

Report No.: XEWA2310000073RG01  
Rev.: 01  
Page: 1 of 47

# Appendix B.4

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.90	21.19	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.04	21.33	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.03	21.32	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.08	20.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.04	21.33	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.13	21.42	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.14	21.43	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.09	20.38	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.72	21.01	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.79	21.08	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.77	21.06	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.84	20.13	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.20	20.49	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.37	20.66	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.27	20.56	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.15	19.44	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.25	20.54	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.44	20.73	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.34	20.63	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.98	19.27	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.99	20.28	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.10	20.39	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.00	20.29	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.89	19.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.87	21.16	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.11	21.4	38.45	PASS



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Rev.: 01

Page: 3 of 47

Band5	3MHz	QPSK	20415	1RB#14	23.10	21.39	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.18	20.47	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.05	21.34	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.18	21.47	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.18	21.47	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.19	20.48	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.71	21	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.88	21.17	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.84	21.13	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.91	20.2	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.21	20.5	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.42	20.71	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.38	20.67	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.21	19.5	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.28	20.57	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.50	20.79	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.37	20.66	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.20	19.49	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.02	20.31	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.18	20.47	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.13	20.42	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.96	19.25	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.00	21.29	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.18	21.47	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.17	21.46	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.20	20.49	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.16	21.45	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.27	21.56	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.17	21.46	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.19	20.48	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.89	21.18	38.45	PASS



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Table with 9 columns: Band, Frequency, Modulation, Channel, ID, S1, S2, S3, Result. Contains 40 rows of test data for various frequencies (5MHz and 10MHz) and modulations (QPSK and 16QAM).



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Rev.: 01

Page: 5 of 47

Band5	10MHz	16QAM	20525	1RB#0	22.45	20.74	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.26	20.55	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.35	20.64	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.26	19.55	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.19	20.48	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.09	20.38	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.08	20.37	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.03	19.32	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.50	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.52	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.54	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.26	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.38	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.28	13	PASS



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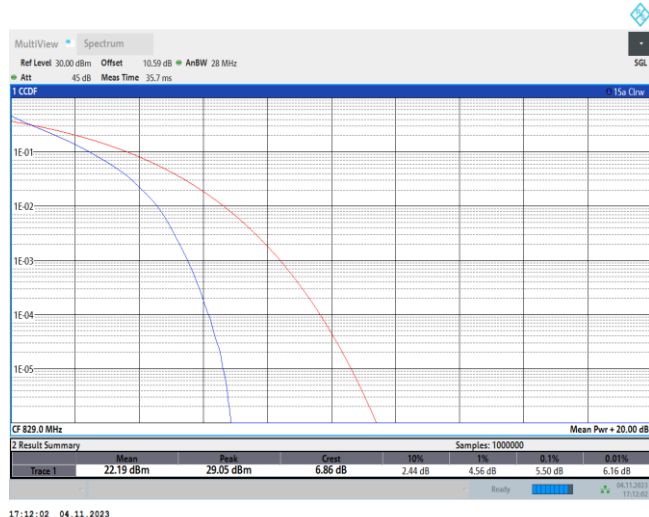
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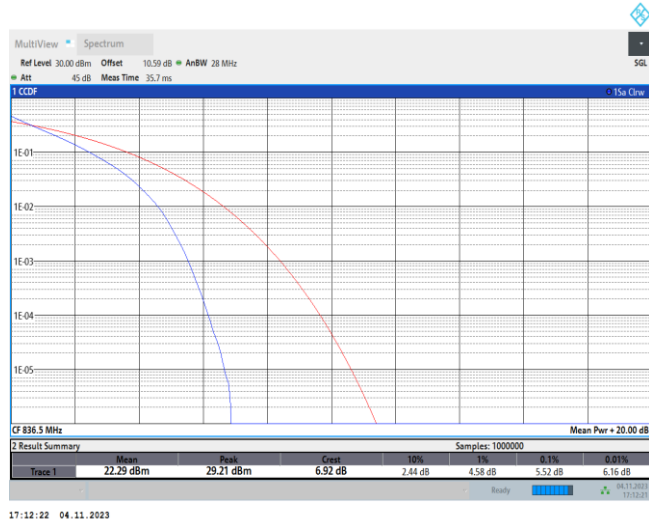
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Test Graphs

Band5-10MHz-QPSK-20450-50RB#0

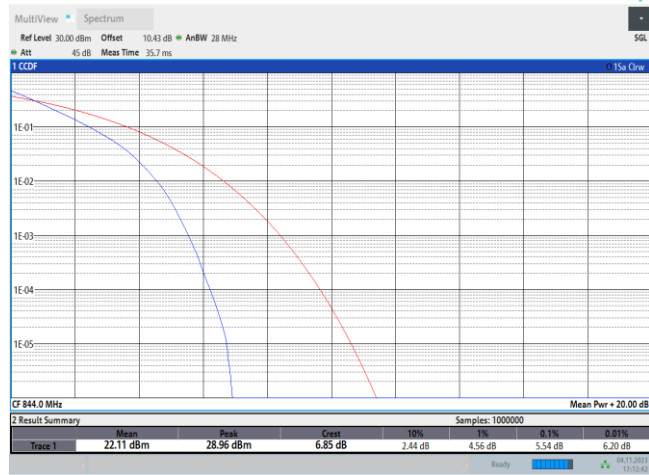


Band5-10MHz-QPSK-20525-50RB#0



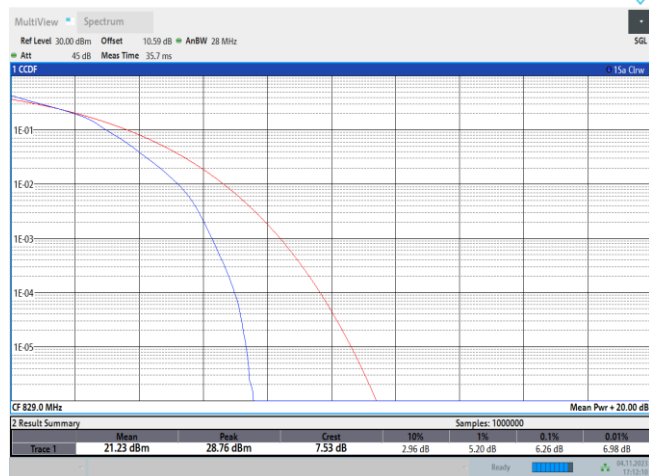
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Band5-10MHz-QPSK-20600-50RB#0



17:12:43 04.11.2023

Band5-10MHz-16QAM-20450-50RB#0



17:12:11 04.11.2023



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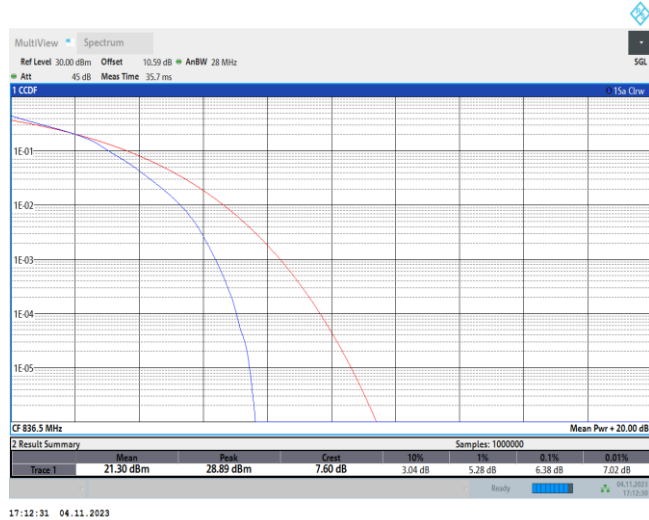
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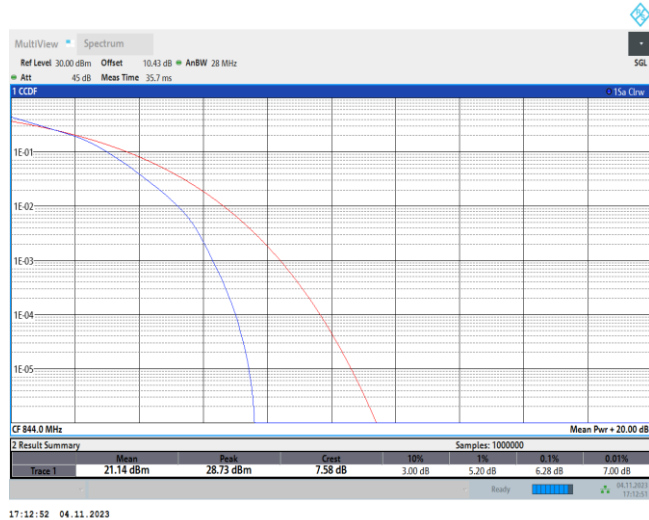
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Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.081	1.24	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.099	1.24	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.25	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.094	1.25	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.093	1.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.093	1.25	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.695	2.98	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.696	3.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	2.97	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.693	3.00	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.692	3.00	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.699	2.98	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.485	4.93	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.47	4.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.483	4.92	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.475	4.88	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.478	4.93	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.471	4.86	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.947	9.66	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.945	9.64	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.941	9.66	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.932	9.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.938	9.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.934	9.68	PASS



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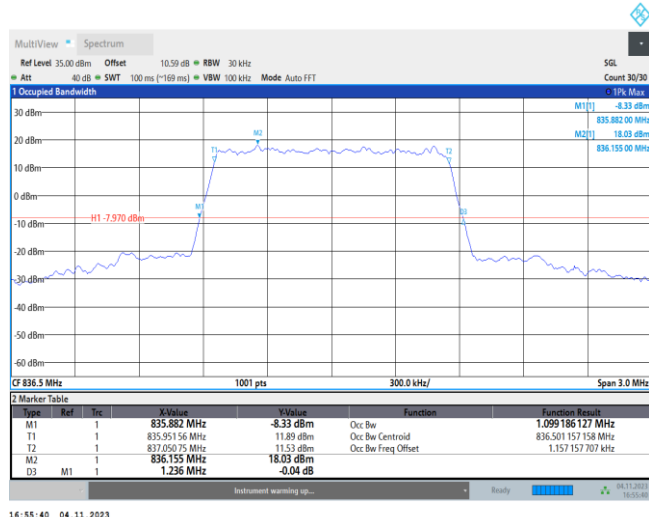
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Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



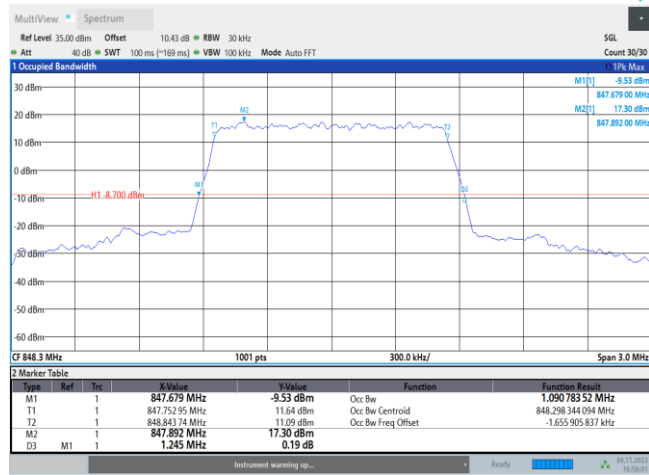
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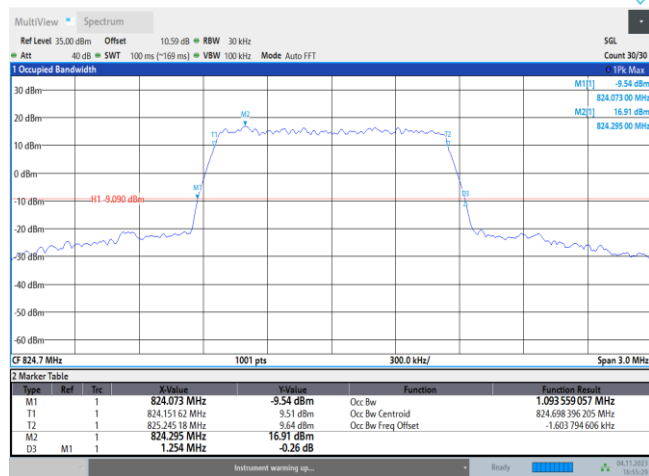
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Band5-1.4MHz-QPSK-20643-6RB#0



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Band5-1.4MHz-16QAM-20407-6RB#0



16:58:30 04.11.2023



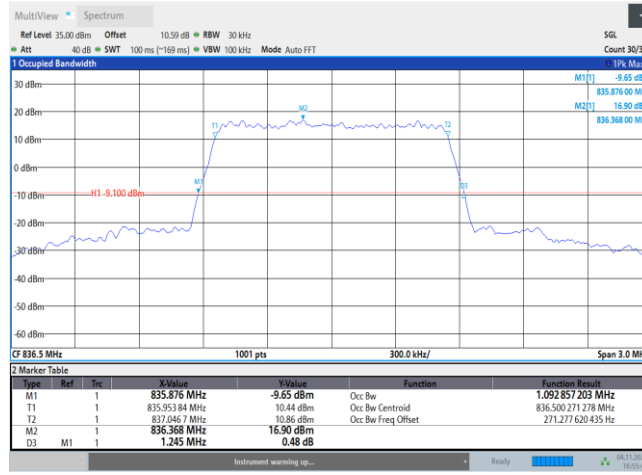
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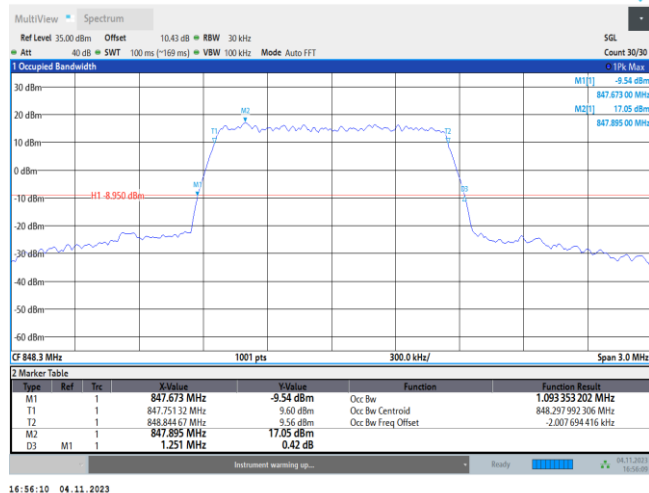
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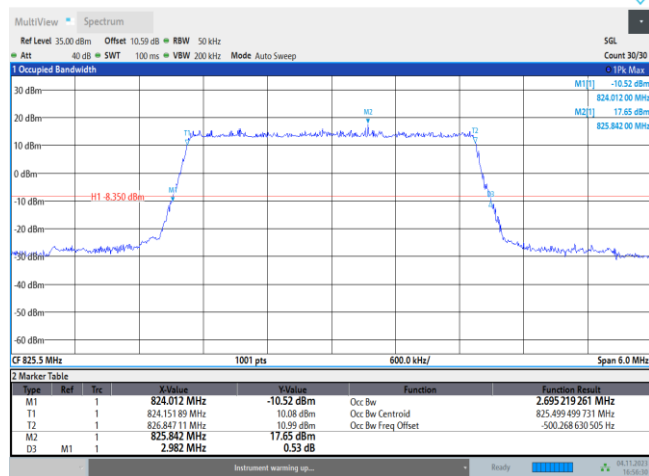
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Band5-3MHz-QPSK-20415-15RB#0



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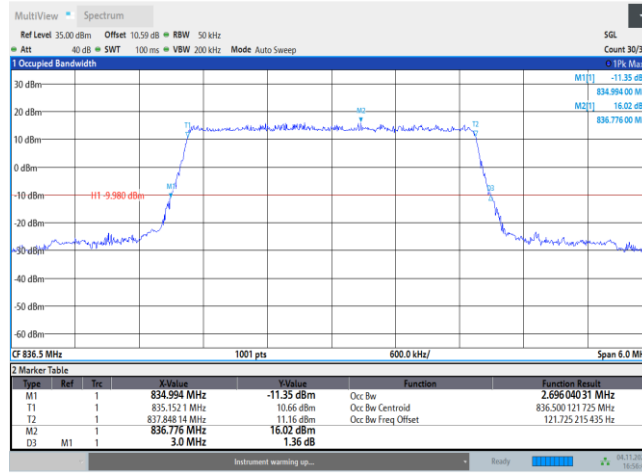
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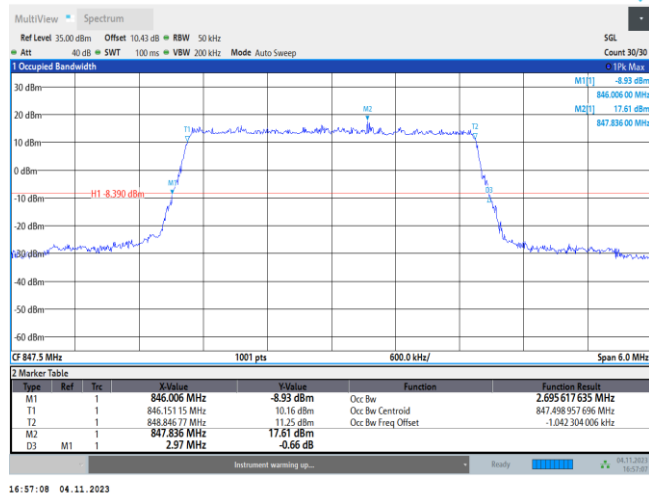
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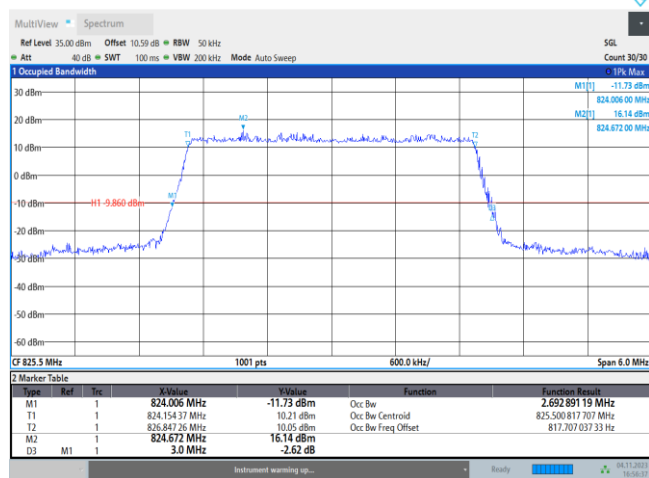
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16:57:08 04.11.2023

Band5-3MHz-16QAM-20415-15RB#0



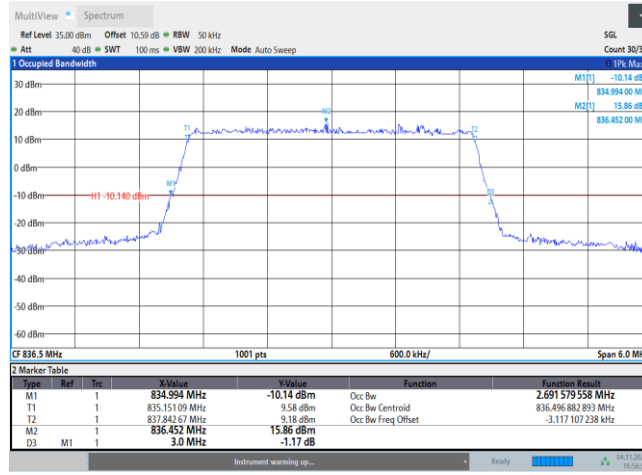
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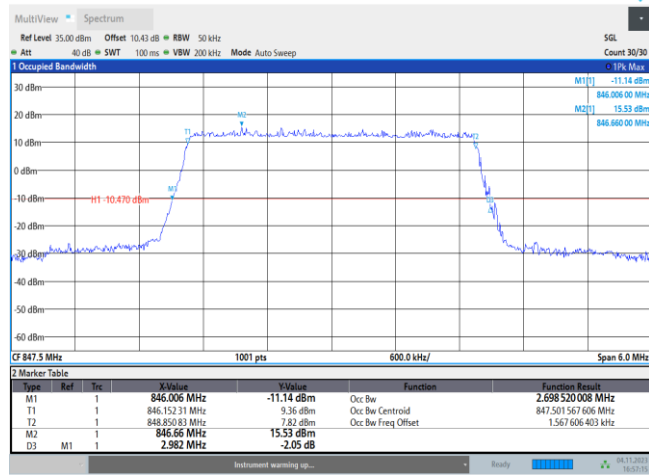
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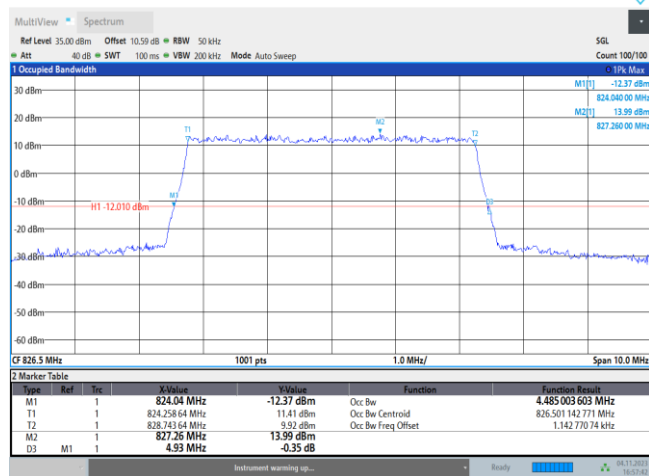
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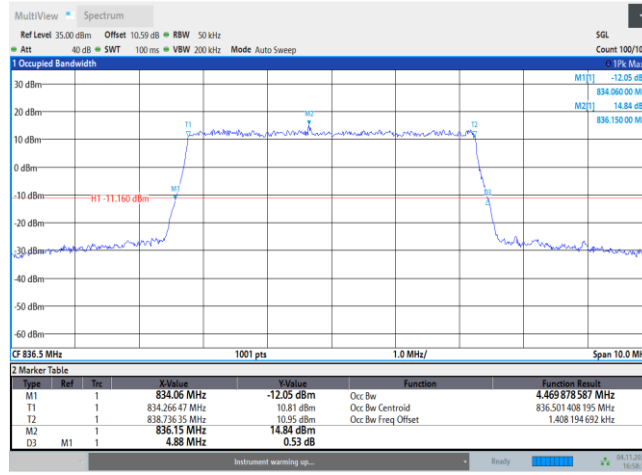
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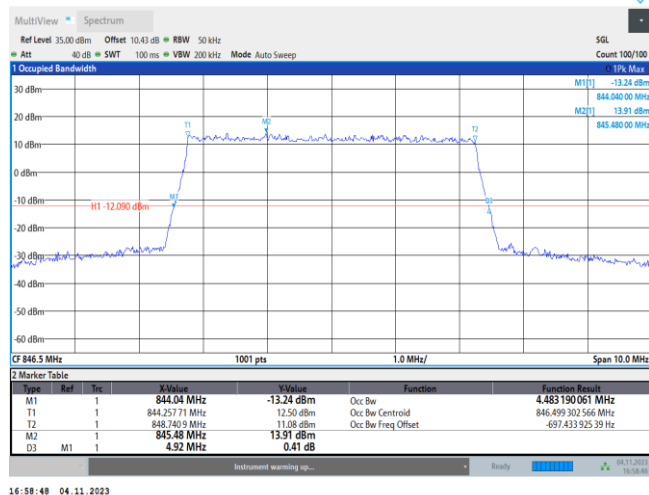
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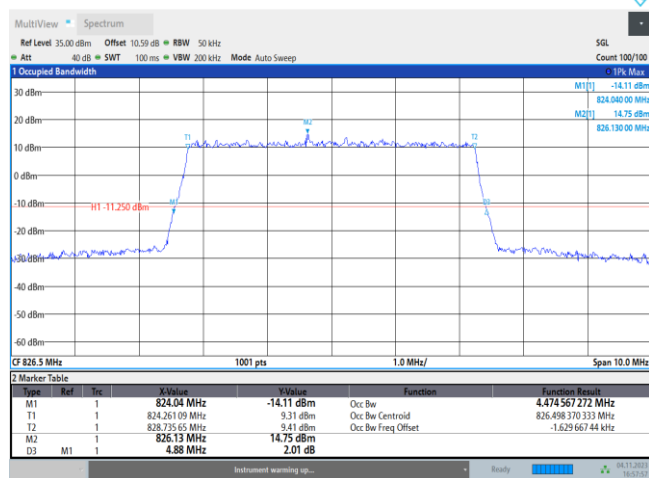
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Band5-5MHz-16QAM-20425-25RB#0



16:57:57 04.11.2023



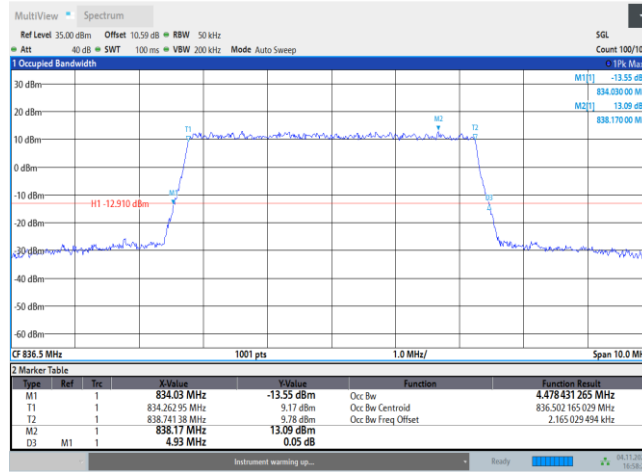
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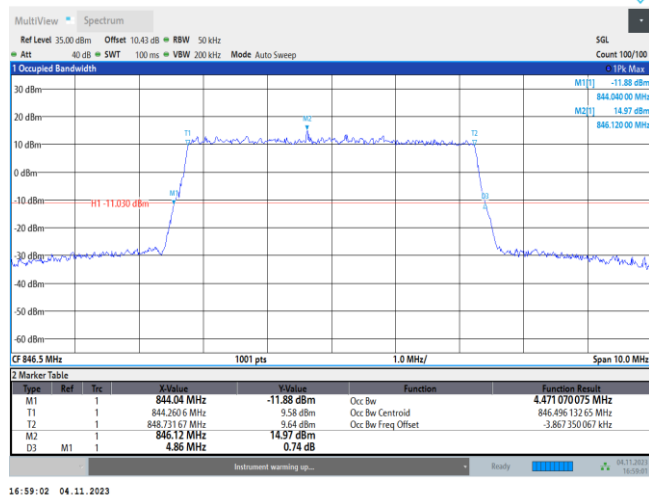
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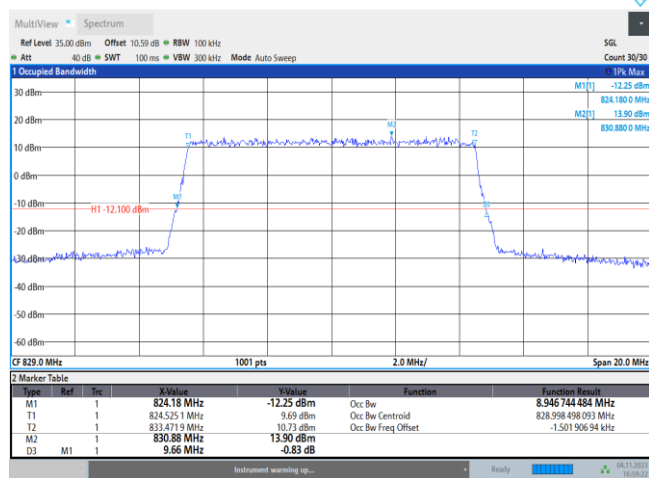
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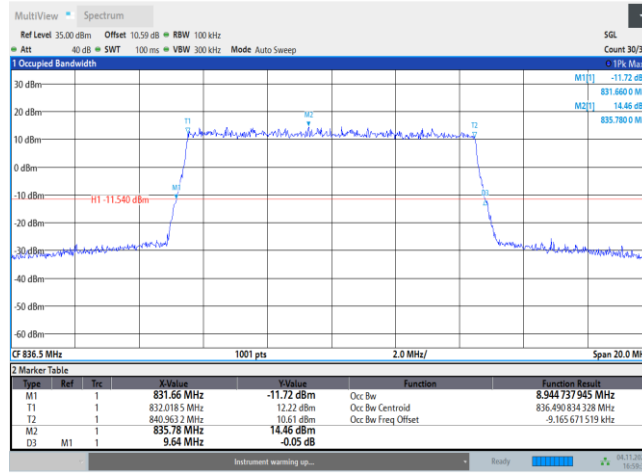
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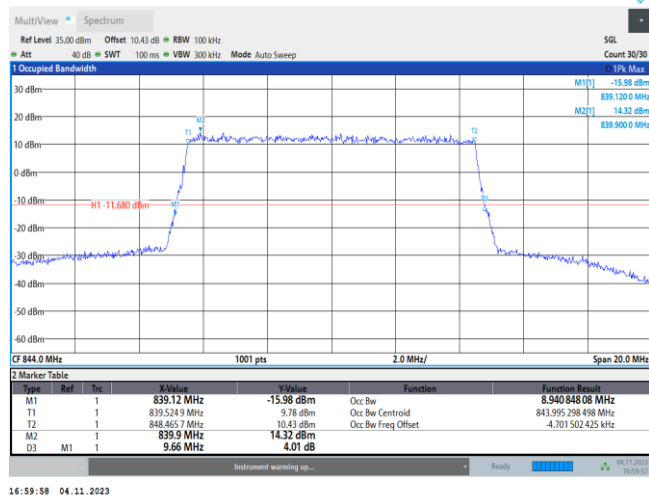
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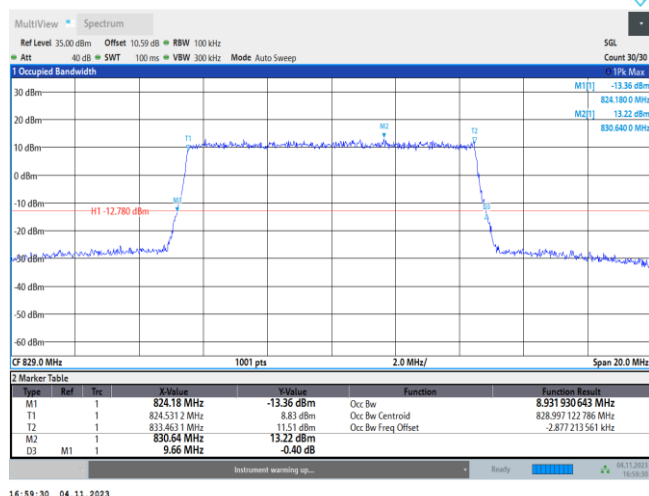
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Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



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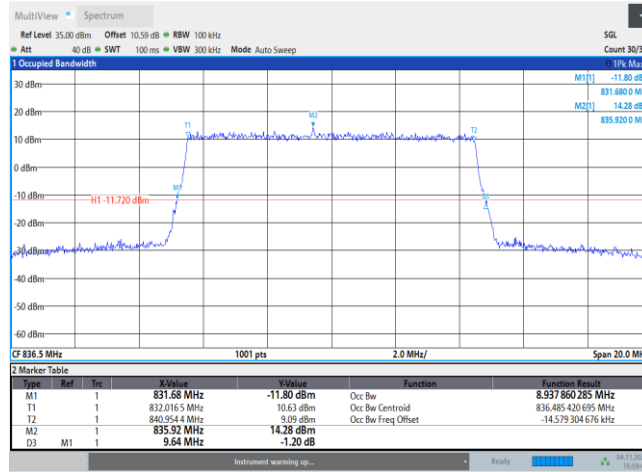
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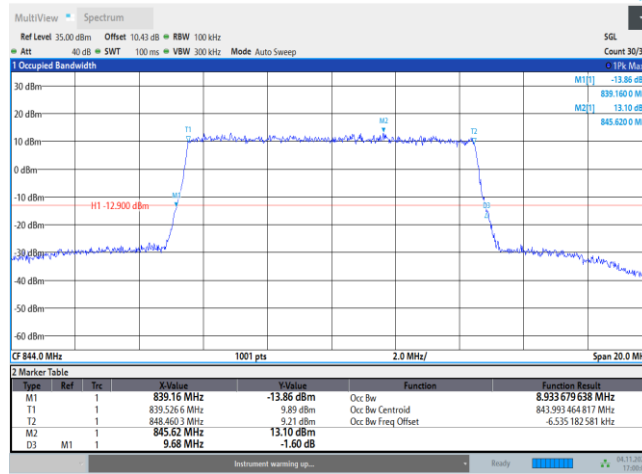


Band5-10MHz-16QAM-20525-50RB#0



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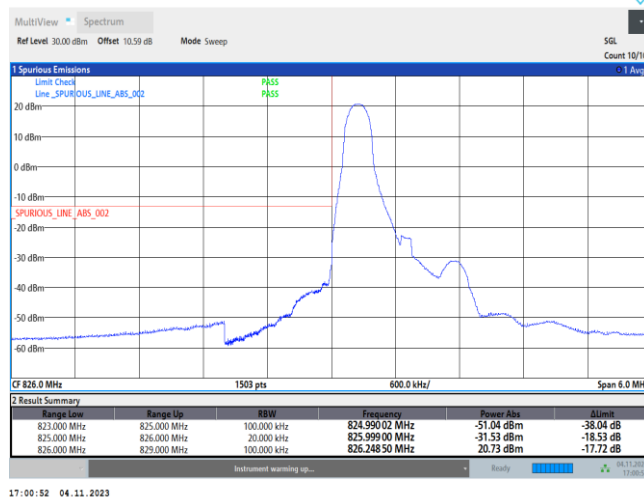
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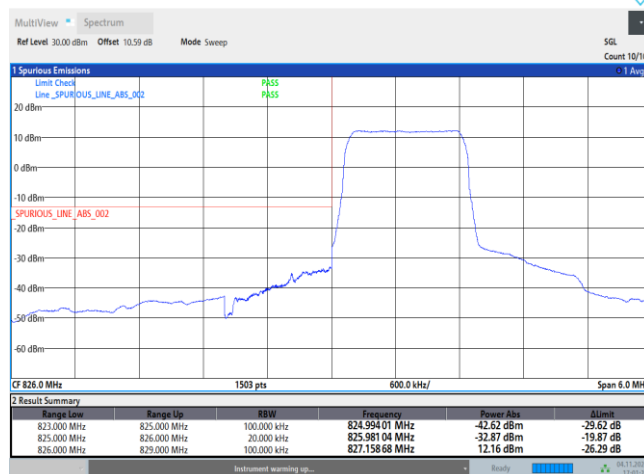
## Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



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Band5-1.4MHz-QPSK-20427-6RB#0



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Band5-1.4MHz-QPSK-20643-1RB#5



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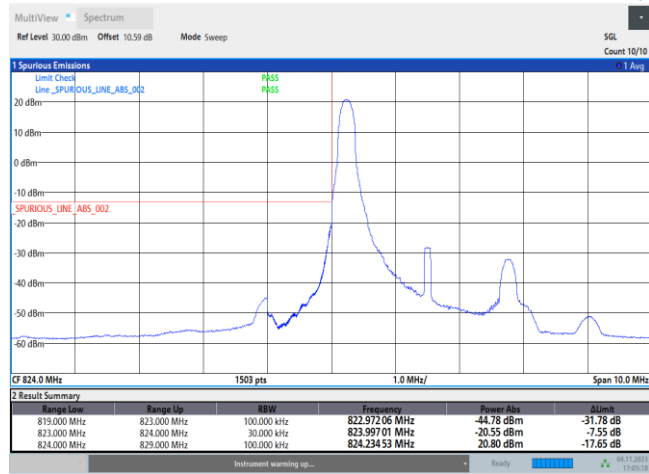
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Page: 28 of 47

Band5-3MHz-QPSK-20415-1RB#0



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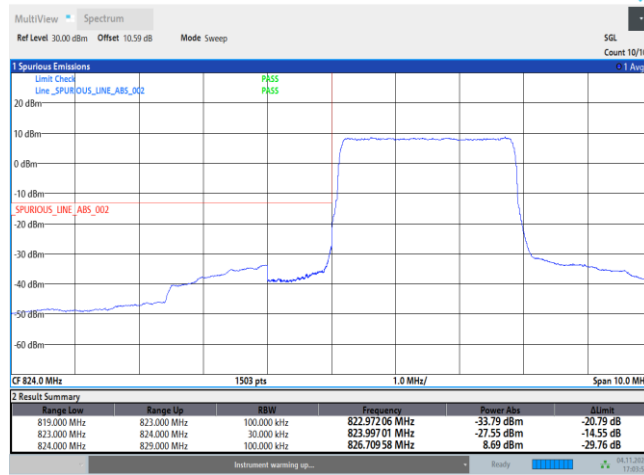
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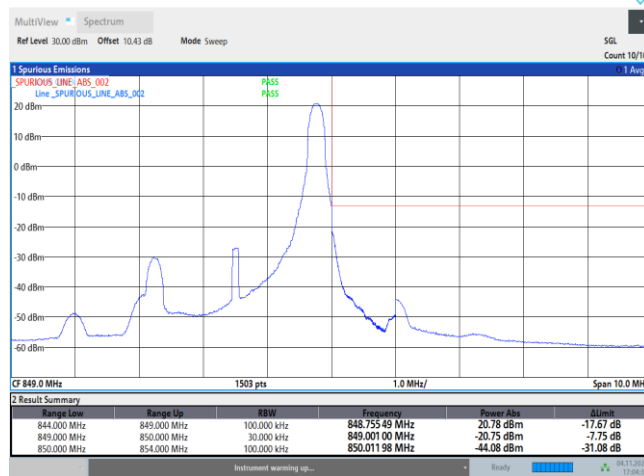
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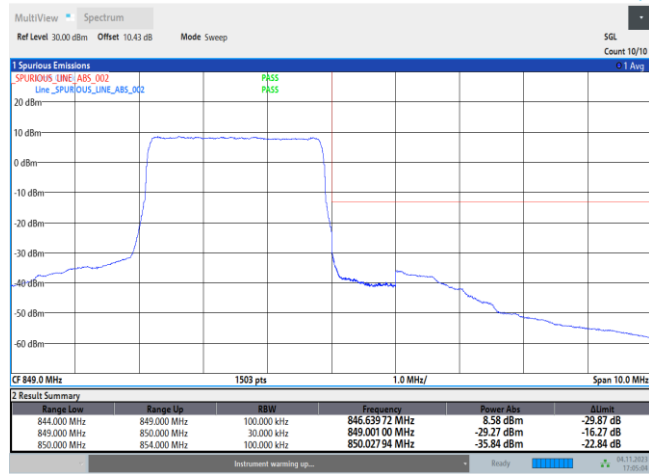
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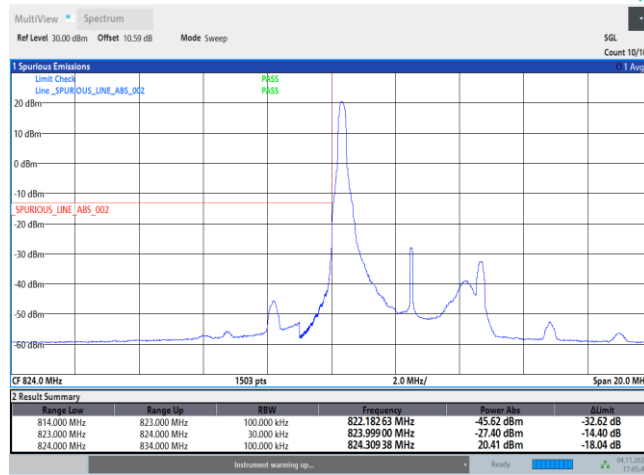
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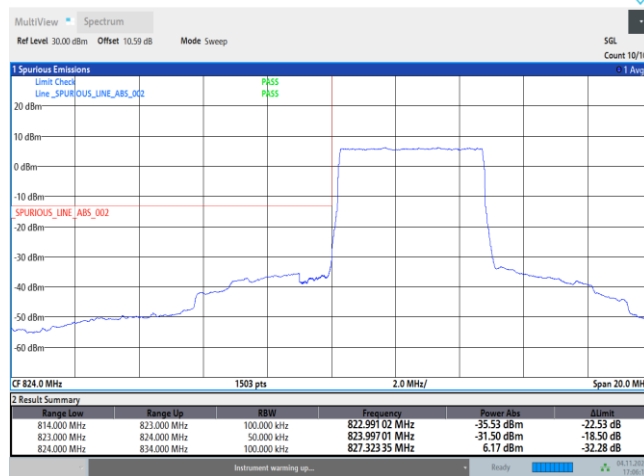
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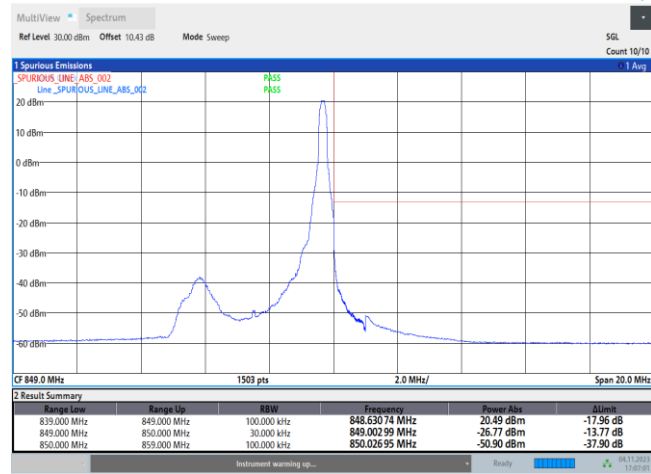
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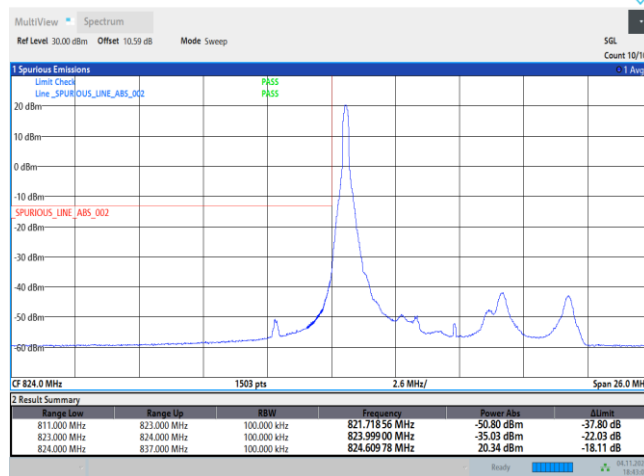


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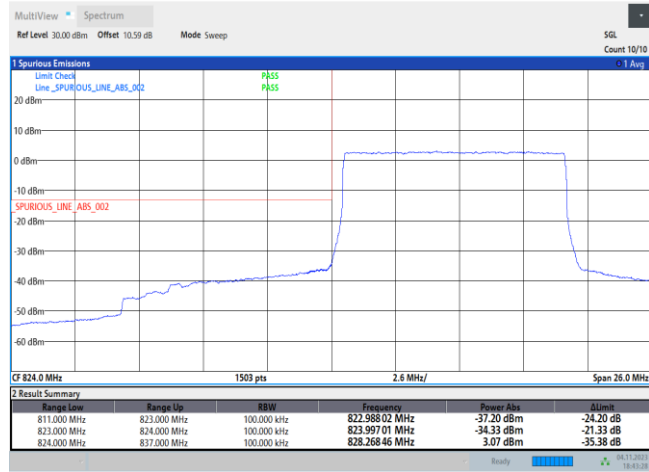
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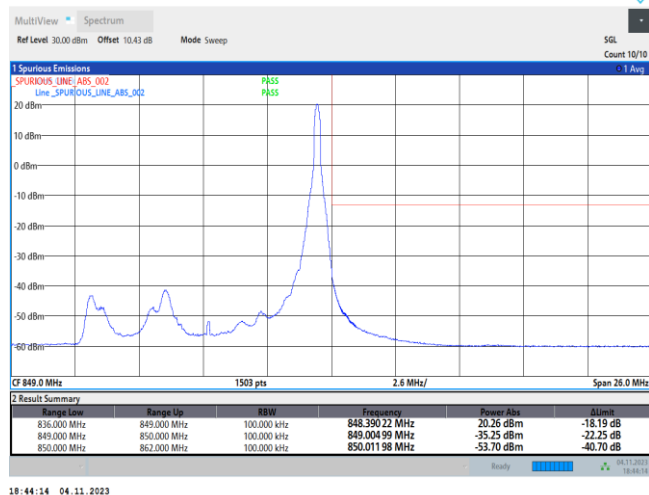
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Band5-10MHz-QPSK-20600-50RB#0



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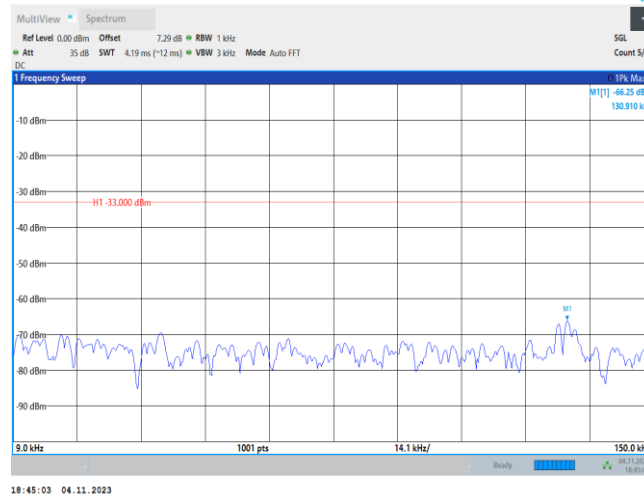
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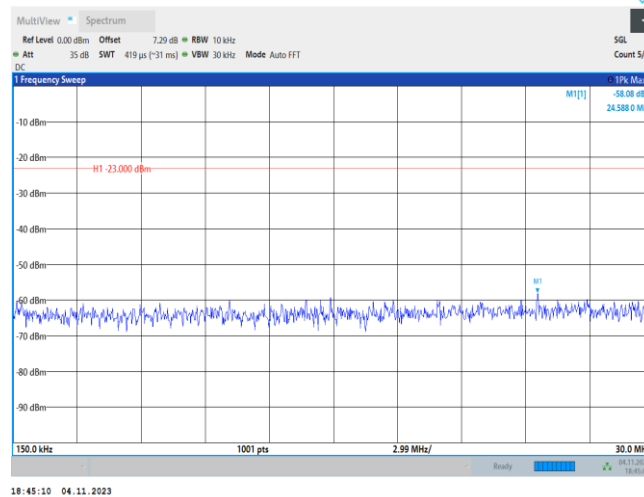
## Conducted Spurious Emission

### Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz

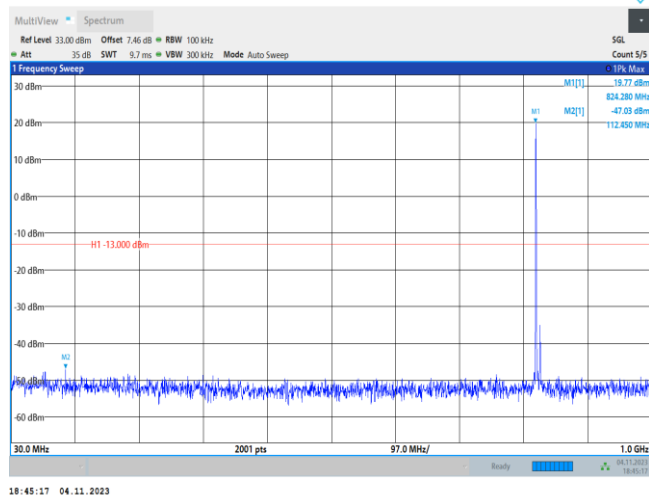


Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz

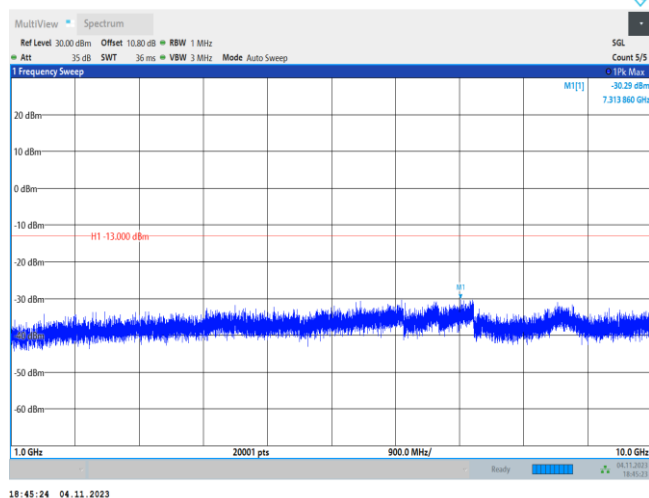


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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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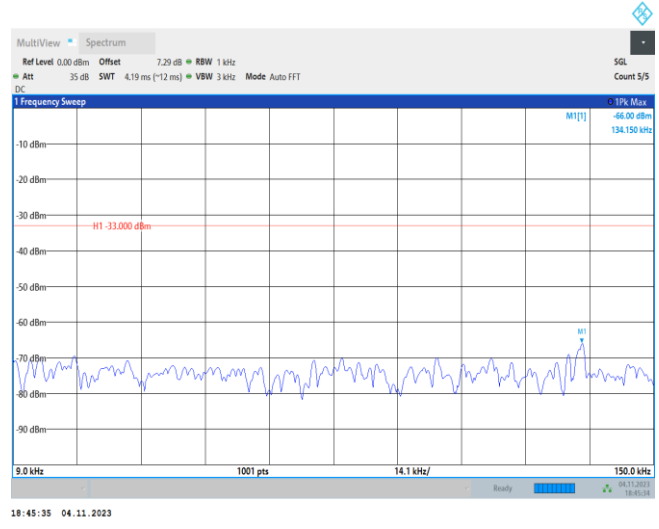
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Rev.: 01

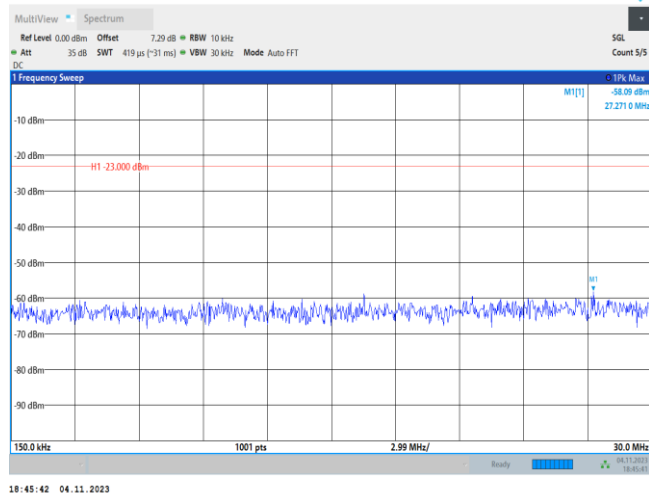
Page: 38 of 47

Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz

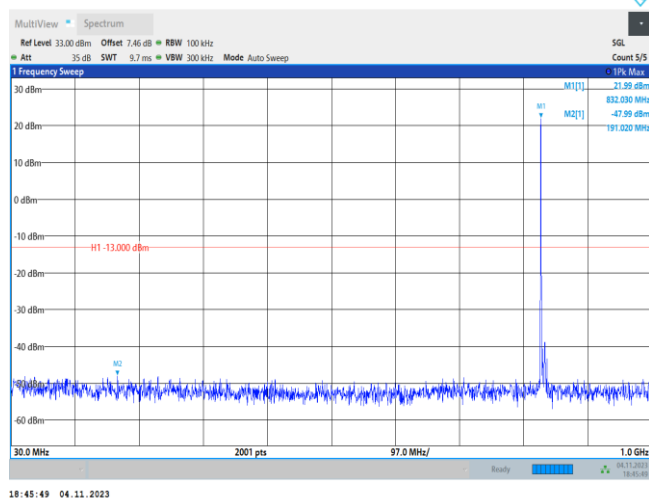


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Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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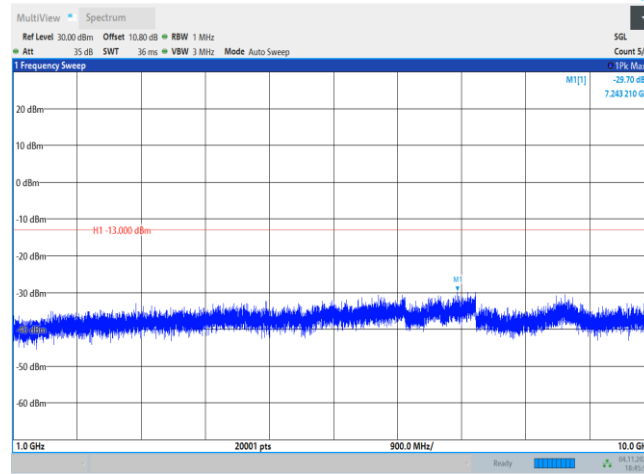
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Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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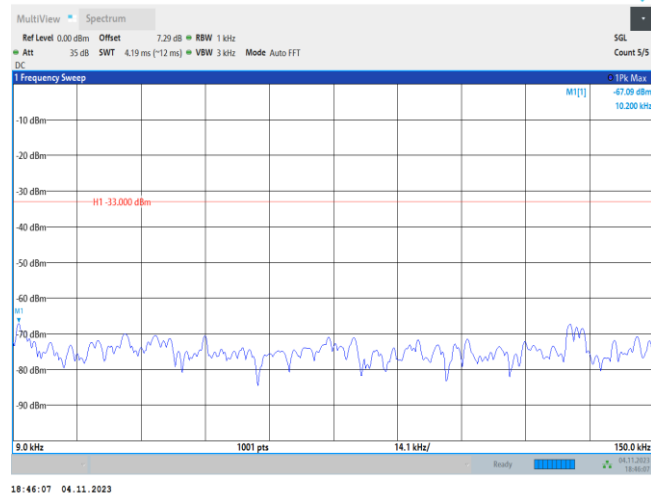
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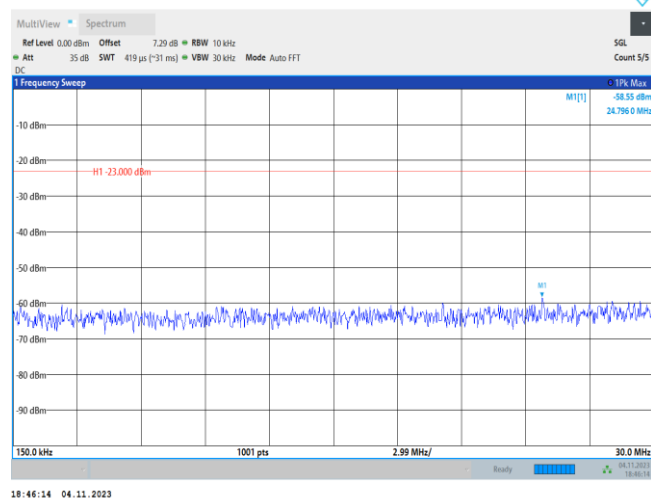
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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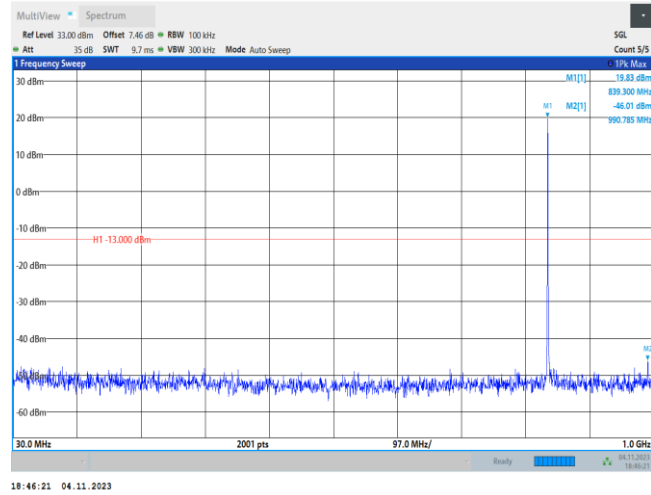
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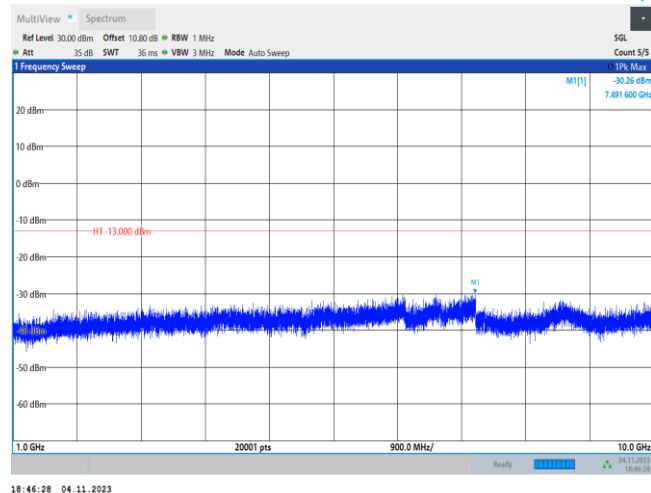
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## Field Strength of Spurious Radiation

Test Band = LTE\_5\_TM1  
 Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649	72.17	-47.52	25.49	-45.12	-13.00	32.12	Horizontal
2	3298.5	57.51	-45.72	28.50	-54.97	-13.00	41.97	Horizontal
3	4123	62.47	-44.03	29.45	-47.37	-13.00	34.37	Horizontal
4	4947.5	61.50	-42.95	31.00	-45.71	-13.00	32.71	Horizontal
5	5772	46.35	-41.14	32.46	-57.59	-13.00	44.59	Horizontal
6	9889	40.93	-35.32	38.51	-51.14	-13.00	38.14	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.5	74.40	-47.52	25.50	-42.88	-13.00	29.88	Vertical
2	2474	61.20	-46.67	27.70	-53.03	-13.00	40.03	Vertical
3	3298.5	61.21	-45.72	28.50	-51.27	-13.00	38.27	Vertical
4	4123	64.95	-44.03	29.45	-44.89	-13.00	31.89	Vertical
5	4947.5	66.09	-42.95	31.00	-41.12	-13.00	28.12	Vertical
6	7421.5	47.40	-38.36	36.74	-49.48	-13.00	36.48	Vertical



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Test Band = LTE\_5\_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	1664	72.87	-47.49	25.39	-44.49	-13.00	31.49	Horizontal
2	2496	54.54	-46.69	27.78	-59.63	-13.00	46.63	Horizontal
3	3328.5	59.41	-45.67	28.56	-52.96	-13.00	39.96	Horizontal
4	4160.5	61.76	-43.93	29.44	-47.99	-13.00	34.99	Horizontal
5	4992.5	59.57	-42.94	31.17	-47.46	-13.00	34.46	Horizontal
6	9908.5	40.96	-35.32	38.61	-51.01	-13.00	38.01	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664	75.54	-47.49	25.39	-41.82	-13.00	28.82	Vertical
2	2496.5	61.51	-46.69	27.79	-52.65	-13.00	39.65	Vertical
3	3328.5	62.26	-45.67	28.56	-50.11	-13.00	37.11	Vertical
4	4160.5	64.49	-43.93	29.44	-45.26	-13.00	32.26	Vertical
5	4992.5	63.23	-42.94	31.17	-43.80	-13.00	30.80	Vertical
6	7489	47.13	-38.38	36.88	-49.63	-13.00	36.63	Vertical



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**Test Band = LTE\_5\_TM1**  
**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679	73.16	-47.47	25.27	-44.30	-13.00	31.30	Horizontal
2	2519	56.01	-46.59	27.80	-58.04	-13.00	45.04	Horizontal
3	3358.5	58.27	-45.61	28.60	-54.00	-13.00	41.00	Horizontal
4	4198	61.12	-43.84	29.59	-48.39	-13.00	35.39	Horizontal
5	5037.5	60.87	-42.84	31.50	-45.73	-13.00	32.73	Horizontal
6	9883	41.07	-35.33	38.46	-51.06	-13.00	38.06	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679	75.78	-47.47	25.27	-41.68	-13.00	28.68	Vertical
2	2518.5	62.87	-46.59	27.80	-51.18	-13.00	38.18	Vertical
3	3358.5	62.86	-45.61	28.60	-49.41	-13.00	36.41	Vertical
4	4198	64.15	-43.84	29.59	-45.36	-13.00	32.36	Vertical
5	5037.5	61.84	-42.84	31.50	-44.76	-13.00	31.76	Vertical
6	7556.5	46.31	-38.61	36.45	-51.11	-13.00	38.11	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)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-4.99	-0.005965	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-5.11	-0.006109	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-4.46	-0.005332	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	2.83	0.003383	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-4.55	-0.005439	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	2.49	0.002977	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	5.39	0.006444	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	2.62	0.003132	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	4.76	0.005690	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	4.88	0.005834	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	3.91	0.004674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.56	-0.003060	±2.5	PASS

---End of Attachment---



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