

Report No.: SEWA2307000102RG01

Rev.: 01

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# Appendix B.4

## 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	23.55	25.55	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.62	25.62	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.52	25.52	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.58	24.58	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.46	25.46	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.64	25.64	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.59	25.59	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.63	24.63	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.67	25.67	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.66	25.66	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.59	25.59	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.71	24.71	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.80	24.80	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.03	25.03	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.79	24.79	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.61	23.61	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.14	25.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.90	24.90	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.14	25.14	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.69	23.69	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.05	25.05	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.06	25.06	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.97	24.97	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.77	23.77	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.84	25.84	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.84	25.84	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.74	25.74	30.00	PASS



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Band4	3MHz	QPSK	19965	15RB#0	22.68	24.68	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.79	25.79	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.62	25.62	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.75	25.75	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.86	24.86	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.94	25.94	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.84	25.84	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.80	25.80	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.82	24.82	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.03	25.03	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.08	25.08	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.11	25.11	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.75	23.75	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.34	25.34	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.07	25.07	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.06	25.06	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.84	23.84	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.08	25.08	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.19	25.19	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.23	25.23	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.94	23.94	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.86	25.86	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.59	25.59	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.69	25.69	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.61	24.61	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.68	25.68	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.63	25.63	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.67	25.67	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.75	24.75	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.85	25.85	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.58	25.58	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.78	25.78	30.00	PASS



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 t (86-512) 62992980 sgs.china@sgs.com

Band4	5MHz	QPSK	20375	25RB#0	22.73	24.73	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.16	25.16	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.92	24.92	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.06	25.06	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.59	23.59	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.91	24.91	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.86	24.86	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.04	25.04	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.81	23.81	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.26	25.26	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.00	25.00	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.09	25.09	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.83	23.83	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.76	25.76	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.60	25.60	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.81	25.81	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.71	24.71	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.74	25.74	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.67	25.67	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.95	25.95	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.68	24.68	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.91	25.91	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.78	25.78	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	24.00	26.00	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.86	24.86	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.01	25.01	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.89	24.89	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.08	25.08	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.64	23.64	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.17	25.17	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.94	24.94	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.31	25.31	30.00	PASS



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Band4	10MHz	16QAM	20175	50RB#0	21.68	23.68	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.33	25.33	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.02	25.02	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.45	25.45	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.87	23.87	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.77	25.77	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.71	25.71	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.05	26.05	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.90	24.90	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	24.05	26.05	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.76	25.76	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.15	26.15	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.85	24.85	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	24.03	26.03	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.89	25.89	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.11	26.11	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.92	24.92	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.23	25.23	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.13	25.13	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.37	25.37	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.87	23.87	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.25	25.25	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.16	25.16	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.46	25.46	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.91	23.91	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.27	25.27	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.28	25.28	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.48	25.48	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.89	23.89	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.62	25.62	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.63	25.63	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.92	25.92	30.00	PASS



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Band4	20MHz	QPSK	20050	100RB#0	22.86	24.86	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.79	25.79	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.82	25.82	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	24.05	26.05	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.96	24.96	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.74	25.74	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.70	25.70	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	24.01	26.01	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.84	24.84	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.83	24.83	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.08	25.08	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.24	25.24	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.93	23.93	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.13	25.13	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.16	25.16	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.47	25.47	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.91	23.91	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.99	24.99	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.08	25.08	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.38	25.38	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.91	23.91	30.00	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	5.48	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.58	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.66	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.26	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.40	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.54	13	PASS



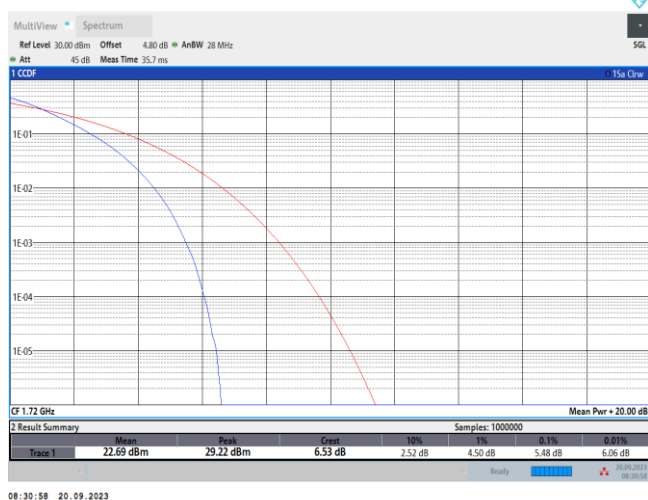
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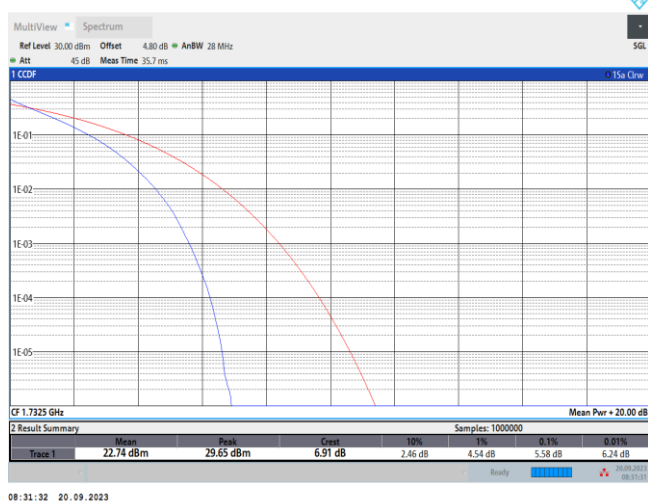
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Test Graphs

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



Band4-20MHz-QPSK-20175-100RB#0



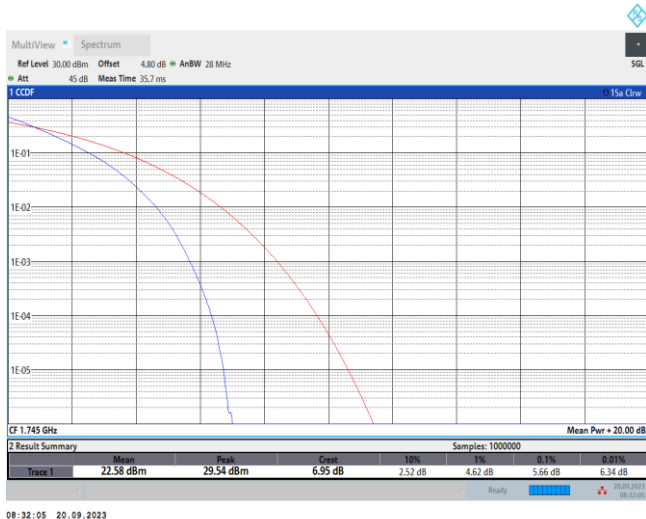
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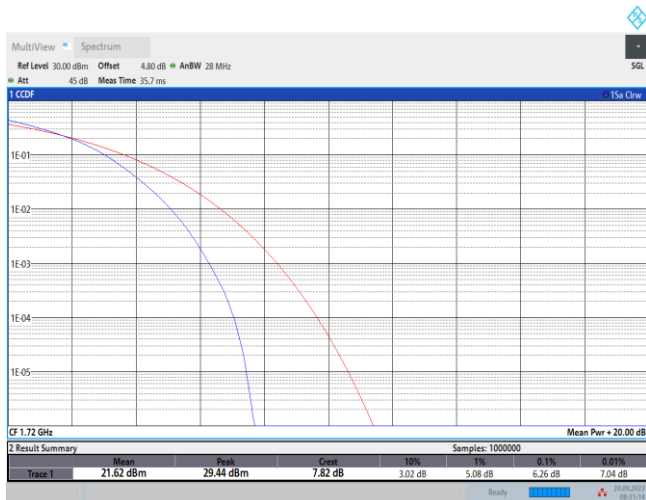


Band4-20MHz-QPSK-20300-100RB#0



08:32:05 20.09.2023

Band4-20MHz-16QAM-20050-100RB#0



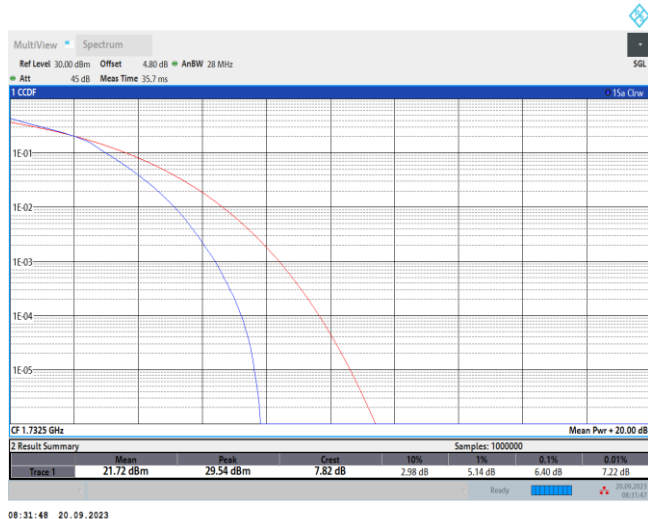
08:31:15 20.09.2023



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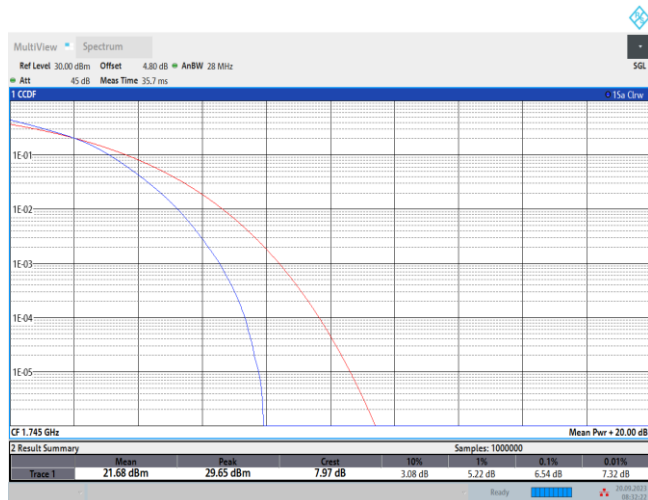
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Band4-20MHz-16QAM-20175-100RB#0



08:31:48 20.09.2023

Band4-20MHz-16QAM-20300-100RB#0



08:32:22 20.09.2023



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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	20175	6RB#0	1.089	1.29	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.31	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.692	2.97	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.688	2.96	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.47	4.90	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.467	4.94	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.926	9.70	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.916	9.66	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.483	14.79	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.469	14.79	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.951	19.40	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.934	19.48	PASS



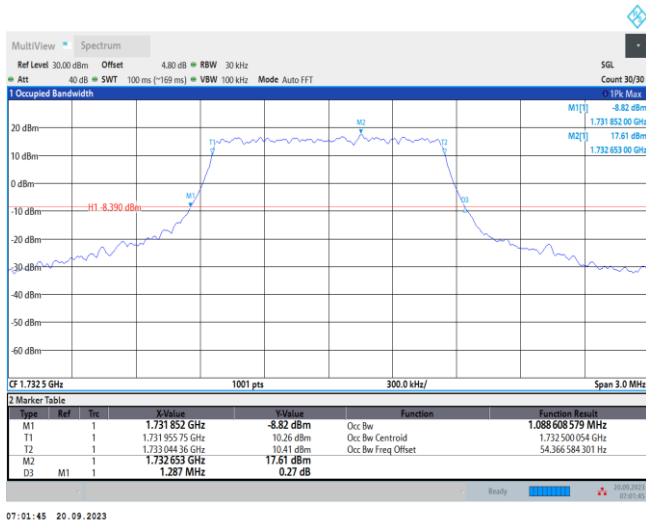
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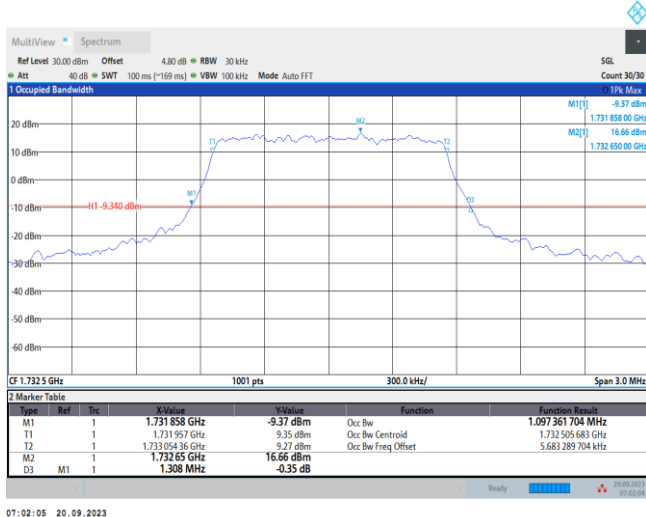
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Test Graphs

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



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

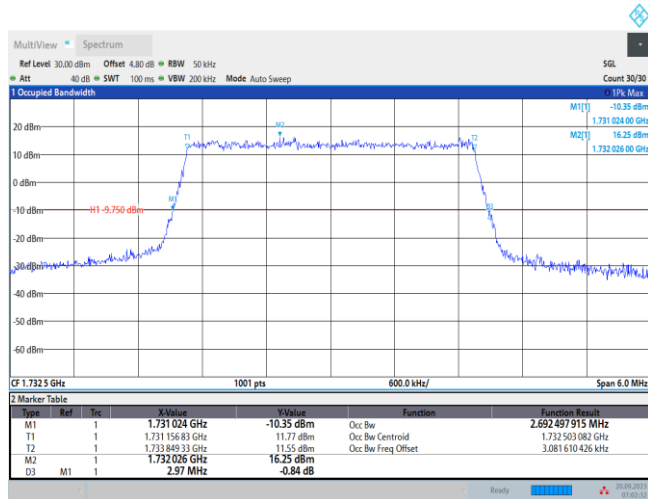


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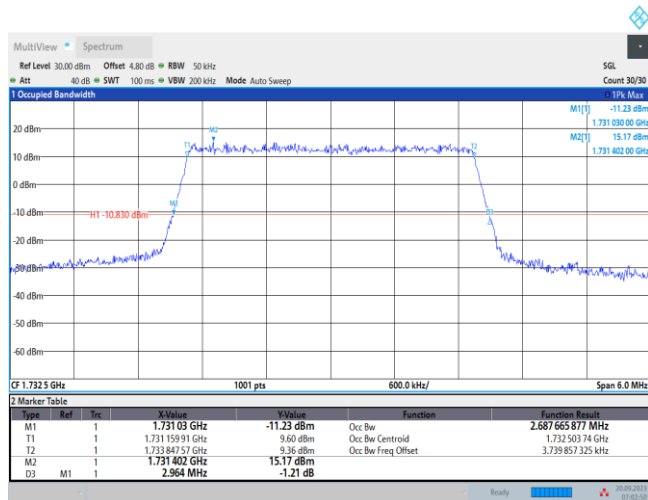


Band4-3MHz-QPSK-20175-15RB#0



07:02:33 20.09.2023

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



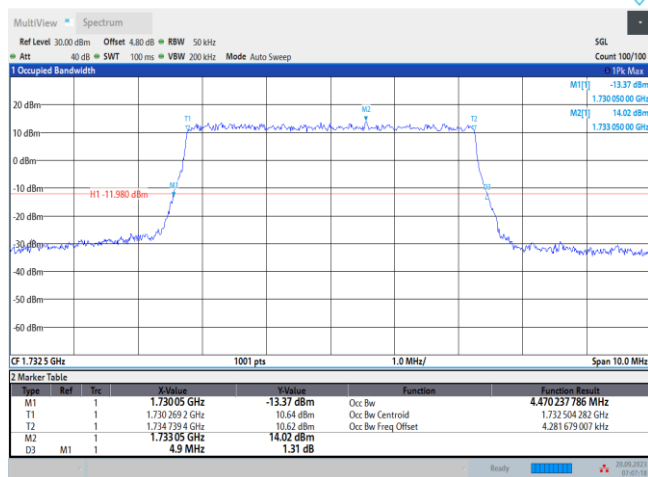
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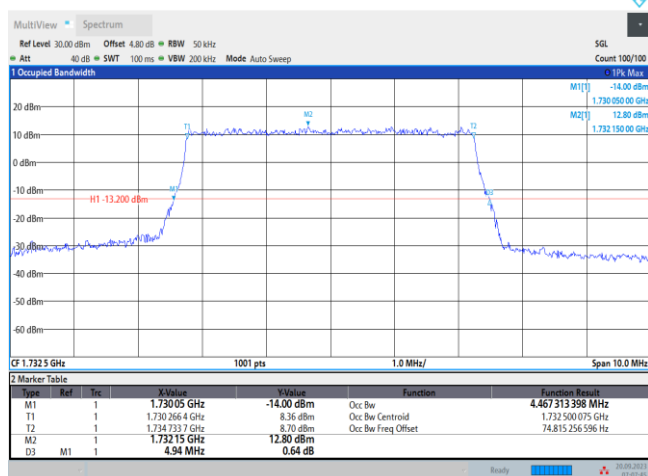
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Band4-5MHz-QPSK-20175-25RB#0



07:07:20 20.09.2023

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



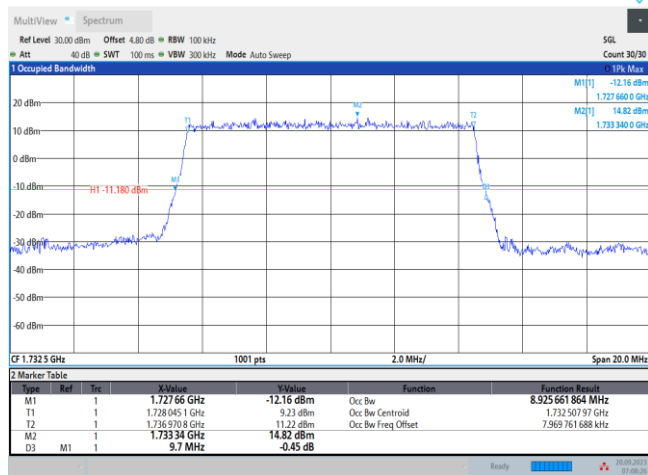
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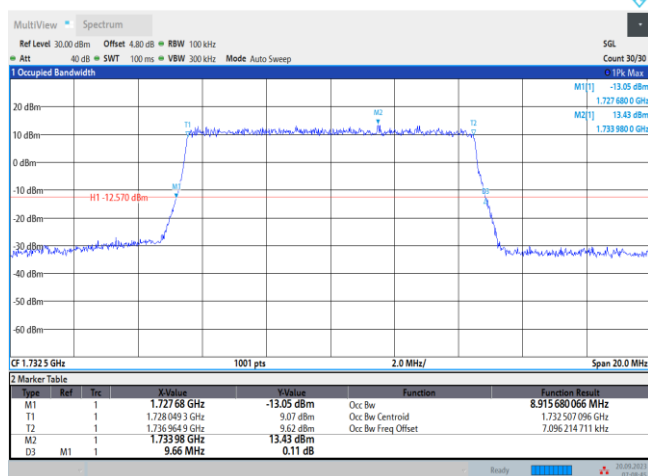
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Band4-10MHz-QPSK-20175-50RB#0



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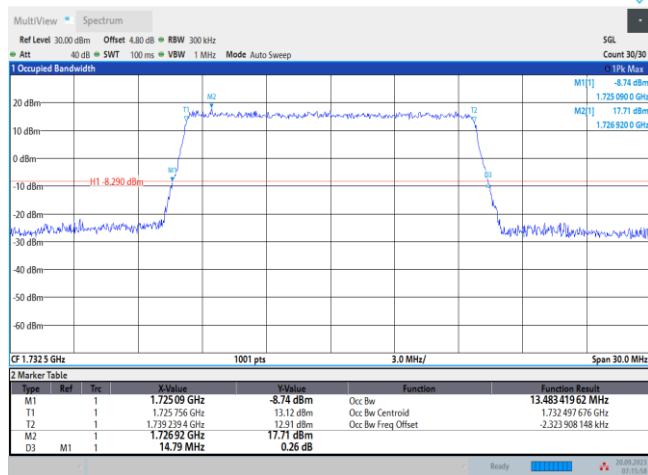
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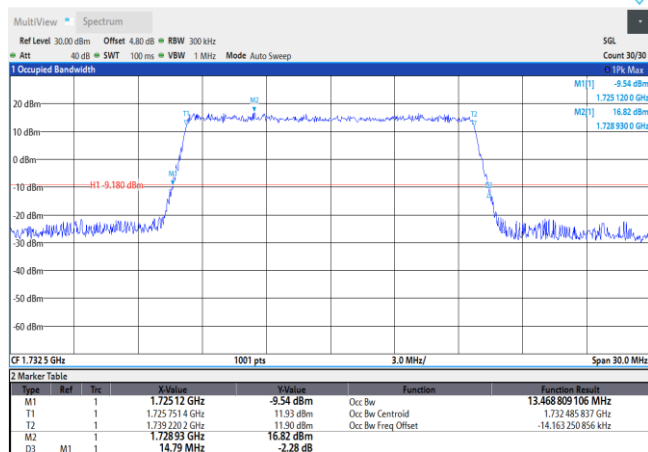
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Band4-15MHz-QPSK-20175-75RB#0



07:15:58 20.09.2023

Band4-15MHz-16QAM-20175-75RB#0



07:16:17 20.09.2023



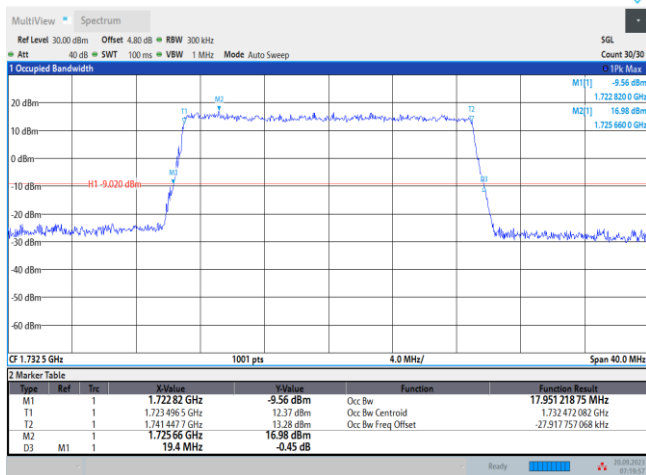
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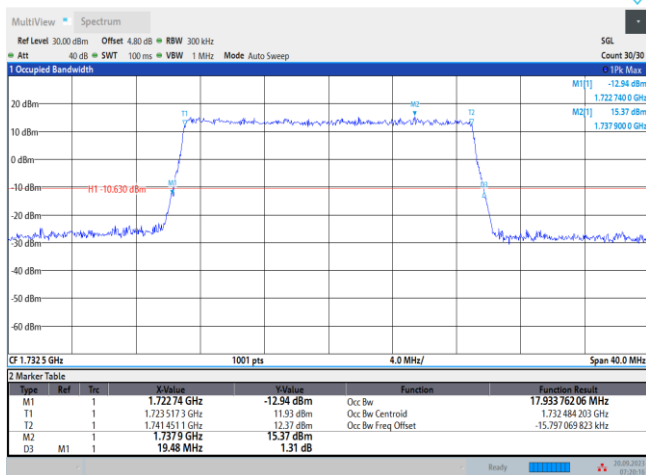


Band4-20MHz-QPSK-20175-100RB#0



07:19:58 20.09.2023

Band4-20MHz-16QAM-20175-100RB#0



07:20:16 20.09.2023



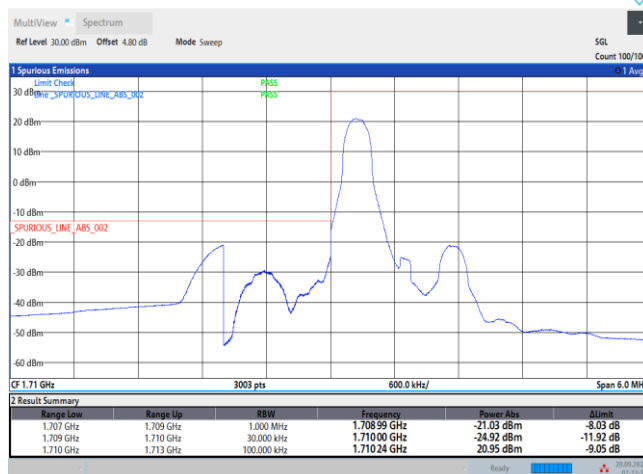
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## Band Edge

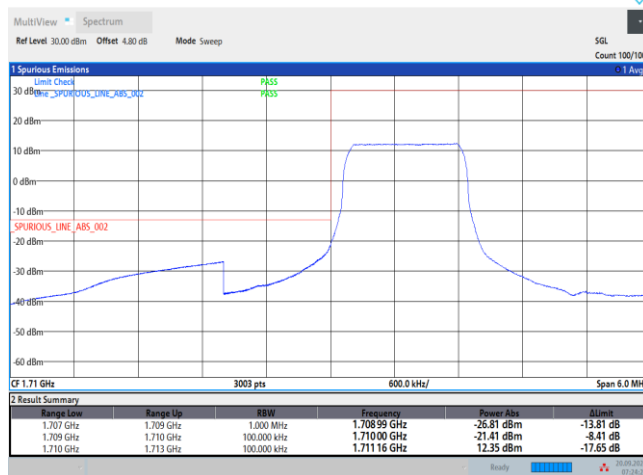
## Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



07:22:37 20.09.2023

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



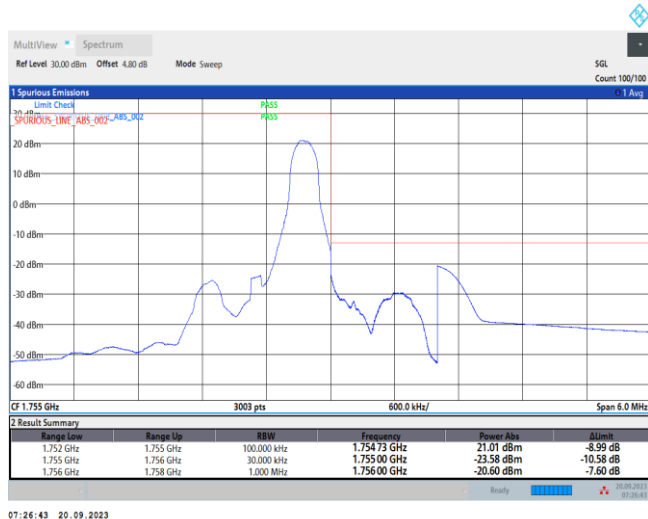
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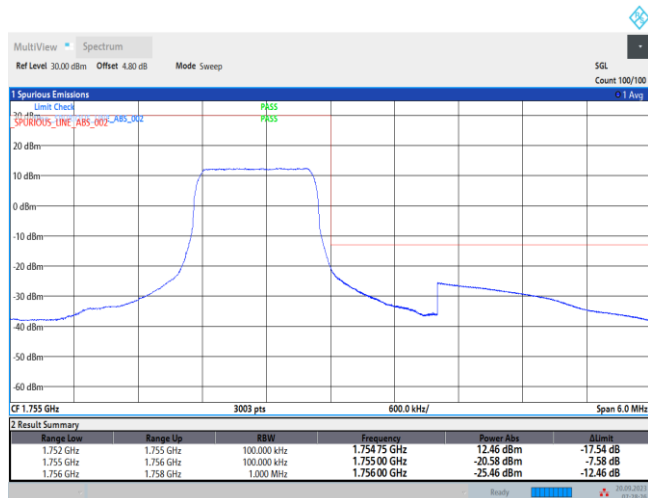
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Band4-1.4MHz-QPSK-20393-1RB#5



07:26:43 20.09.2023

Band4-1.4MHz-QPSK-20393-6RB#0



07:28:27 20.09.2023

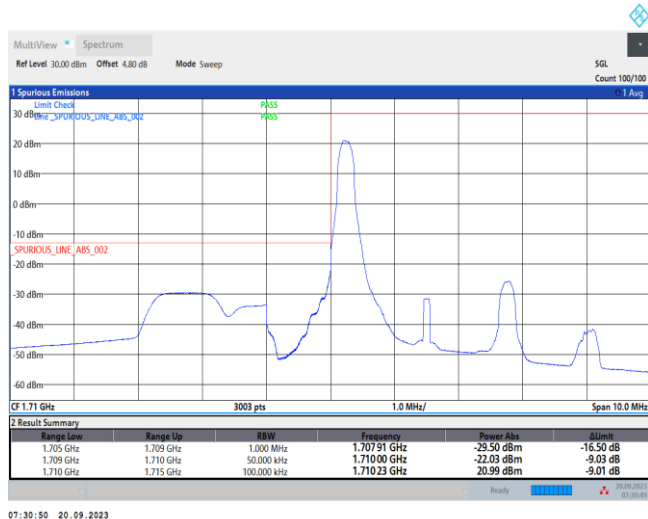


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Band4-3MHz-QPSK-19965-1RB#0



07:30:50 20.09.2023

Band4-3MHz-QPSK-19965-15RB#0



07:32:33 20.09.2023

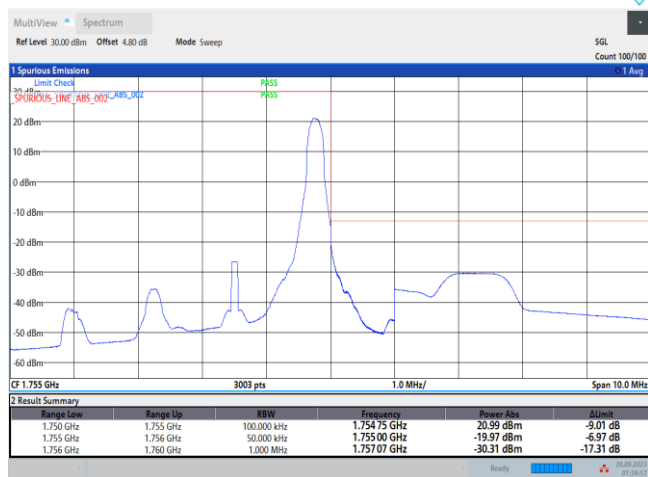


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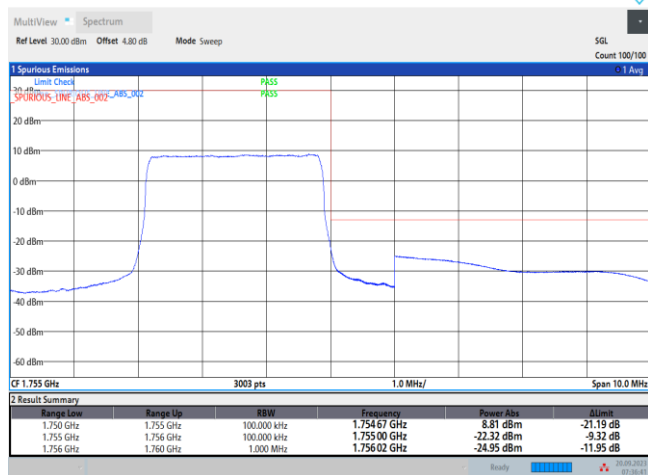


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07:36:41 20.09.2023

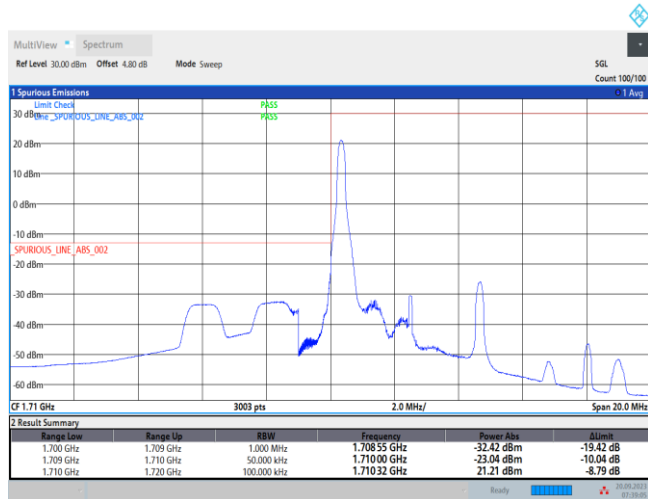


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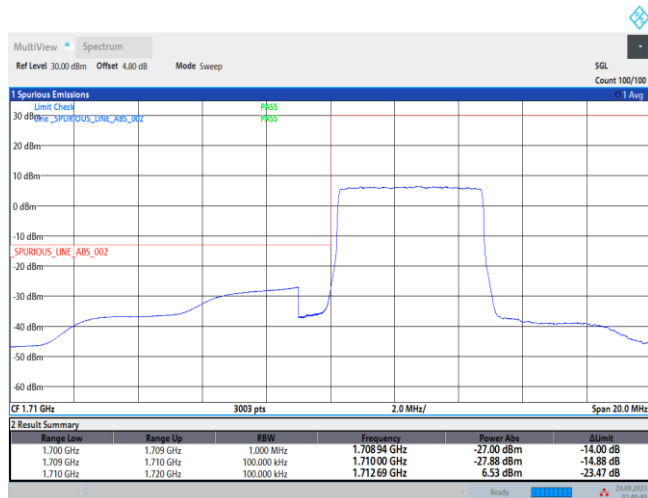
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Band4-5MHz-QPSK-19975-1RB#0



07:39:06 20.09.2023

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



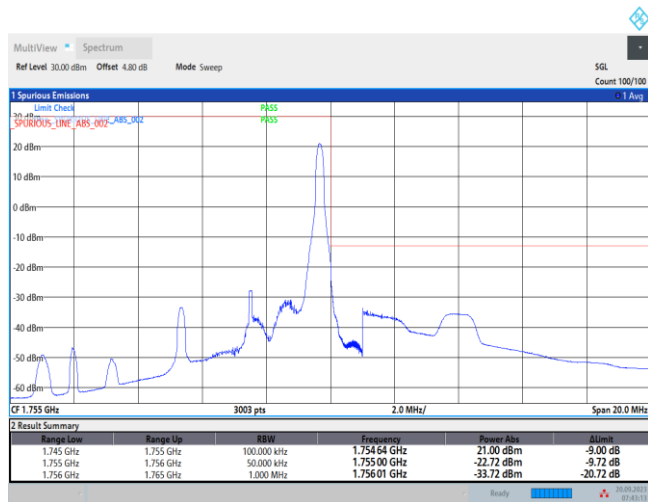
07:40:50 20.09.2023



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Band4-5MHz-QPSK-20375-1RB#24



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



07:44:58 20.09.2023

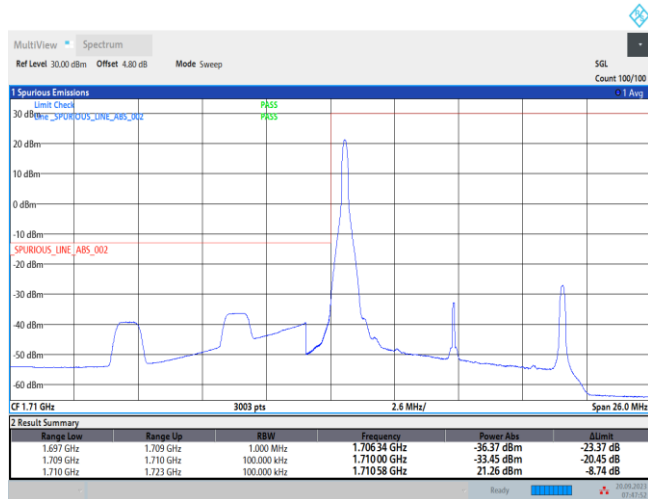


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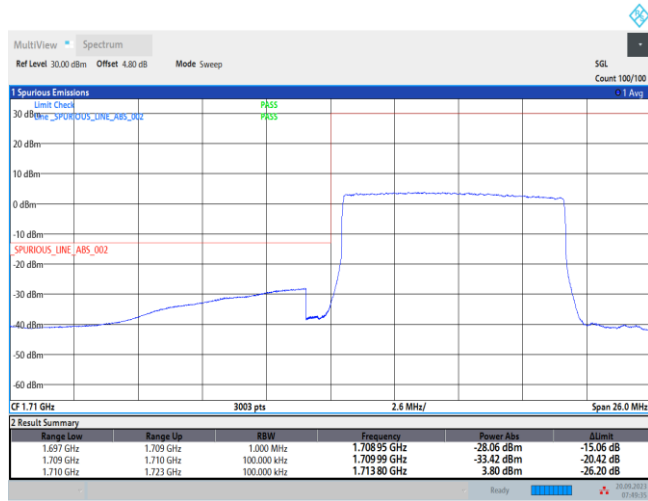
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Band4-10MHz-QPSK-20000-1RB#0



07:47:52 20.09.2023

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



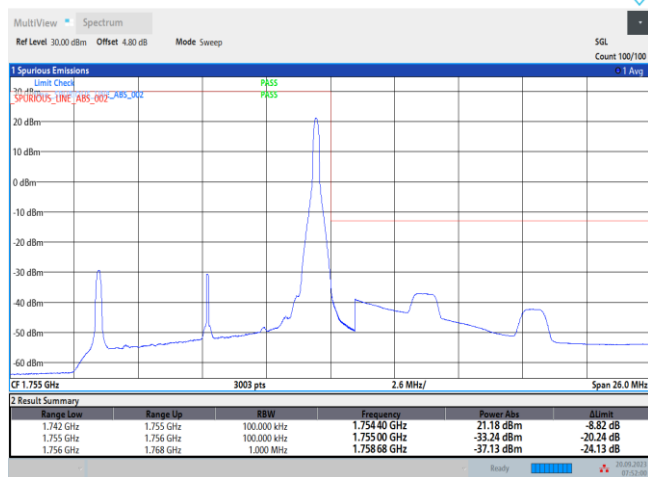
07:49:36 20.09.2023



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Band4-10MHz-QPSK-20350-1RB#49



07:52:00 20.09.2023

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



07:53:44 20.09.2023



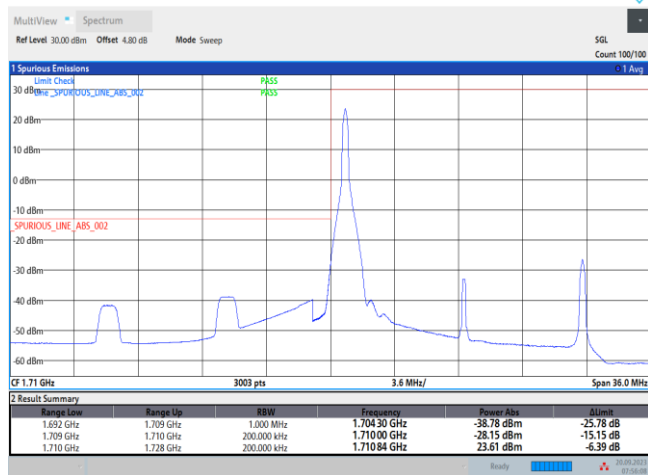
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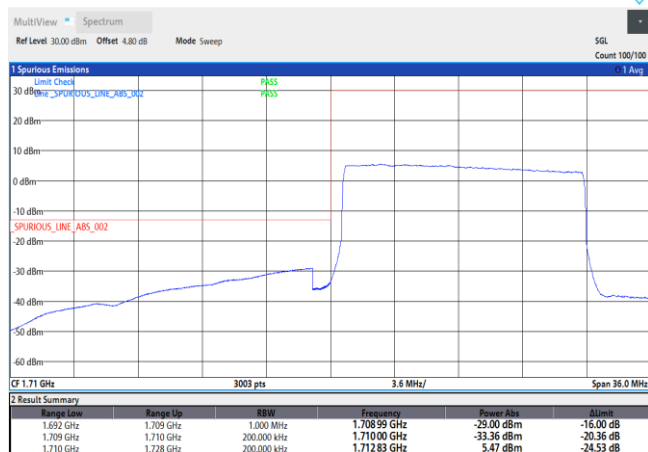


Band4-15MHz-QPSK-20025-1RB#0



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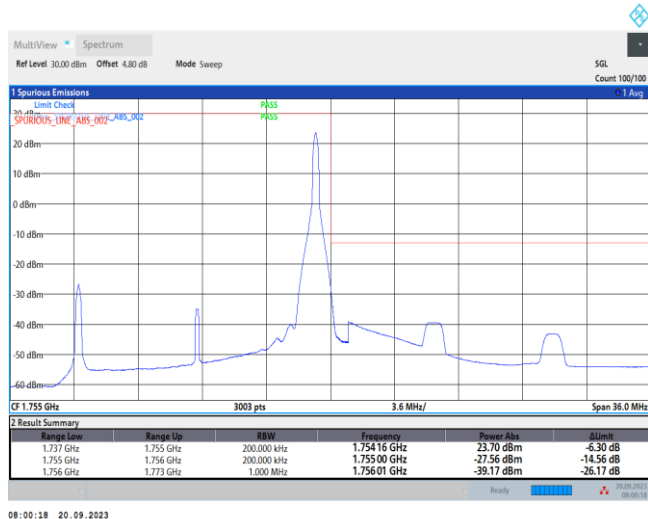
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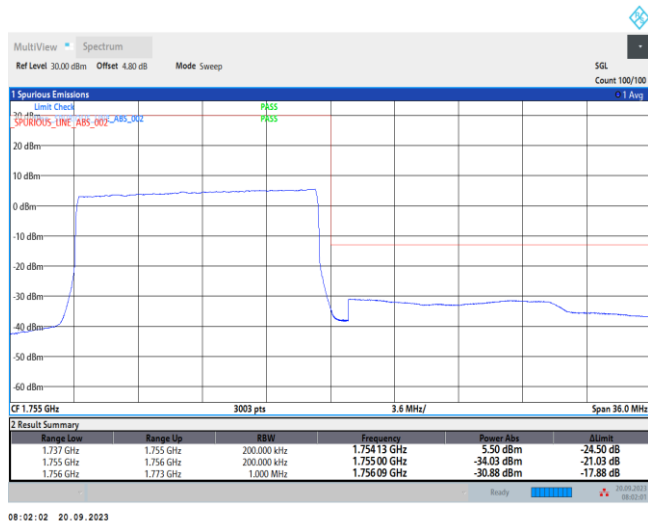
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Band4-15MHz-QPSK-20325-1RB#74



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

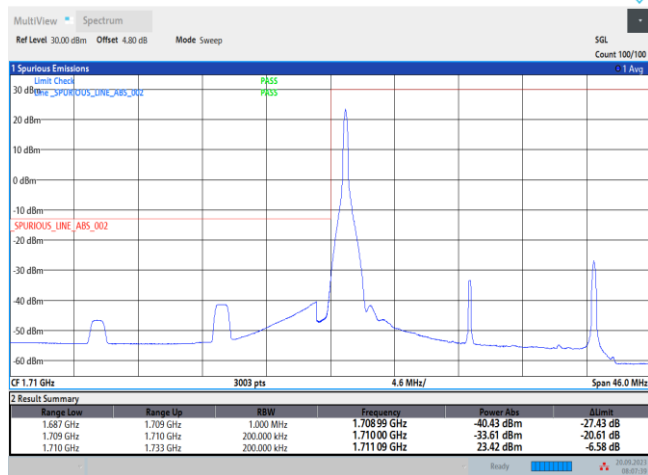


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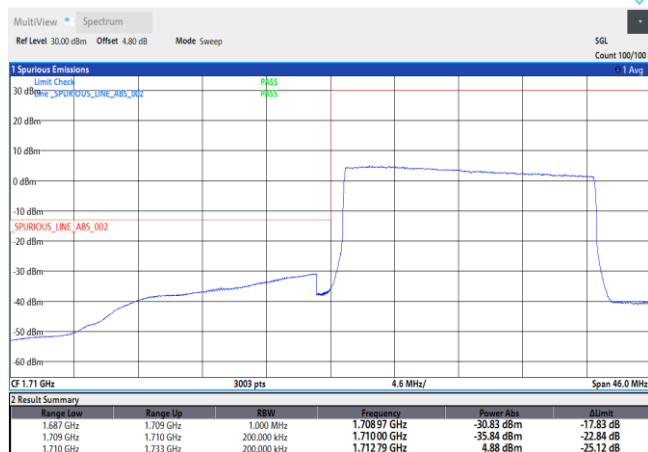
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Band4-20MHz-QPSK-20050-1RB#0



08:07:40 20.09.2023

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



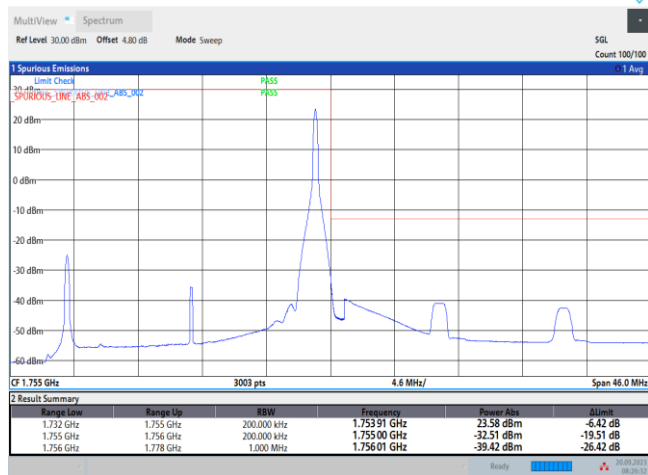
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Band4-20MHz-QPSK-20300-1RB#99



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



08:28:16 20.09.2023



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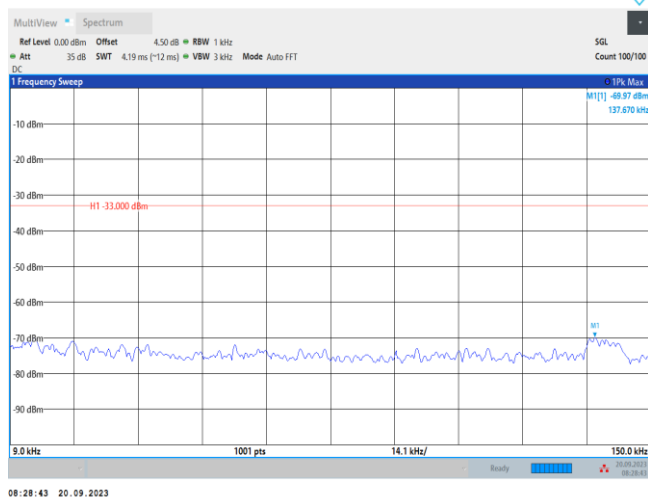
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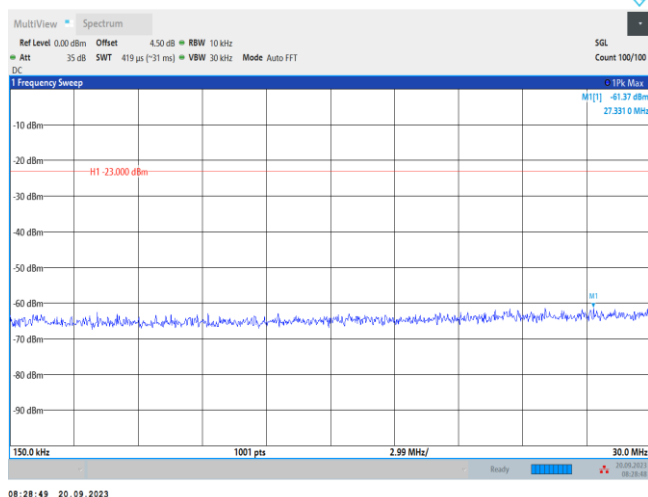
## Conducted Spurious Emission

### Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

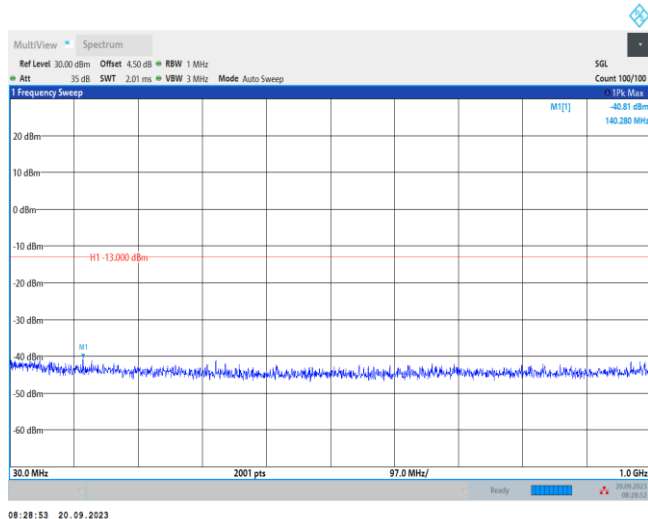


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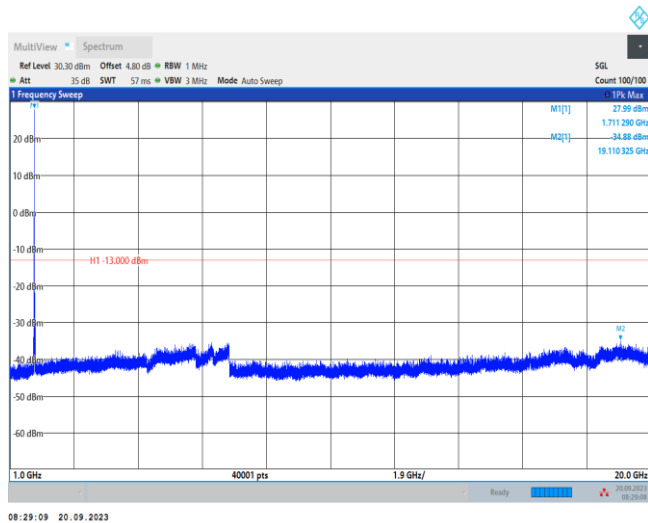
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



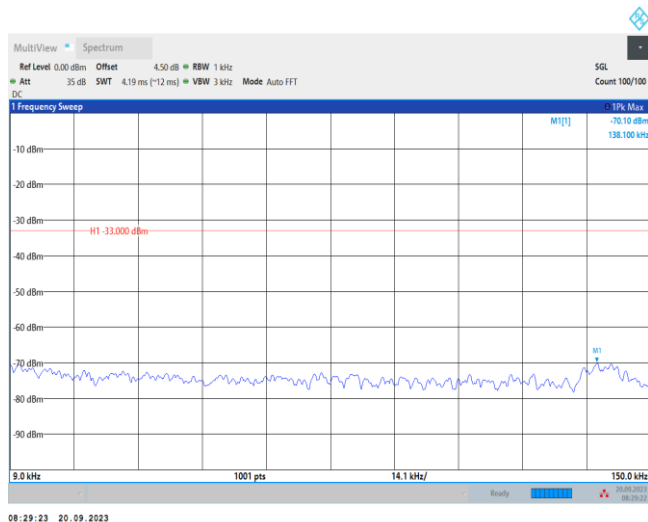
Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



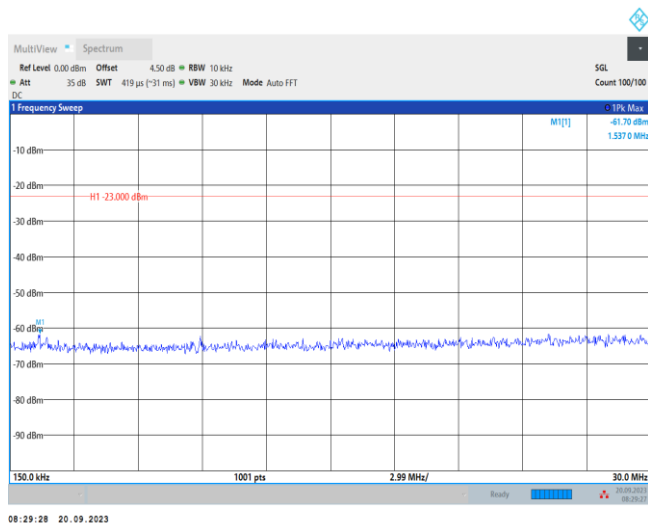
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



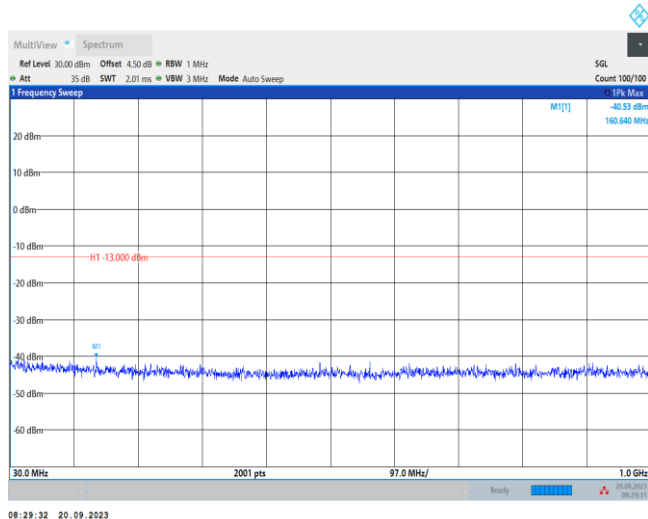
Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



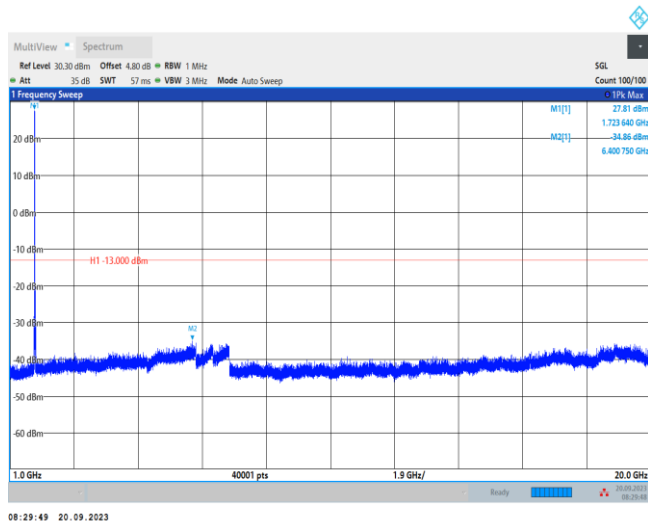
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



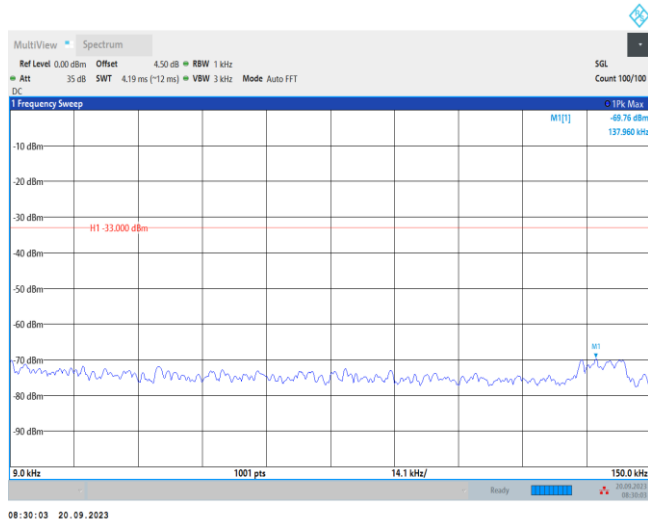
Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



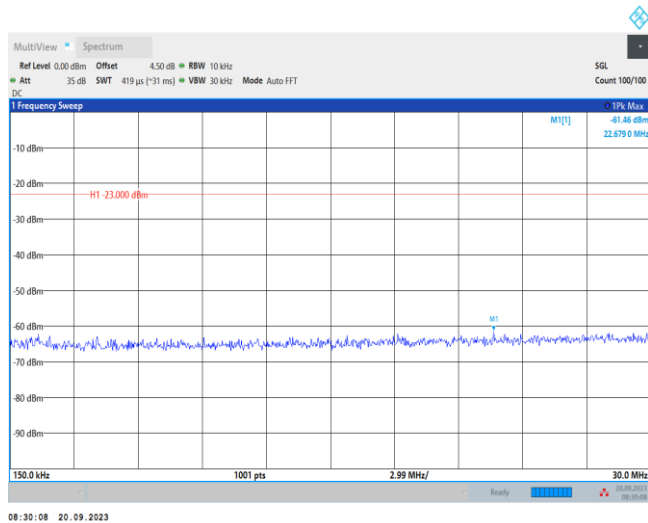
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



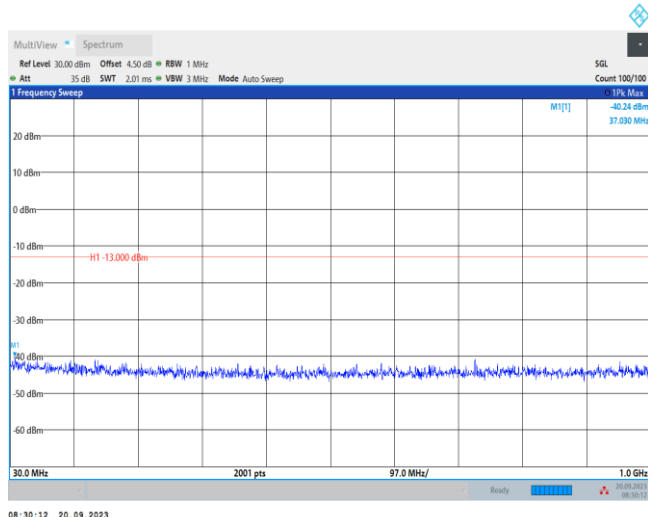
Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



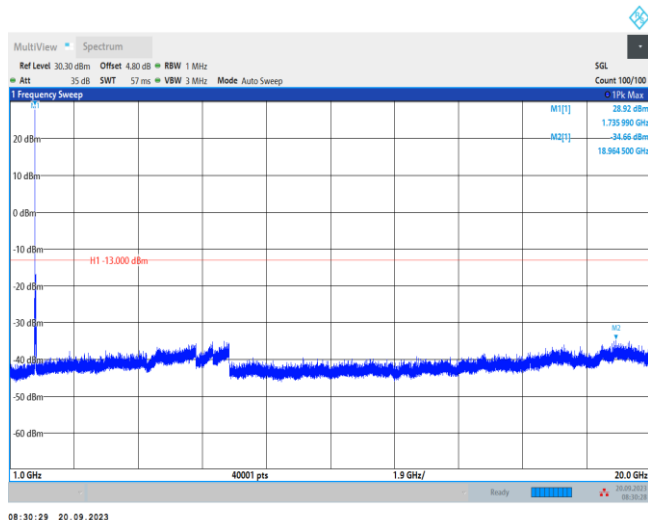
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band4\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	41.24	-46.28	28.55	-71.74	-13.00	58.74	Horizontal
2	5133.2700	39.17	-45.34	31.72	-69.71	-13.00	56.71	Horizontal
3	6844.3600	38.40	-44.14	34.92	-66.08	-13.00	53.08	Horizontal
4	8555.4500	35.49	-41.46	36.52	-64.71	-13.00	51.71	Horizontal
5	10266.5400	30.45	-39.23	38.33	-65.70	-13.00	52.70	Horizontal
6	11977.6300	27.22	-37.51	38.80	-66.76	-13.00	53.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.72	-46.28	28.55	-72.26	-13.00	59.26	Vertical
2	5133.2700	38.40	-45.34	31.72	-70.48	-13.00	57.48	Vertical
3	6844.3600	38.31	-44.14	34.92	-66.17	-13.00	53.17	Vertical
4	8555.4500	35.92	-41.46	36.52	-64.28	-13.00	51.28	Vertical
5	10266.5400	31.33	-39.23	38.33	-64.82	-13.00	51.82	Vertical
6	11977.6300	26.42	-37.51	38.80	-67.56	-13.00	54.56	Vertical



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**Test Band = LTE Band4\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	41.57	-46.27	28.57	-71.39	-13.00	58.39	Horizontal
2	5170.7700	39.49	-45.31	31.81	-69.26	-13.00	56.26	Horizontal
3	6894.3600	37.56	-44.10	35.01	-66.79	-13.00	53.79	Horizontal
4	8617.9500	35.62	-41.40	36.49	-64.54	-13.00	51.54	Horizontal
5	10341.5400	31.15	-39.06	38.37	-64.80	-13.00	51.80	Horizontal
6	12065.1300	27.20	-37.44	38.82	-66.68	-13.00	53.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	40.83	-46.27	28.57	-72.13	-13.00	59.13	Vertical
2	5170.7700	39.38	-45.31	31.81	-69.37	-13.00	56.37	Vertical
3	6894.3600	38.31	-44.10	35.01	-66.04	-13.00	53.04	Vertical
4	8617.9500	35.84	-41.40	36.49	-64.32	-13.00	51.32	Vertical
5	10341.5400	31.30	-39.06	38.37	-64.65	-13.00	51.65	Vertical
6	12065.1300	26.69	-37.44	38.82	-67.19	-13.00	54.19	Vertical



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**Test Band = LTE Band4\_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	41.35	-46.27	28.58	-71.59	-13.00	58.59	Horizontal
2	5208.2700	39.24	-45.26	31.90	-69.38	-13.00	56.38	Horizontal
3	6944.3600	37.62	-43.85	35.10	-66.39	-13.00	53.39	Horizontal
4	8680.4500	36.28	-41.62	36.46	-64.14	-13.00	51.14	Horizontal
5	10416.5400	29.98	-38.97	38.41	-65.85	-13.00	52.85	Horizontal
6	12152.6300	27.89	-37.42	38.85	-65.94	-13.00	52.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	41.58	-46.27	28.58	-71.36	-13.00	58.36	Vertical
2	5208.2700	39.33	-45.26	31.90	-69.29	-13.00	56.29	Vertical
3	6944.3600	37.57	-43.85	35.10	-66.44	-13.00	53.44	Vertical
4	8680.4500	36.09	-41.62	36.46	-64.33	-13.00	51.33	Vertical
5	10416.5400	30.60	-38.97	38.41	-65.23	-13.00	52.23	Vertical
6	12152.6300	27.37	-37.42	38.85	-66.46	-13.00	53.46	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-0.60	-0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	0.60	0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.80	0.000462	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	1.10	0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.10	-0.000058	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	0.50	0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.90	0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	1.80	0.001039	PASS

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