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Appendix B.6

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data

Test Result ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.57	22.62	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.57	22.62	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.58	22.63	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.65	21.7	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.56	21.61	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.63	22.68	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.43	22.48	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.56	21.61	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.45	21.5	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.51	22.56	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.50	22.55	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.63	21.68	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.85	21.9	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.95	22	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.65	21.7	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.80	20.85	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.89	21.94	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.76	21.81	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.53	21.58	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.56	20.61	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.69	21.74	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.76	21.81	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.63	21.68	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.67	20.72	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.78	20.83	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.88	20.93	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.65	20.7	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	21.70	19.75	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.77	20.82	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.70	20.75	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.59	20.64	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.65	19.7	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	22.70	20.75	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.83	20.88	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.72	20.77	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.68	19.73	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	19.67	17.72	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	19.65	17.7	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	19.57	17.62	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	19.66	17.71	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	19.59	17.64	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	19.63	17.68	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	19.51	17.56	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	19.55	17.6	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	19.77	17.82	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	19.56	17.61	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	19.49	17.54	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	19.61	17.66	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.63	22.68	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.62	22.67	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.55	22.6	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.60	21.65	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	24.04	22.09	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	24.05	22.1	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.54	21.59	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.74	20.79	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.83	20.88	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.88	20.93	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.84	20.89	34.77	PASS



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Band13	10MHz	64QAM	23230	50RB#0	21.63	19.68	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	19.70	17.75	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	19.71	17.76	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	19.63	17.68	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	19.76	17.81	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.28	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	4.82	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.04	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.72	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3.94	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.82	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.18	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.70	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.96	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.78	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.90	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.80	13	PASS
Band13	5MHz	64QAM	23205	1RB#0	5.48	13	PASS
Band13	5MHz	64QAM	23205	25RB#0	6.46	13	PASS
Band13	5MHz	64QAM	23230	1RB#0	5.66	13	PASS
Band13	5MHz	64QAM	23230	25RB#0	6.58	13	PASS
Band13	5MHz	64QAM	23255	1RB#0	5.74	13	PASS
Band13	5MHz	64QAM	23255	25RB#0	6.70	13	PASS
Band13	5MHz	256QAM	23205	1RB#0	6.86	13	PASS
Band13	5MHz	256QAM	23205	25RB#0	6.80	13	PASS
Band13	5MHz	256QAM	23230	1RB#0	7.02	13	PASS
Band13	5MHz	256QAM	23230	25RB#0	6.80	13	PASS
Band13	5MHz	256QAM	23255	1RB#0	6.86	13	PASS
Band13	5MHz	256QAM	23255	25RB#0	6.86	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.58	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.14	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.22	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.00	13	PASS
Band13	10MHz	64QAM	23230	1RB#0	5.20	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.48	13	PASS



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Band13	10MHz	256QAM	23230	1RB#0	6.70	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	6.74	13	PASS



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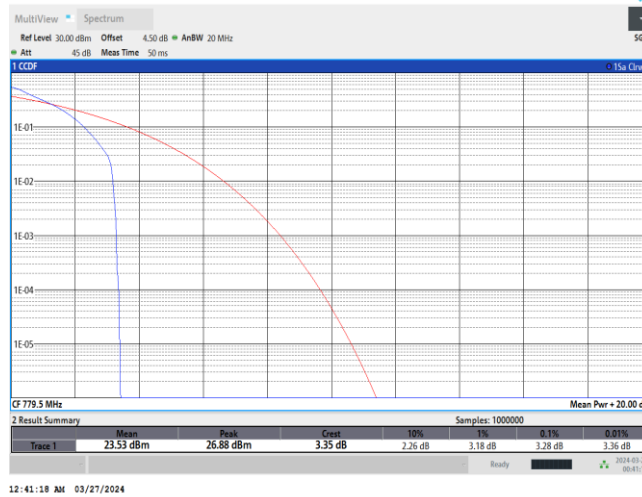
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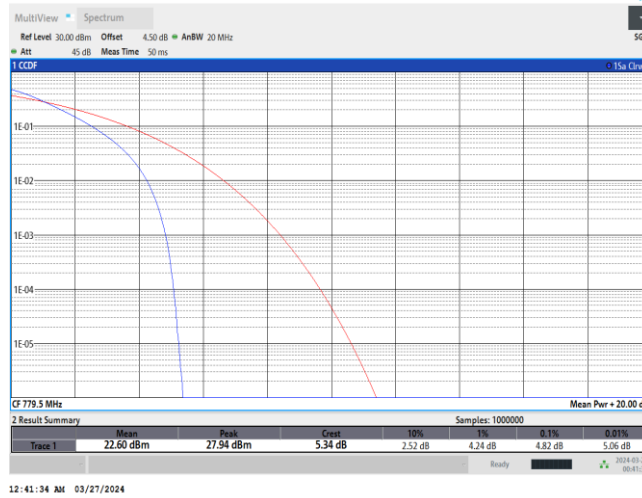
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Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0

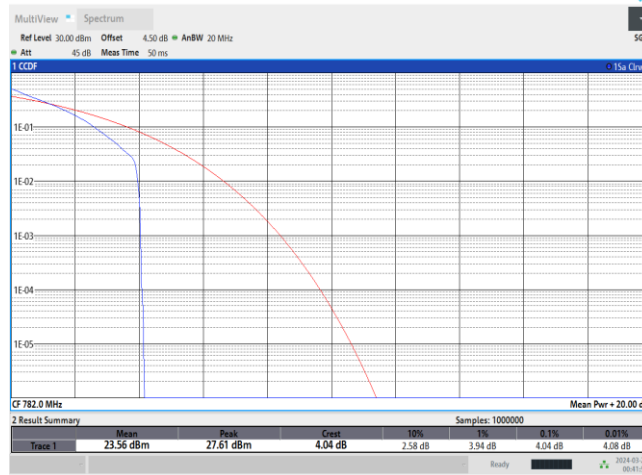


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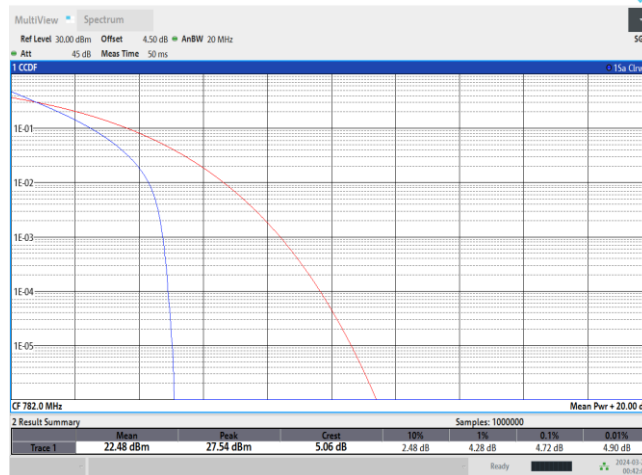
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Band13-5MHz-QPSK-23230-1RB#0



12:41:51 AM 03/27/2024

Band13-5MHz-QPSK-23230-25RB#0



12:42:07 AM 03/27/2024

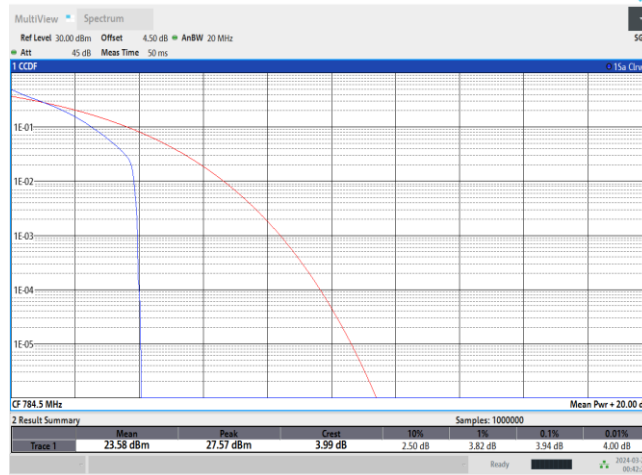


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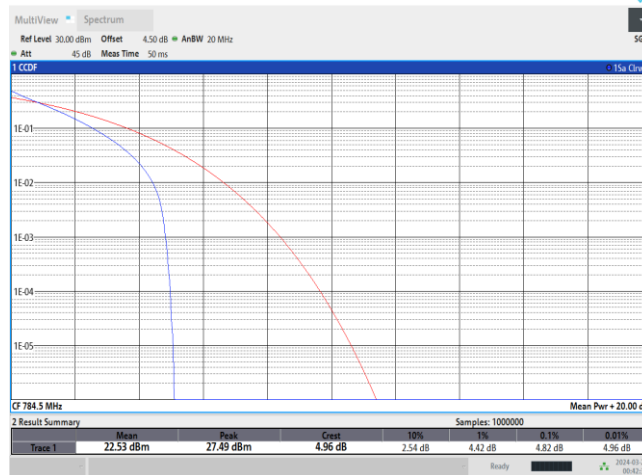
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Band13-5MHz-QPSK-23255-1RB#0



12:42:24 AM 03/27/2024

Band13-5MHz-QPSK-23255-25RB#0



12:42:40 AM 03/27/2024

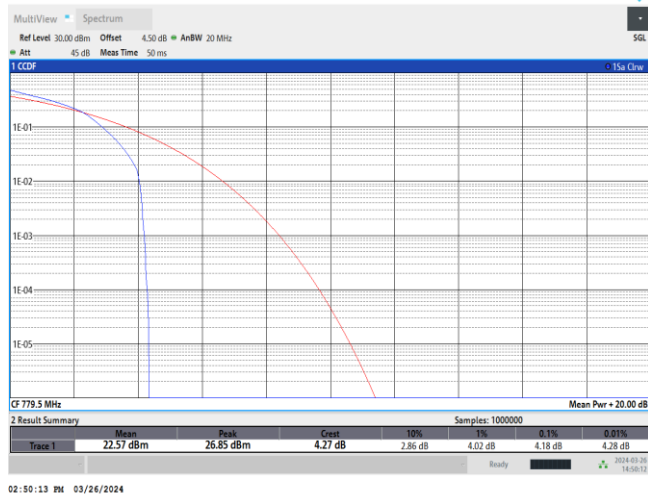


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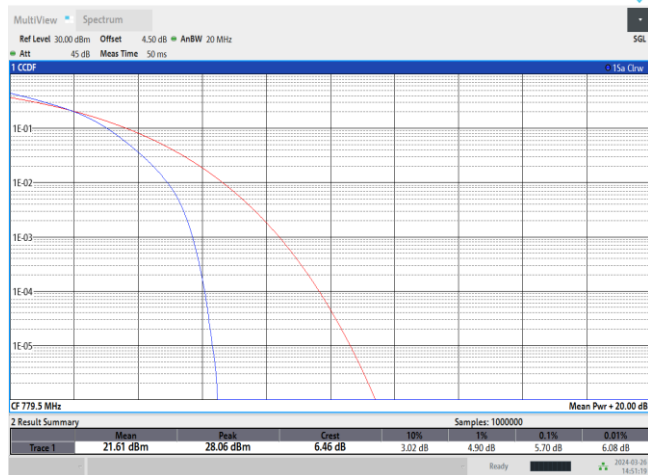
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Band13-5MHz-16QAM-23205-1RB#0



02:50:13 PM 03/26/2024

Band13-5MHz-16QAM-23205-25RB#0



02:51:20 PM 03/26/2024

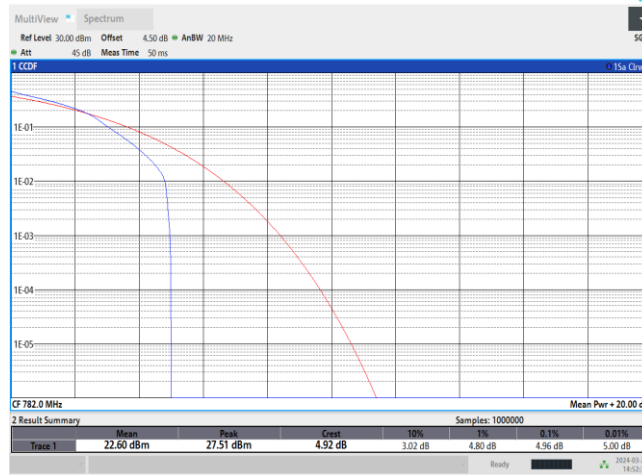


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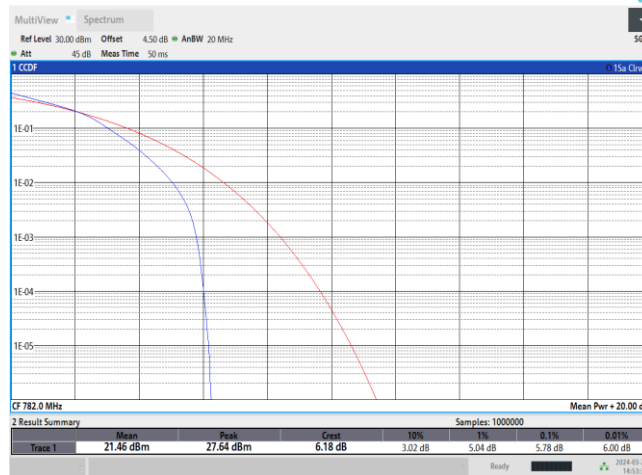
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Band13-5MHz-16QAM-23230-1RB#0



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Band13-5MHz-16QAM-23230-25RB#0



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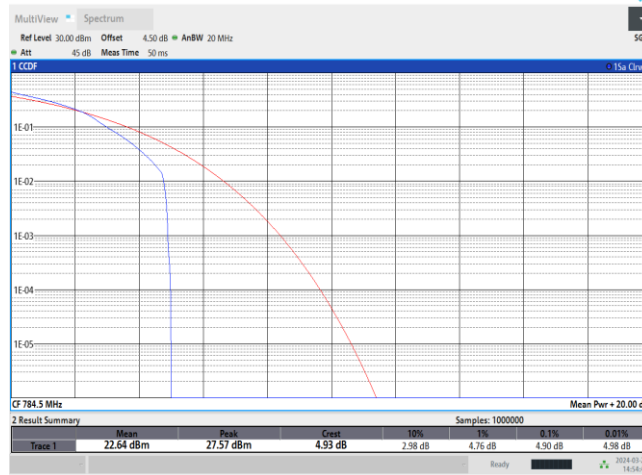
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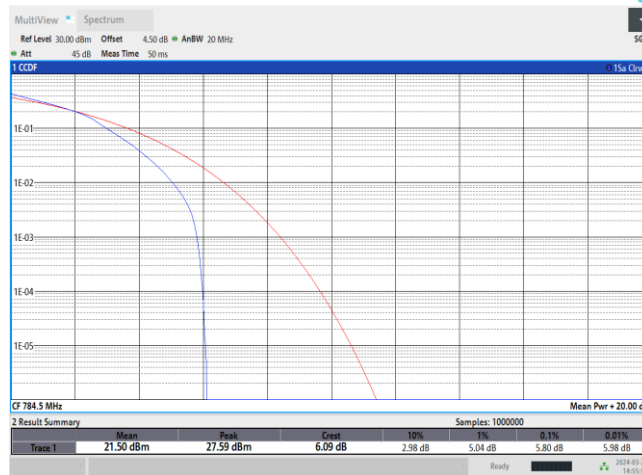
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Band13-5MHz-16QAM-23255-1RB#0



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Band13-5MHz-16QAM-23255-25RB#0



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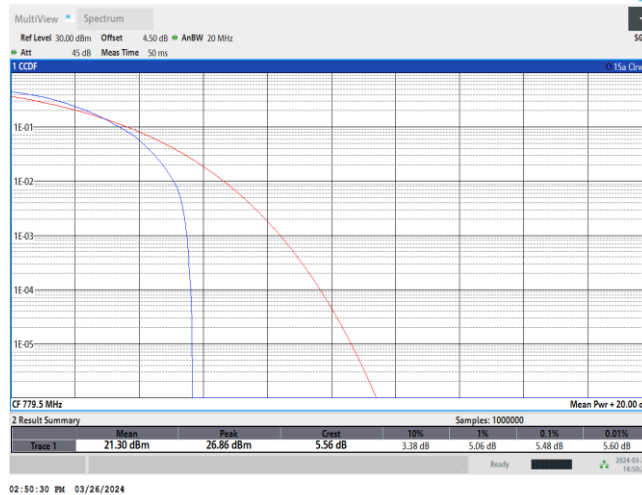


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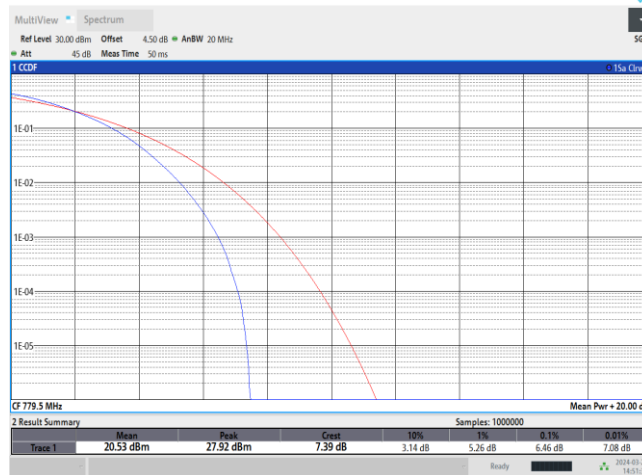
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Band13-5MHz-64QAM-23205-1RB#0



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Band13-5MHz-64QAM-23205-25RB#0



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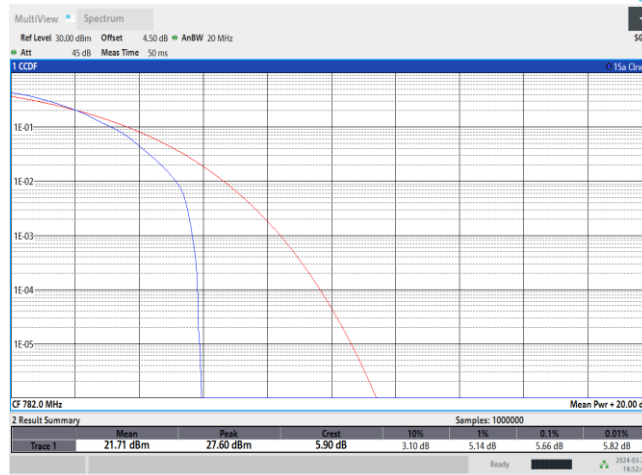


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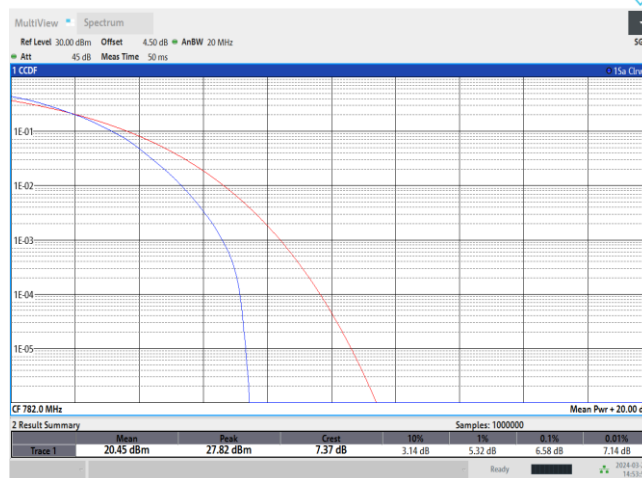
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Band13-5MHz-64QAM-23230-1RB#0



Band13-5MHz-64QAM-23230-25RB#0

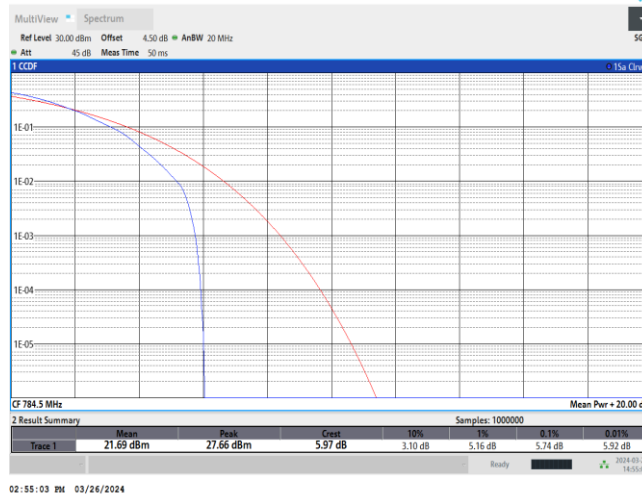


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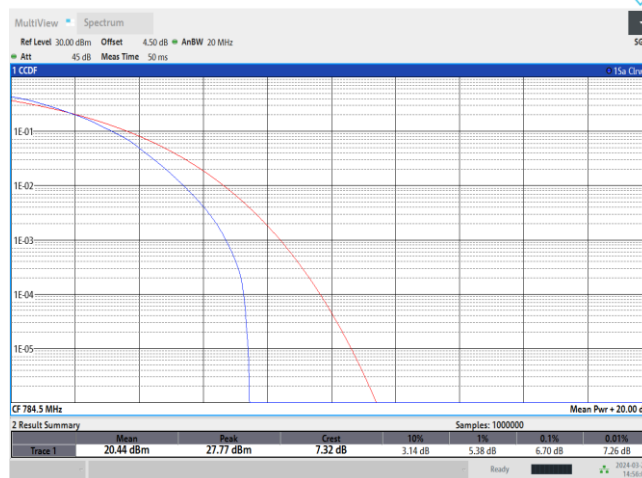
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Band13-5MHz-64QAM-23255-1RB#0



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Band13-5MHz-64QAM-23255-25RB#0



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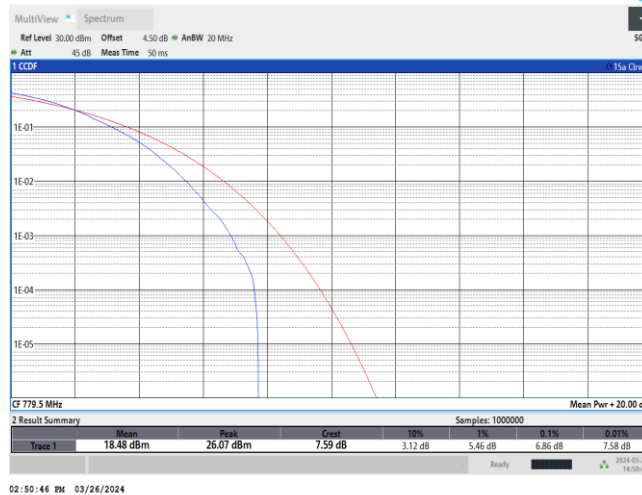


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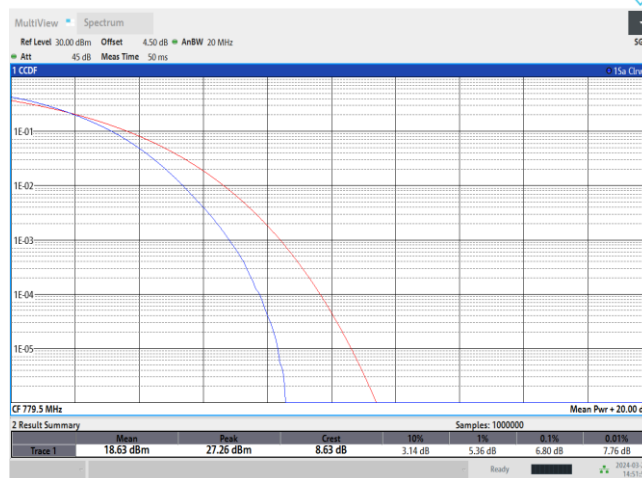
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Band13-5MHz-256QAM-23205-1RB#0



02:50:46 PM 03/26/2024

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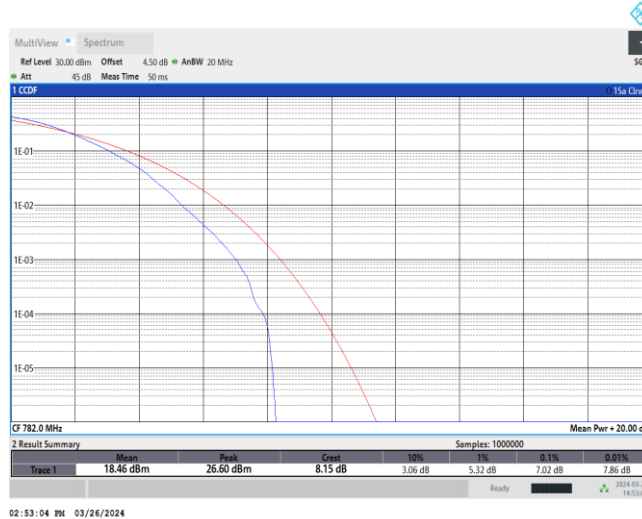


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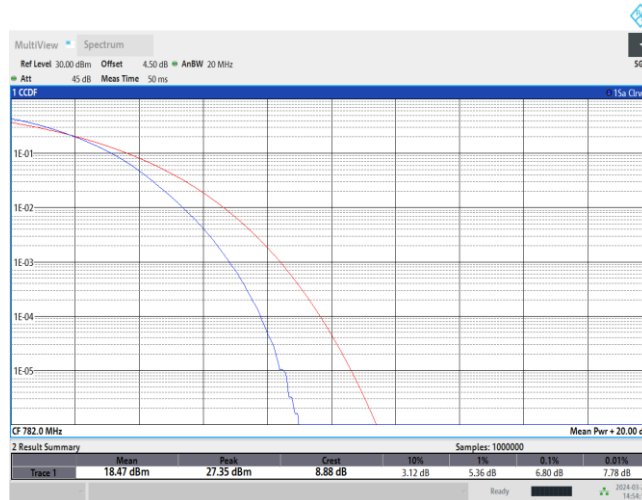
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Band13-5MHz-256QAM-23230-1RB#0



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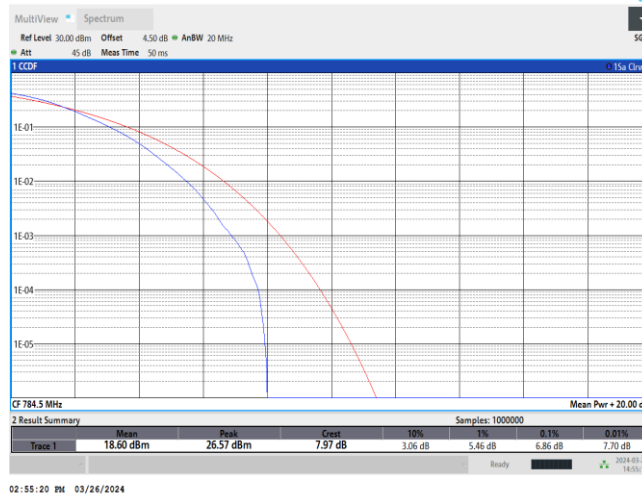
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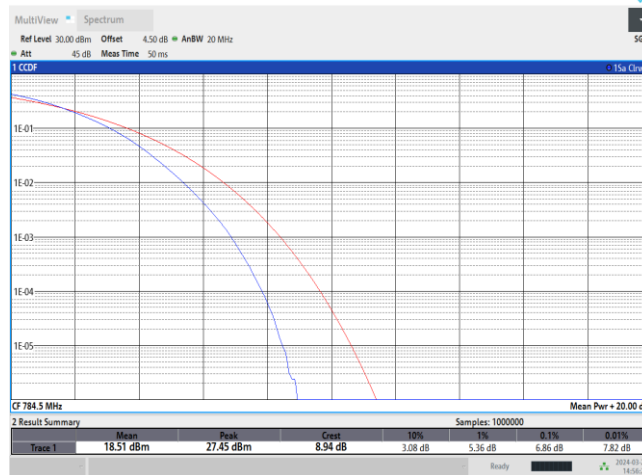
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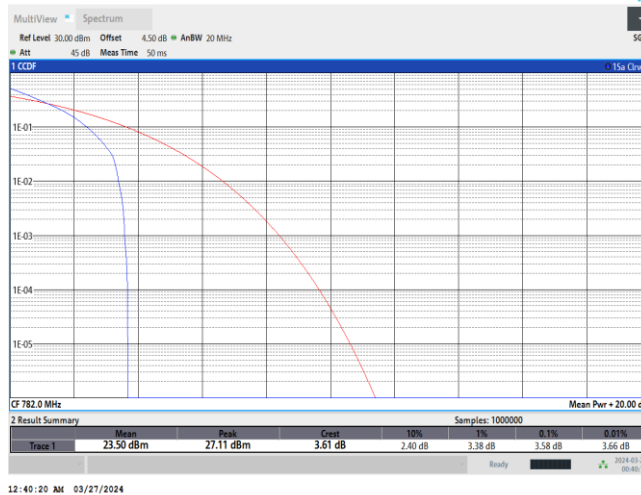


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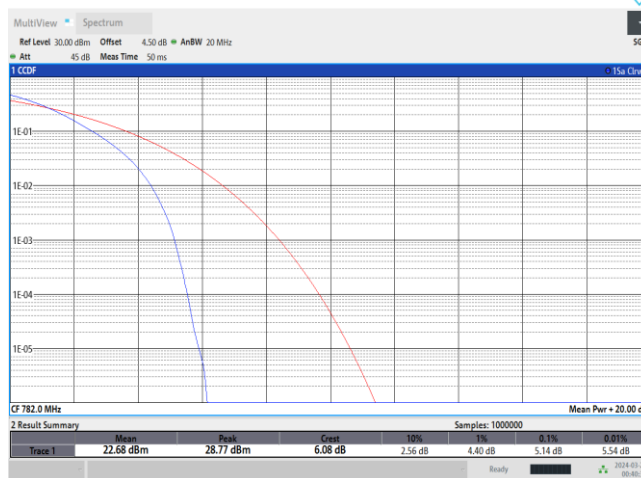
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Band13-10MHz-QPSK-23230-50RB#0



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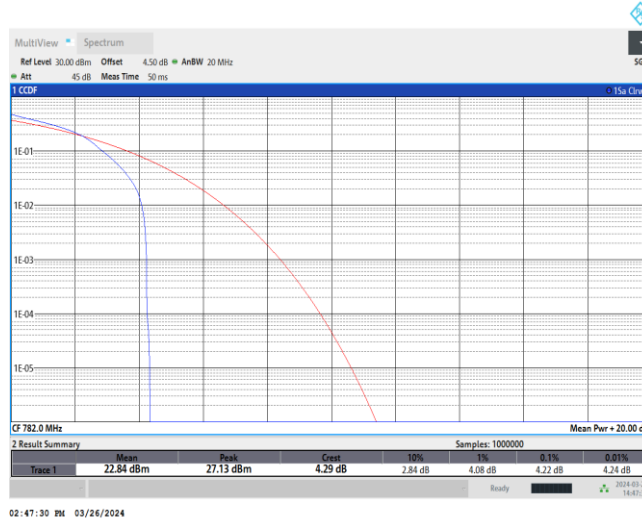


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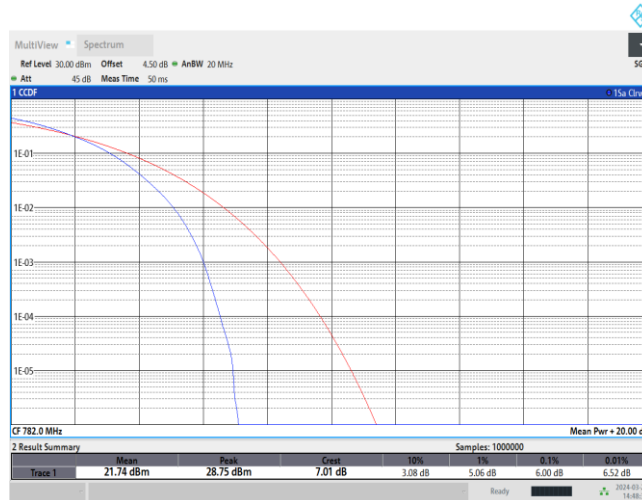
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Band13-10MHz-16QAM-23230-1RB#0



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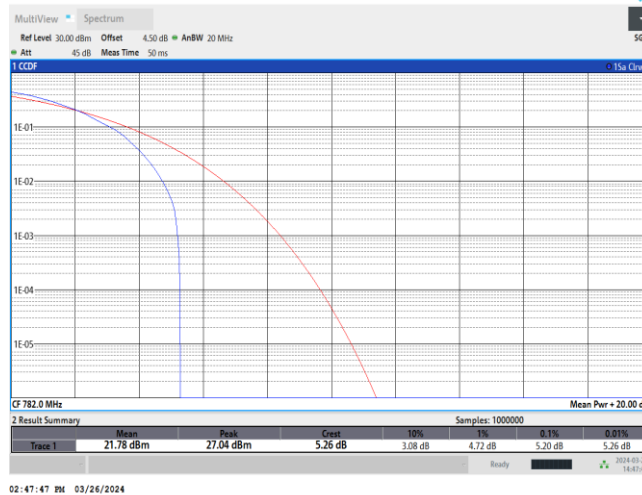


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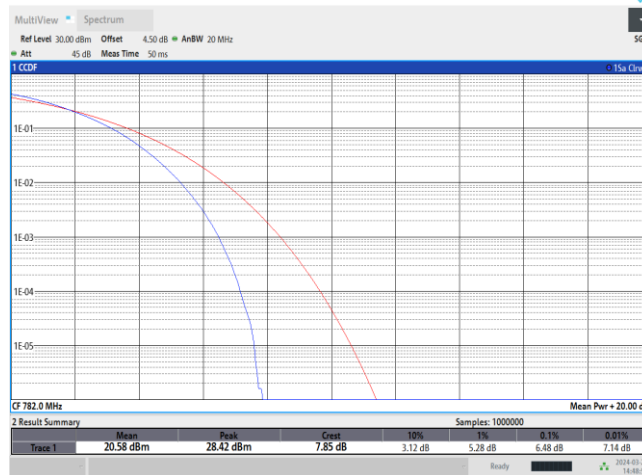
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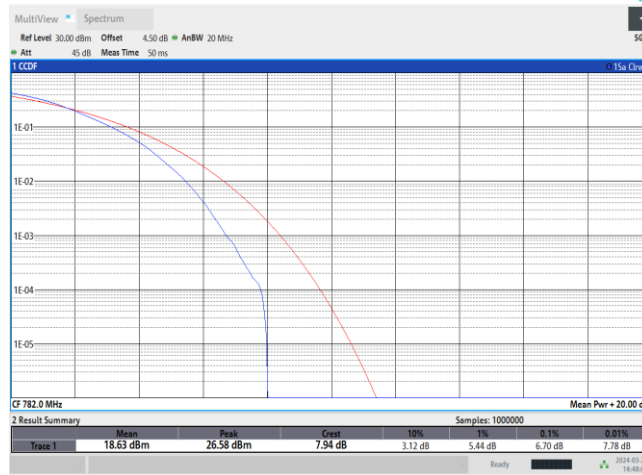


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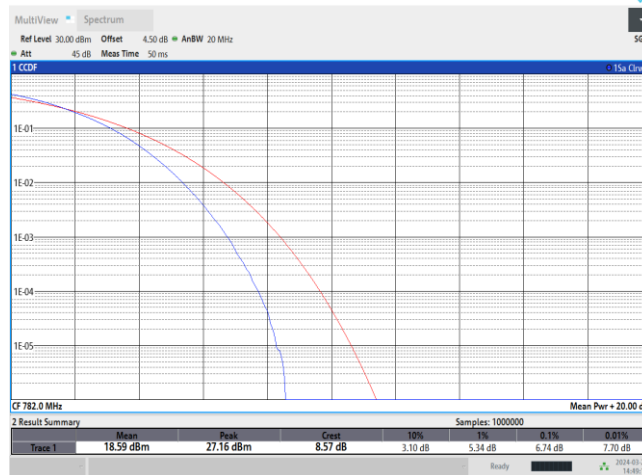
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Band13-10MHz-256QAM-23230-1RB#0



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Band13-10MHz-256QAM-23230-50RB#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
Band13	5MHz	QPSK	23230	25RB#0	4.476	5.01	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	4.96	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.478	5.00	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.477	5.03	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.941	9.86	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.948	9.94	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.942	9.78	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.936	9.76	PASS



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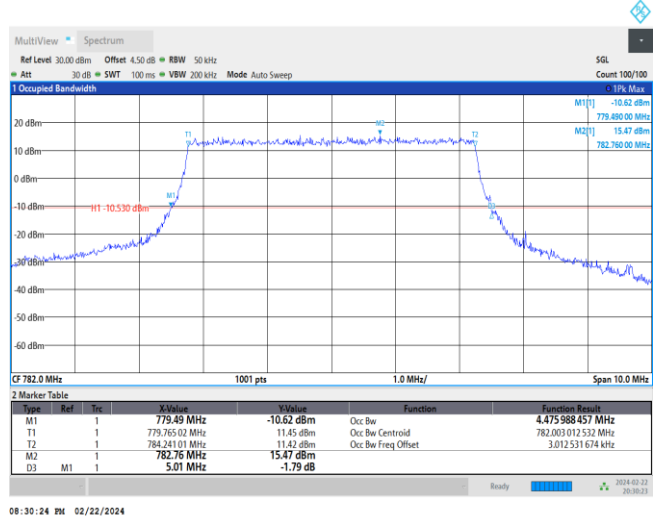
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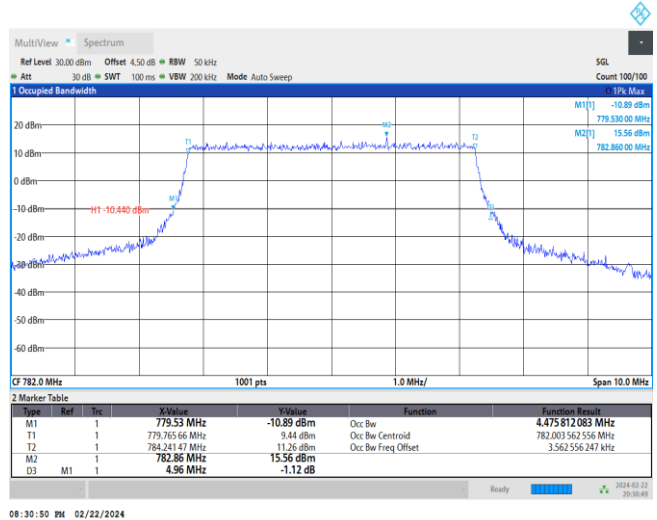
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Test Graphs

Band13-5MHz-QPSK-23230-25RB#0



Band13-5MHz-16QAM-23230-25RB#0

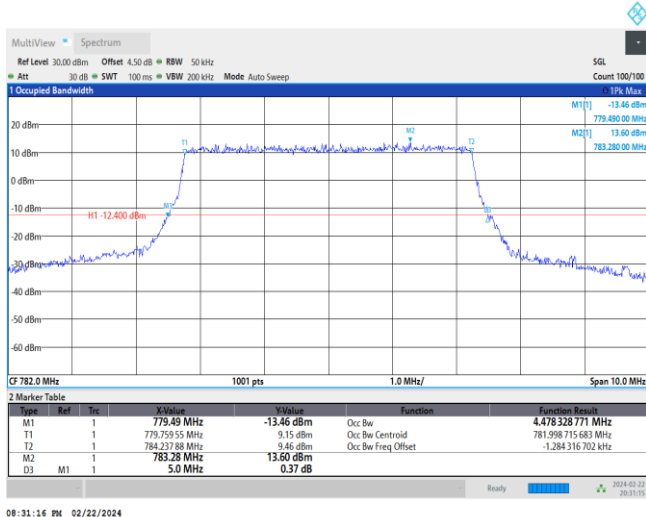


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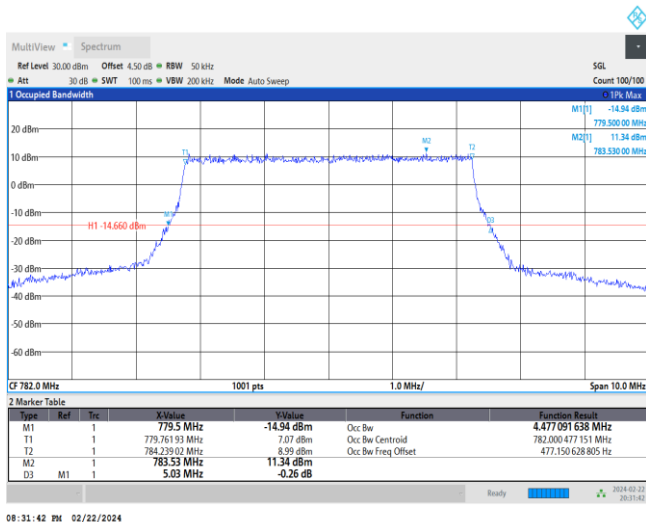
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Band13-5MHz-64QAM-23230-25RB#0



Band13-5MHz-256QAM-23230-25RB#0

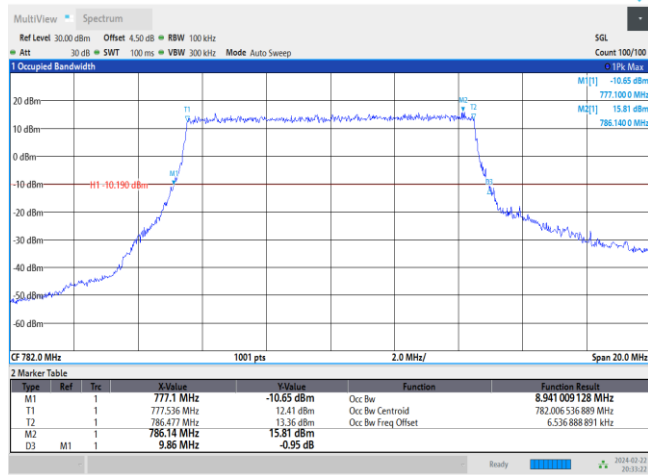


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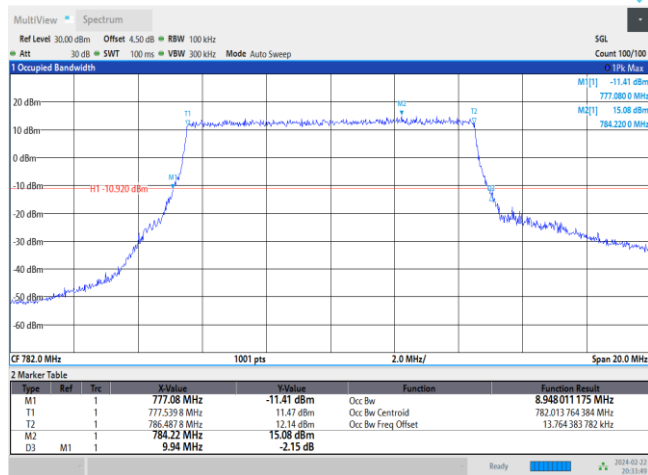
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Band13-10MHz-QPSK-23230-50RB#0



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Band13-10MHz-16QAM-23230-50RB#0



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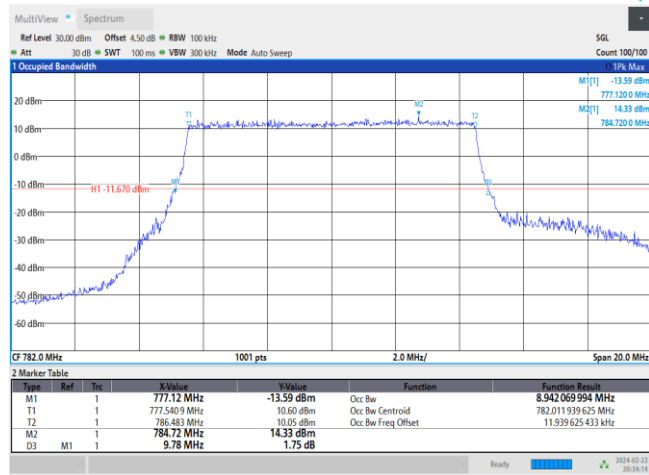


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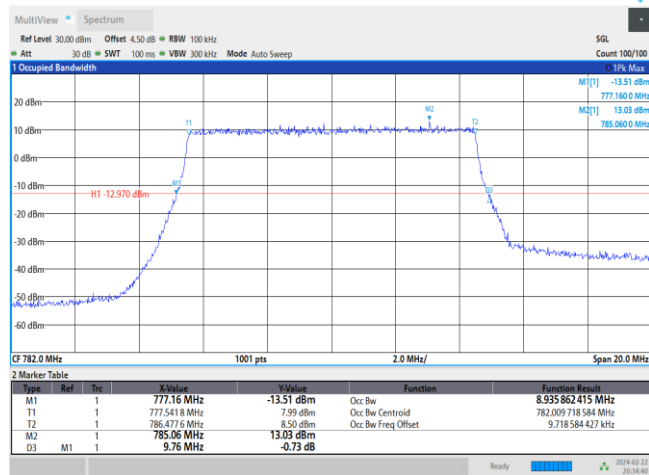
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Band13-10MHz-64QAM-23230-50RB#0



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Band13-10MHz-256QAM-23230-50RB#0



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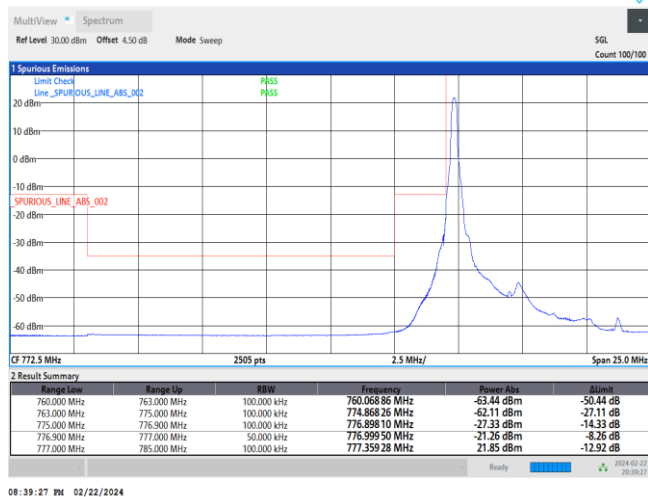
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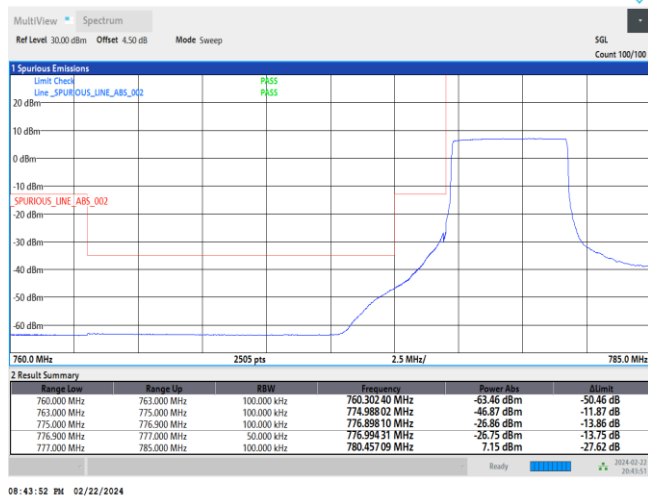
Band Edge

Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0

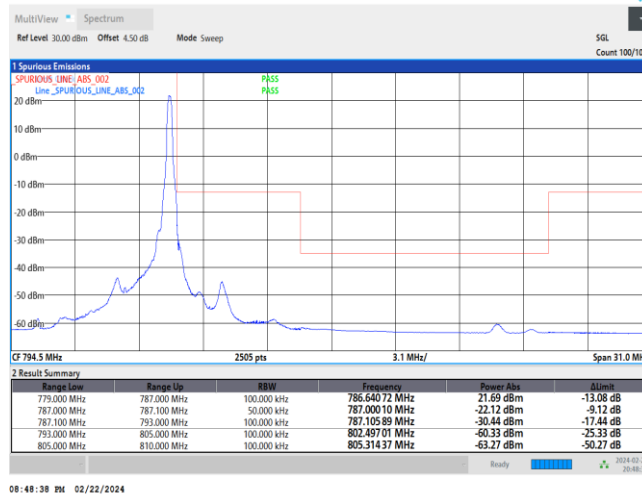


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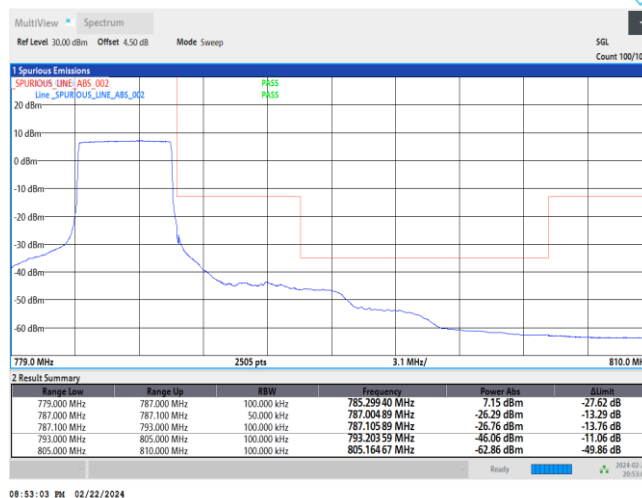
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Band13-5MHz-QPSK-23255-1RB#24



Band13-5MHz-QPSK-23255-25RB#0

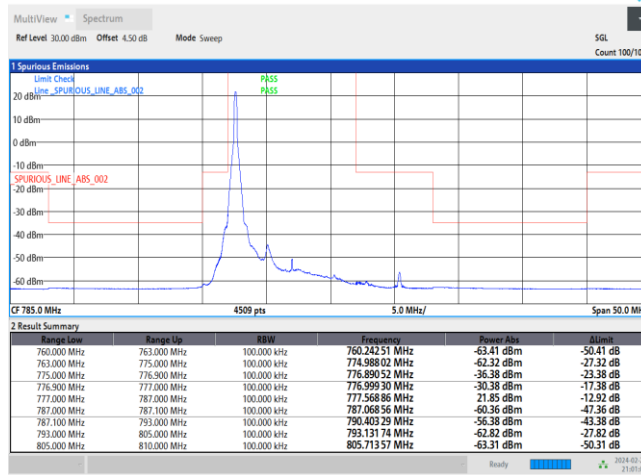


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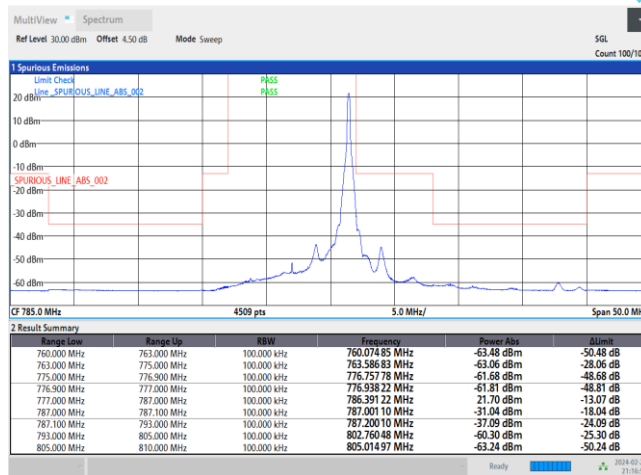
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Band13-10MHz-QPSK-23230-1RB#0



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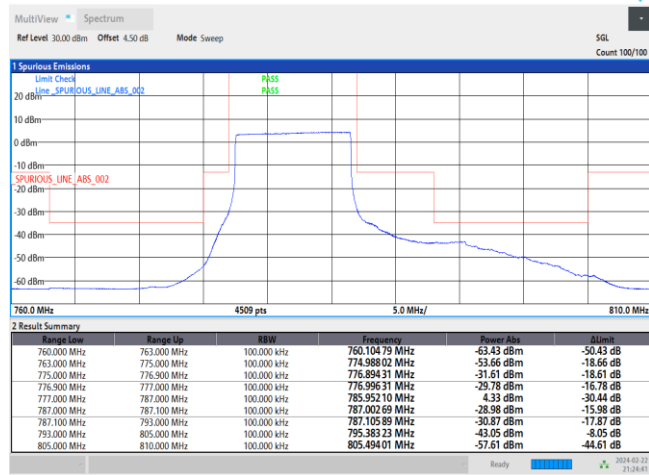


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Band13-10MHz-QPSK-23230-50RB#0



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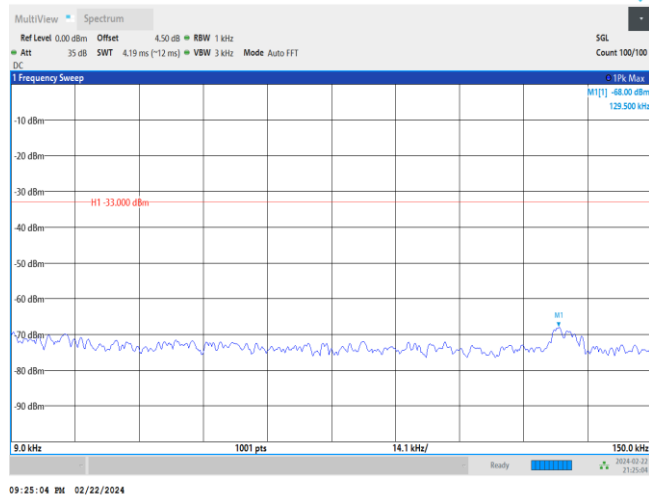
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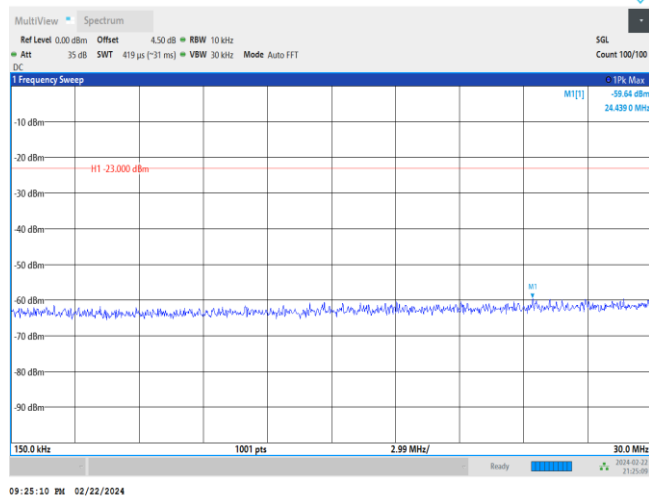
Conducted Spurious Emission

Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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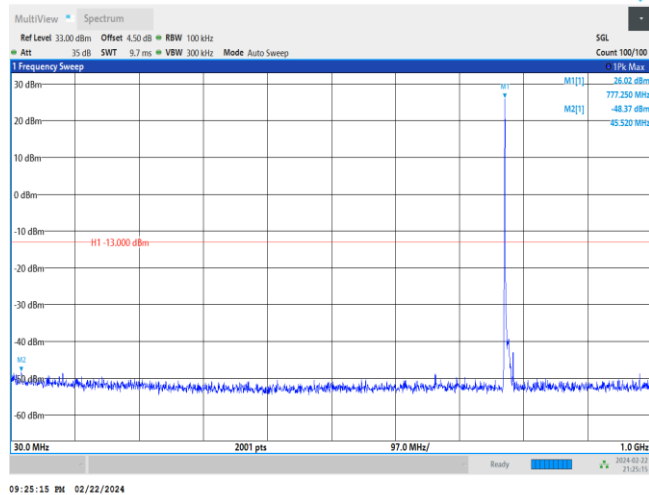
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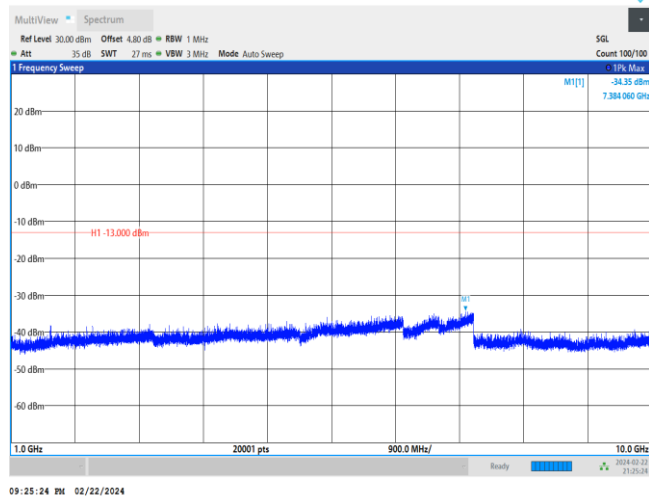
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band13 5MHz

Test Channel = Low

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	53.23	-47.61	24.28	-65.36	-13.00	52.36	Horizontal
2	1594.5	47.81	-47.61	25.00	-70.06	-40.00	30.06	Horizontal
3	2332	58.08	-46.63	27.42	-56.39	-13.00	43.39	Horizontal
4	3512	46.96	-45.34	29.08	-64.56	-13.00	51.56	Horizontal
5	6360.5	45.20	-40.81	33.86	-57.01	-13.00	44.01	Horizontal
6	9113.5	42.50	-35.56	37.03	-51.29	-13.00	38.29	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	51.69	-47.61	24.28	-66.90	-13.00	53.90	Vertical
2	1595.5	47.75	-47.61	25.02	-70.10	-40.00	30.10	Vertical
3	2332	51.28	-46.63	27.42	-63.19	-13.00	50.19	Vertical
4	3845	47.42	-44.83	29.71	-62.96	-13.00	49.96	Vertical
5	5960.5	45.42	-40.92	32.92	-57.84	-13.00	44.84	Vertical
6	9901.5	42.43	-35.30	38.60	-49.53	-13.00	36.53	Vertical



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Test Band = LTE Band13 5MHz

Test Channel = Mid

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1101	49.08	-47.72	24.30	-69.60	-13.00	56.60	Horizontal
2	1559.5	52.81	-47.61	24.37	-65.69	-40.00	25.69	Horizontal
3	2339.5	57.88	-46.63	27.50	-56.51	-13.00	43.51	Horizontal
4	3937.5	46.93	-44.24	29.85	-62.72	-13.00	49.72	Horizontal
5	6577.5	44.73	-40.21	34.67	-56.07	-13.00	43.07	Horizontal
6	9941.5	42.32	-35.45	38.64	-49.75	-13.00	36.75	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1000.5	48.02	-46.57	24.50	-69.31	-13.00	56.31	Vertical
2	1559.5	50.35	-47.61	24.37	-68.15	-40.00	28.15	Vertical
3	2339.5	51.65	-46.63	27.50	-62.74	-13.00	49.74	Vertical
4	3943.5	47.17	-44.21	29.87	-62.43	-13.00	49.43	Vertical
5	6550.5	45.03	-40.30	34.50	-56.03	-13.00	43.03	Vertical
6	9904.5	42.63	-35.31	38.60	-49.34	-13.00	36.34	Vertical



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Test Band = LTE Band13 5MHz

Test Channel = High

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1173.5	48.55	-47.84	24.55	-70.00	-13.00	57.00	Horizontal
2	1564.5	51.45	-47.61	24.46	-66.96	-40.00	26.96	Horizontal
3	2347	59.52	-46.63	27.57	-54.80	-13.00	41.80	Horizontal
4	3910.5	47.20	-44.36	29.74	-62.68	-13.00	49.68	Horizontal
5	7415.5	44.28	-38.35	36.73	-52.60	-13.00	39.60	Horizontal
6	9513.5	42.43	-35.80	37.80	-50.83	-13.00	37.83	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1565	49.89	-47.61	24.47	-68.51	-40.00	28.51	Vertical
2	2347	51.67	-46.63	27.57	-62.65	-13.00	49.65	Vertical
3	3456	46.98	-45.49	28.92	-64.85	-13.00	51.85	Vertical
4	5168	45.93	-42.55	31.84	-60.04	-13.00	47.04	Vertical
5	7476	43.92	-38.37	36.85	-52.86	-13.00	39.86	Vertical
6	9914.5	42.35	-35.35	38.61	-49.65	-13.00	36.65	Vertical



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Test Band = LTE Band13 10MHz

Test Channel = Mid

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	53.20	-47.61	24.29	-65.38	-13.00	52.38	Horizontal
2	1588.5	47.87	-47.61	24.89	-70.11	-40.00	30.11	Horizontal
3	2333	58.66	-46.63	27.43	-55.80	-13.00	42.80	Horizontal
4	3562	47.12	-44.85	28.98	-64.01	-13.00	51.01	Horizontal
5	5701	45.71	-41.35	32.50	-58.40	-13.00	45.40	Horizontal
6	9588.5	42.22	-35.86	37.80	-51.10	-13.00	38.10	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	51.64	-47.61	24.29	-66.94	-13.00	53.94	Vertical
2	1598	47.73	-47.61	25.06	-70.08	-40.00	30.08	Vertical
3	2333	51.39	-46.63	27.43	-63.07	-13.00	50.07	Vertical
4	3645	47.08	-44.48	29.26	-63.40	-13.00	50.40	Vertical
5	7425	44.41	-38.36	36.75	-52.46	-13.00	39.46	Vertical
6	9937	42.18	-35.43	38.64	-49.87	-13.00	36.87	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

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.00	0.001279	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.80	-0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	1.00	0.001279	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	0.70	0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	1.00	0.001279	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.80	-0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	0.50	0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.10	0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.20	0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	1.50	0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	0.40	0.000512	PASS

---End of Attachment---



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 Wireless Laboratories

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