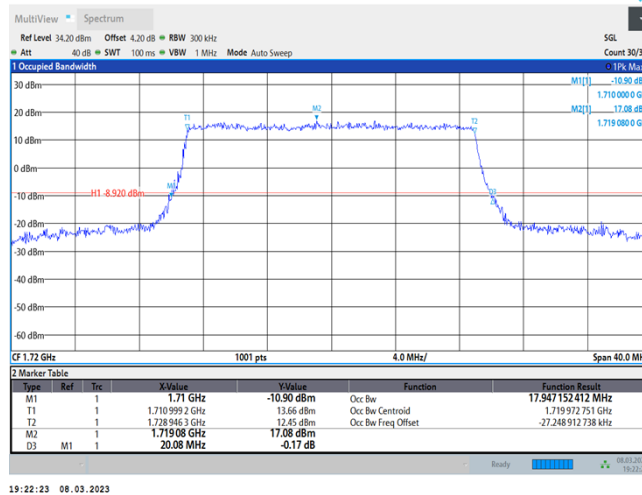
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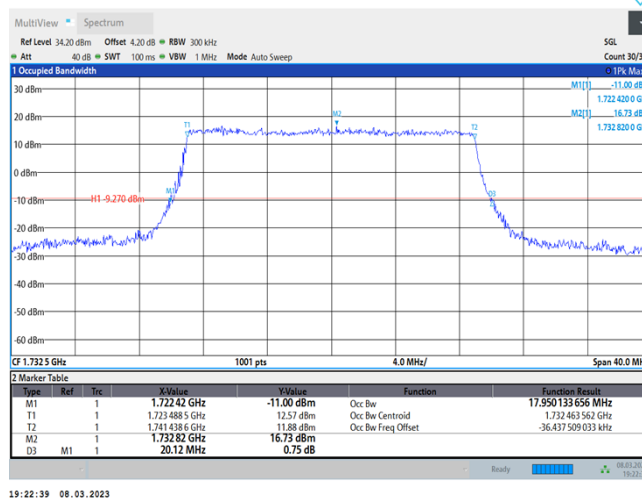
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Band4-20MHz-QPSK-20050-100RB#0



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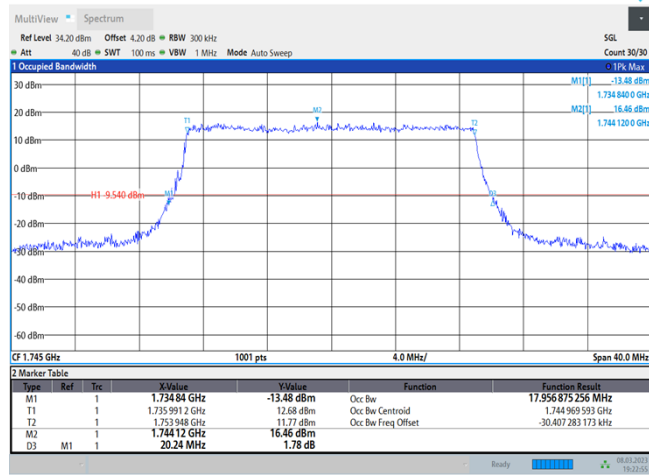
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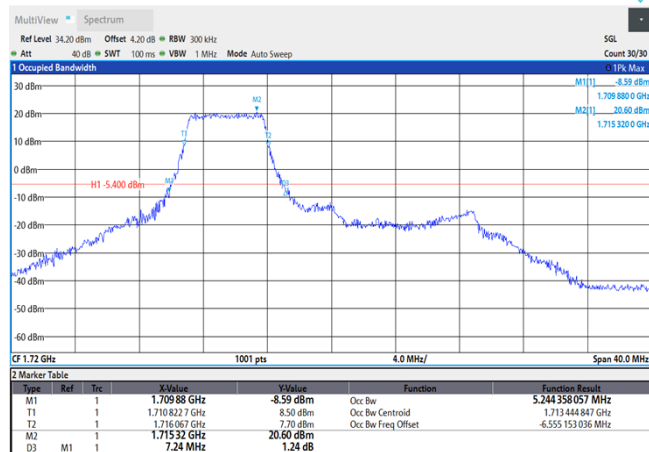
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Band4-20MHz-QPSK-20300-100RB#0



19:22:56 08.03.2023

Band4-20MHz-16QAM-20050-27RB#0



19:46:56 08.03.2023



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