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Appendix B.1

LTE Band 14



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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
Band14	5MHz	QPSK	23305	1RB#0	23.03	23.07	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.06	23.10	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.08	23.12	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.23	22.27	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.82	22.86	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.98	23.02	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.17	23.21	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.05	22.09	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.96	23.00	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.21	23.25	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.92	22.96	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.23	22.27	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.03	22.07	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.21	22.25	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.07	22.11	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.02	21.06	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.30	22.34	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.34	22.38	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.06	22.10	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.04	21.08	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.29	22.33	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.28	22.32	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.17	22.21	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.28	21.32	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	20.67	20.71	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	20.65	20.69	34.77	PASS



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Band14	5MHz	64QAM	23305	1RB#24	20.70	20.74	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	20.22	20.26	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	20.62	20.66	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	20.86	20.90	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	20.80	20.84	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.15	20.19	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	20.80	20.84	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	20.77	20.81	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	20.76	20.80	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.20	20.24	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.13	18.17	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.07	18.11	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	18.16	18.20	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	18.03	18.07	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	18.13	18.17	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.27	18.31	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.06	18.10	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.24	18.28	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.00	18.04	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.26	18.30	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.15	18.19	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.23	18.27	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.23	23.27	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.11	23.15	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.07	23.11	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.08	22.12	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.15	22.19	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.36	22.40	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.27	22.31	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.21	21.25	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	20.90	20.94	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	20.74	20.78	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	20.76	20.80	34.77	PASS



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Band14	10MHz	64QAM	23330	50RB#0	20.15	20.19	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	18.12	18.16	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	18.34	18.38	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.17	18.21	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	18.29	18.33	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
Band14	10MHz	QPSK	23330	50RB#0	5.26	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.08	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.56	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.60	13	PASS



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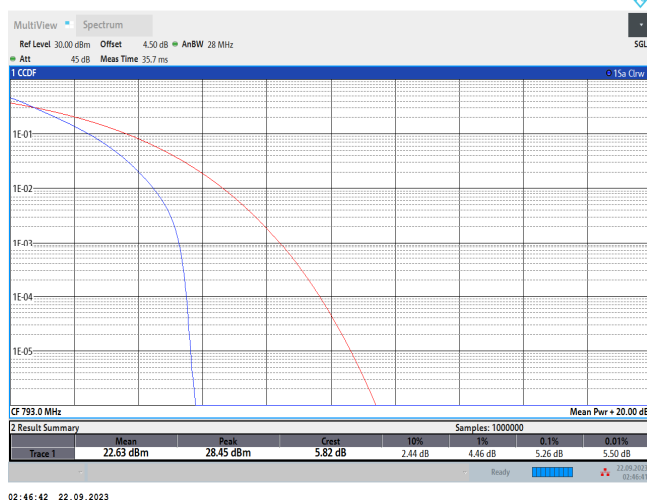
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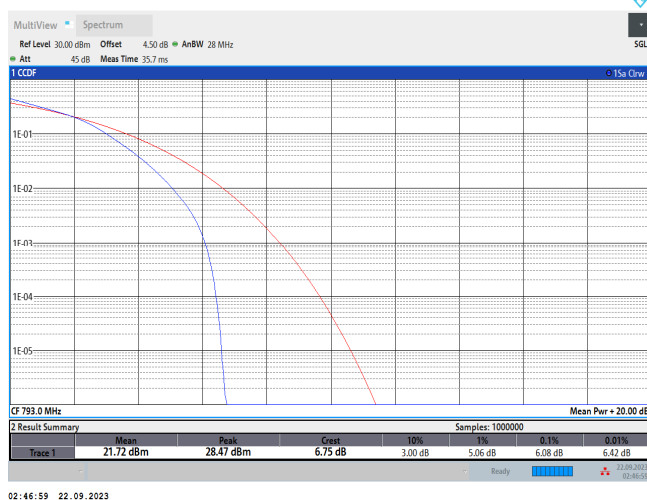
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Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0



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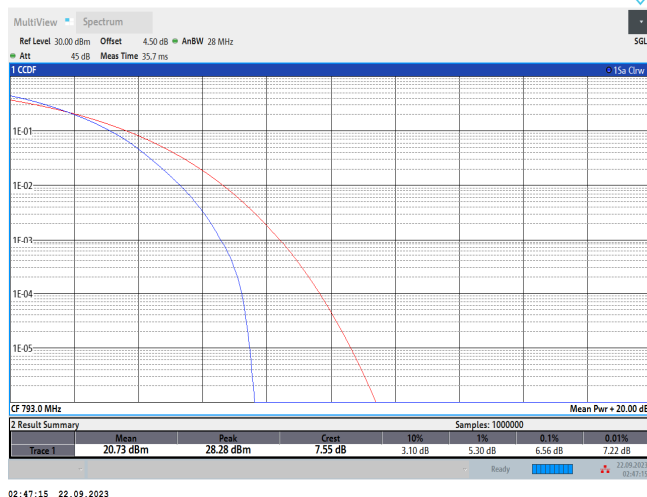
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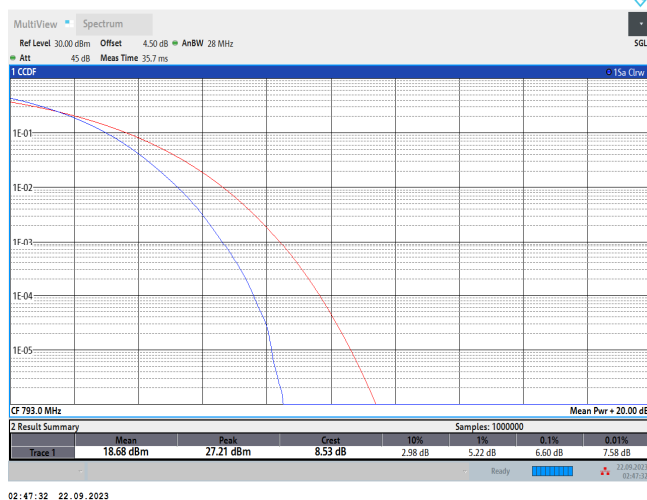
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Band14-10MHz-64QAM-23330-50RB#0



Band14-10MHz-256QAM-23330-50RB#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
Band14	5MHz	QPSK	23330	25RB#0	4.476	5.03	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.477	5.03	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.482	5.05	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.473	5.02	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.913	9.83	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.94	9.83	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.925	9.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.934	9.83	PASS



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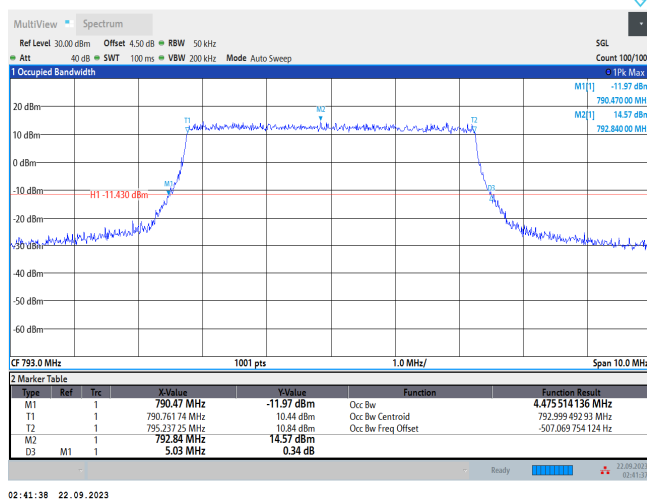
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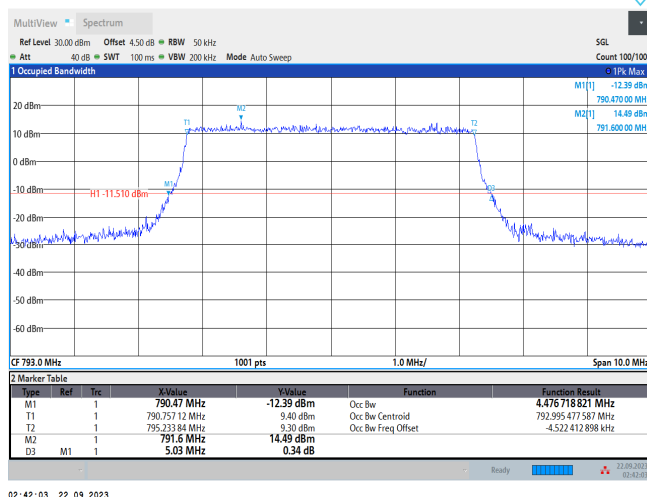
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Test Graphs

Band14-5MHz-QPSK-23330-25RB#0



Band14-5MHz-16QAM-23330-25RB#0



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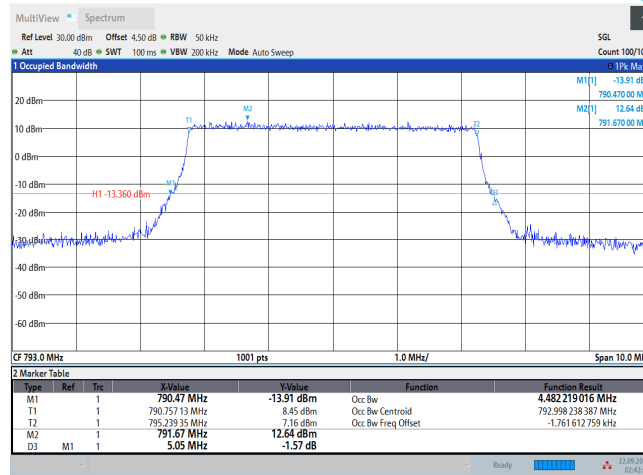
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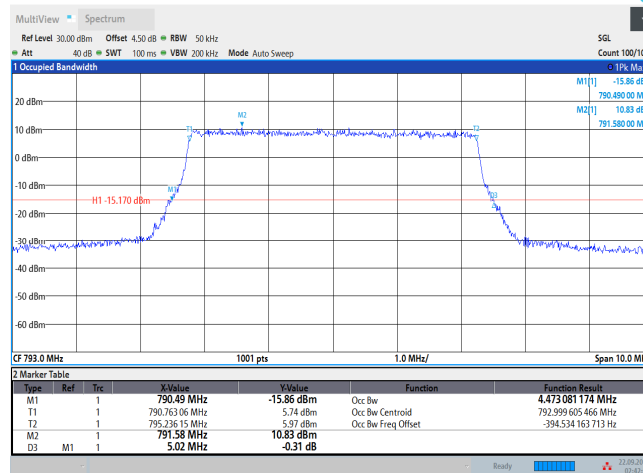
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Band14-5MHz-64QAM-23330-25RB#0



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Band14-5MHz-256QAM-23330-25RB#0



02:42:55 22.09.2023



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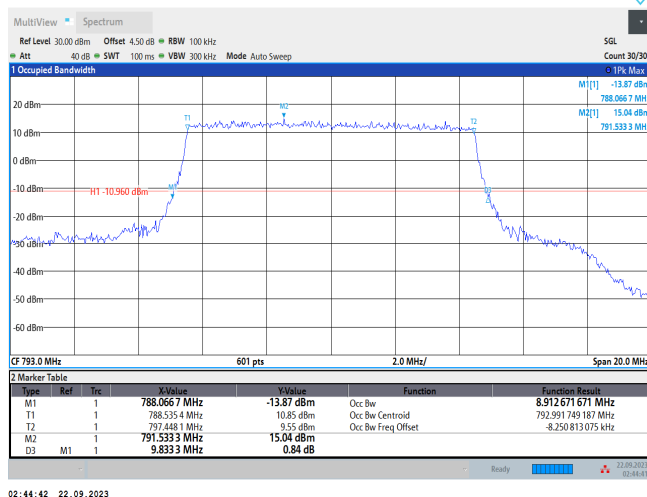
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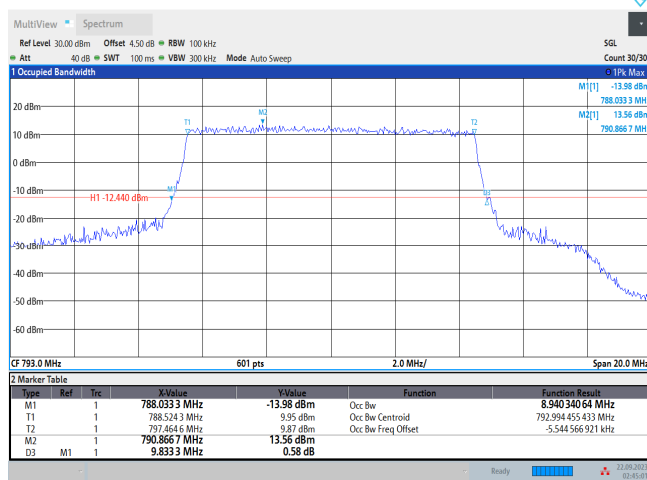
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02:44:42 22.09.2023

Band14-10MHz-16QAM-23330-50RB#0



02:45:01 22.09.2023



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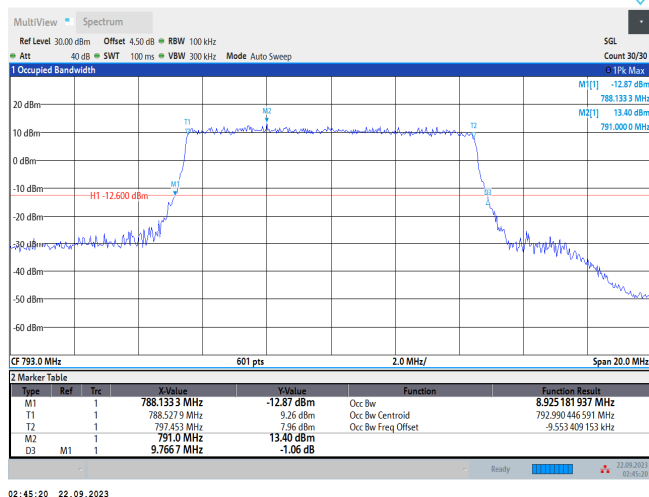
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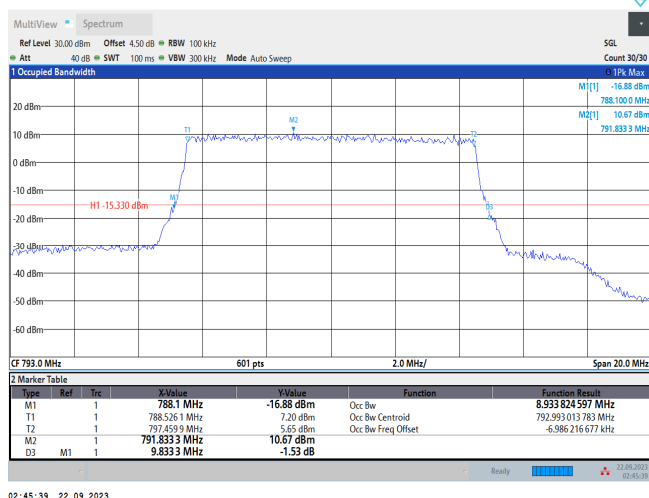
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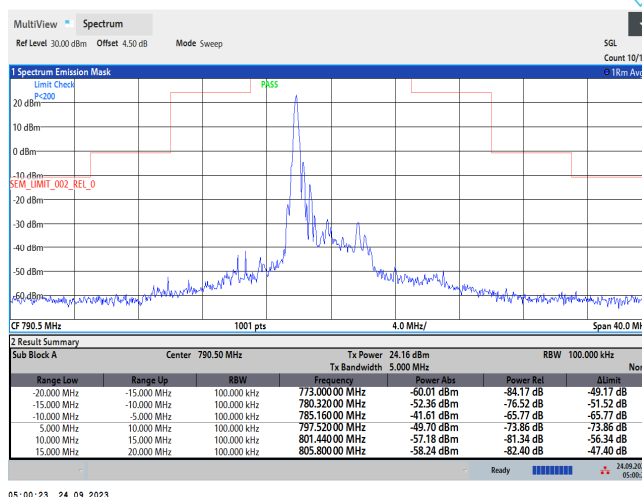
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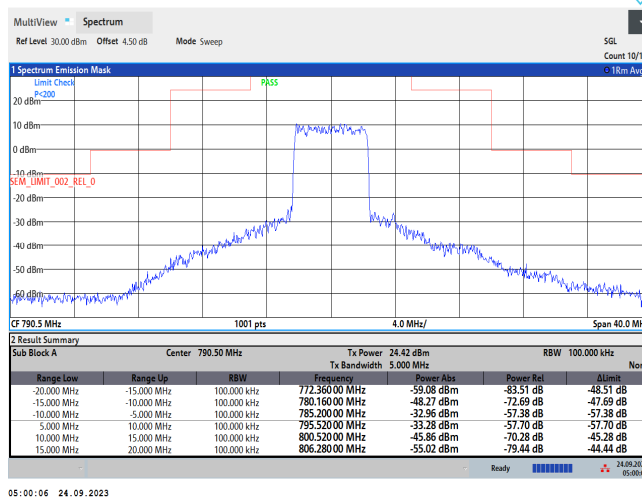
Emission Mask

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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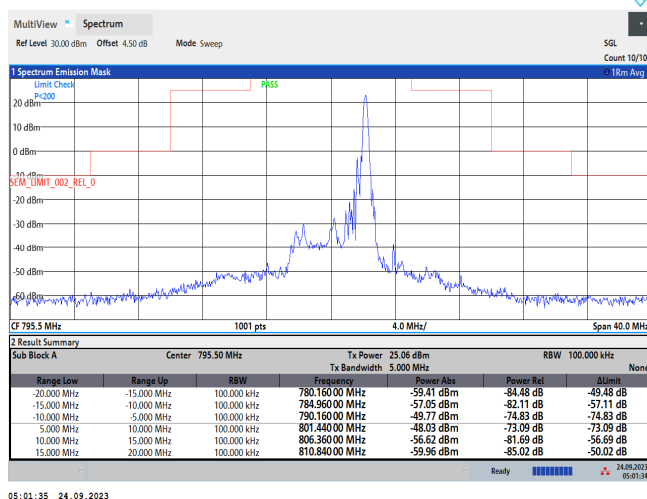
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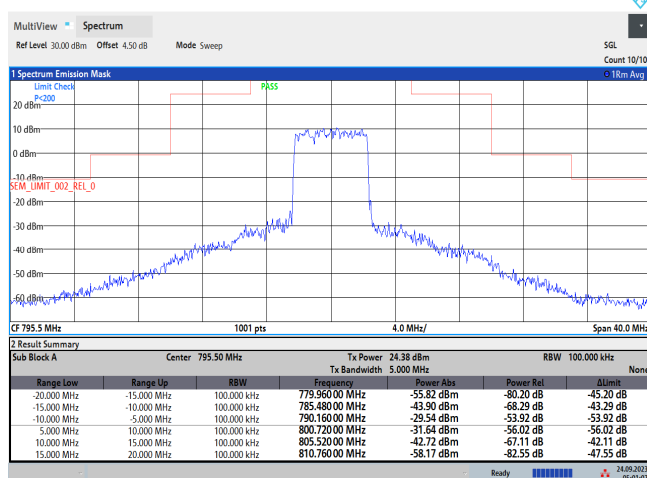
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Band14-5MHz-QPSK-23355-25RB#0



05:01:07 24.09.2023



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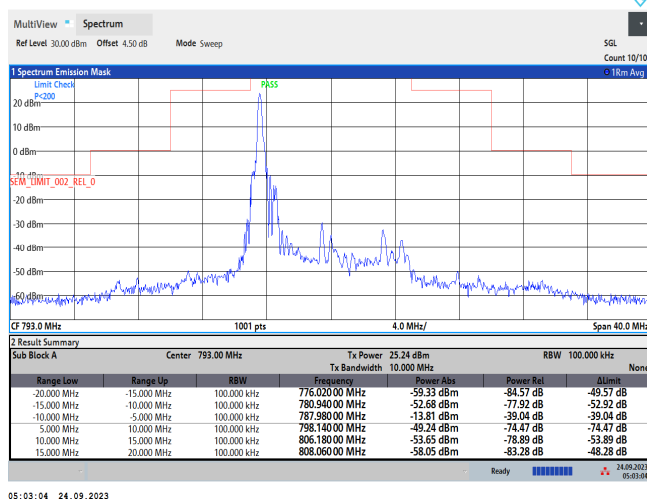
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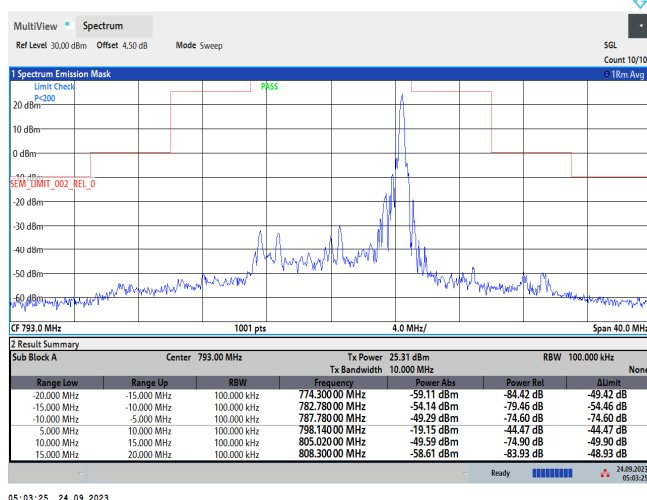
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Band14-10MHz-QPSK-23330-1RB#49



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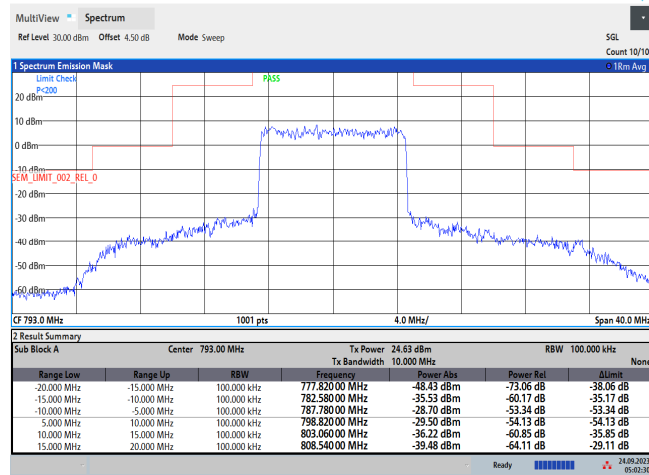
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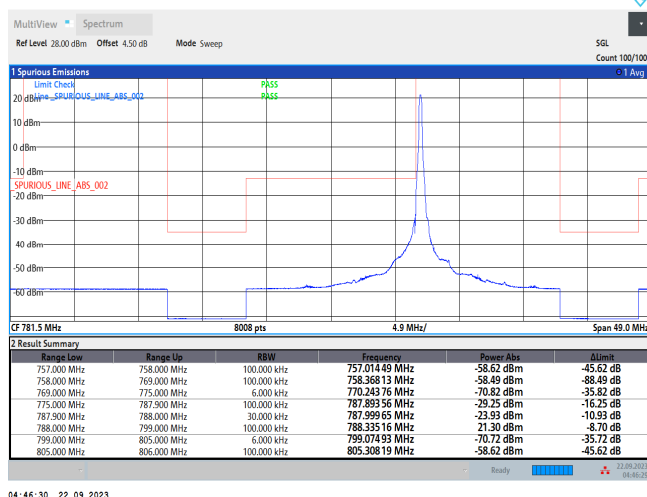
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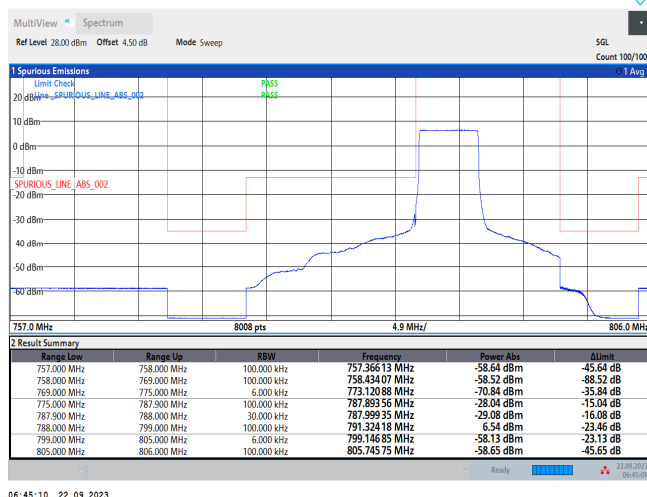
Band Edge

Test Graphs

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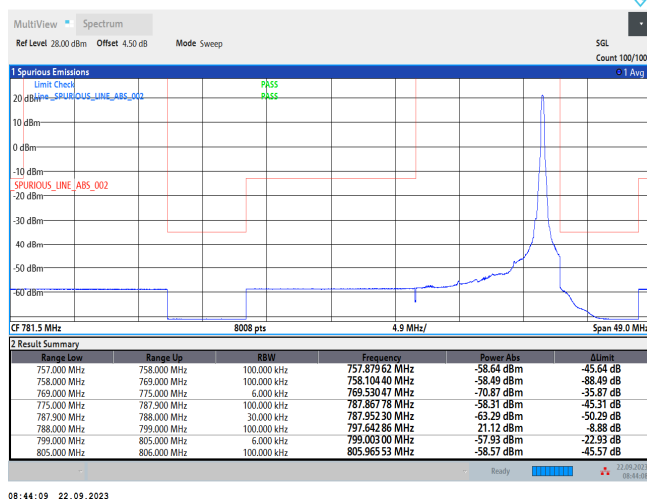
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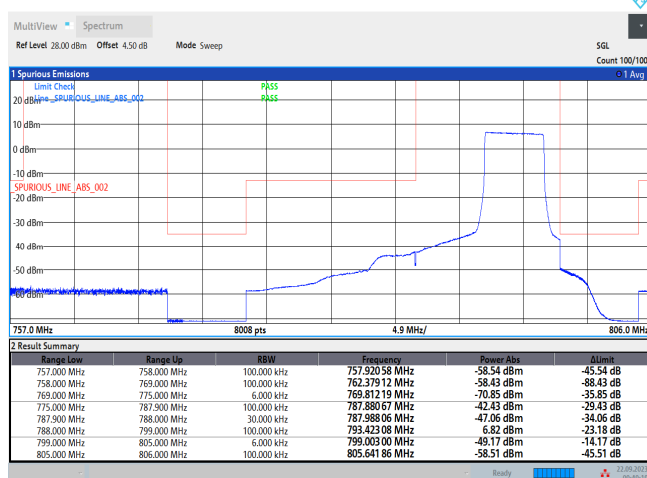
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08:44:09 22.09.2023

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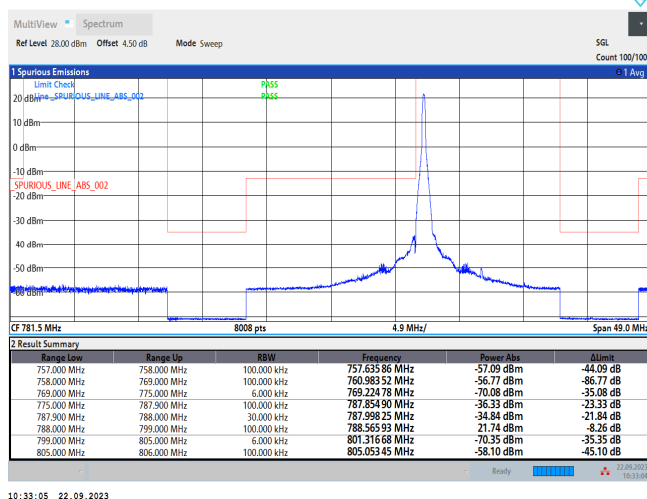
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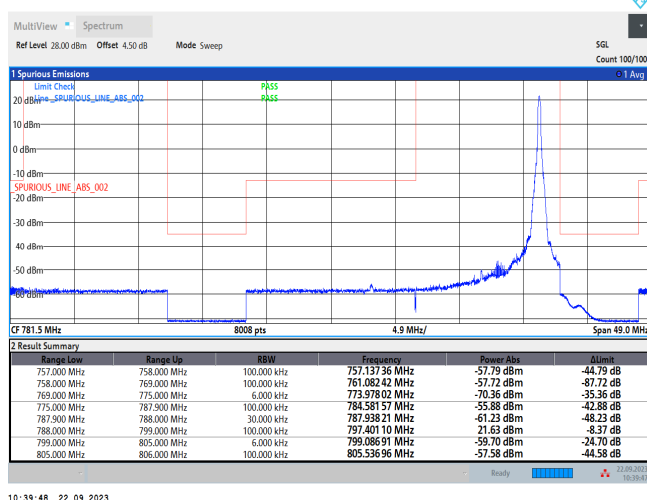
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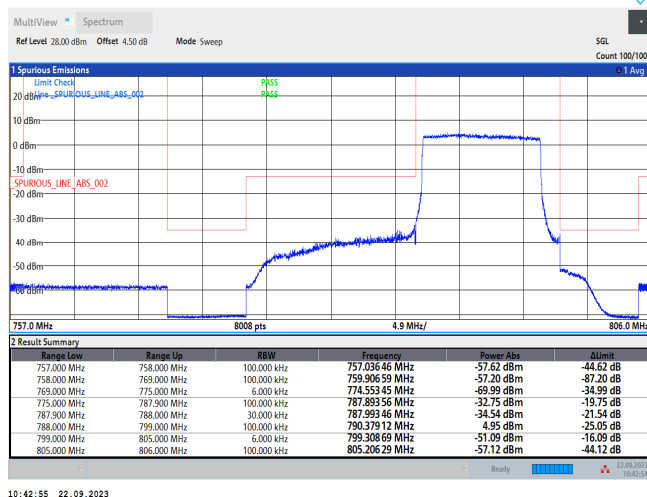
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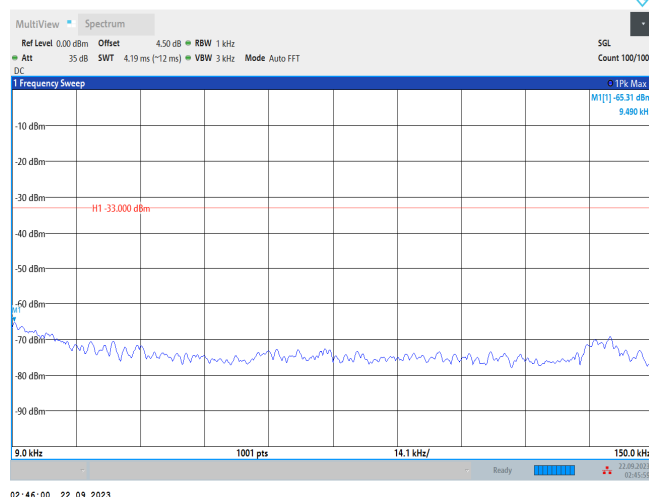
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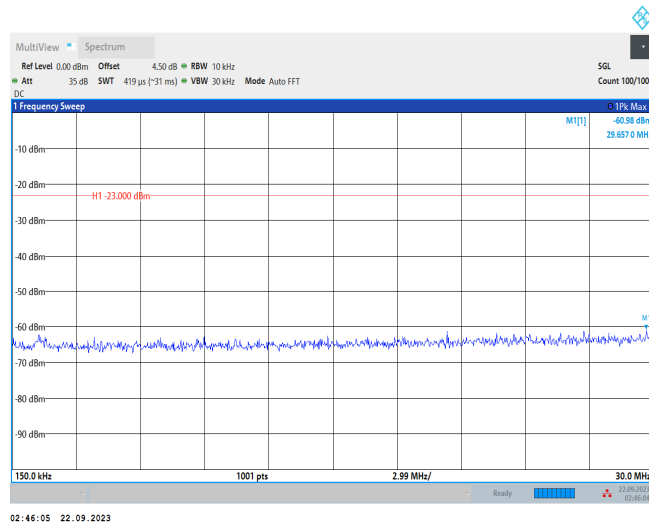
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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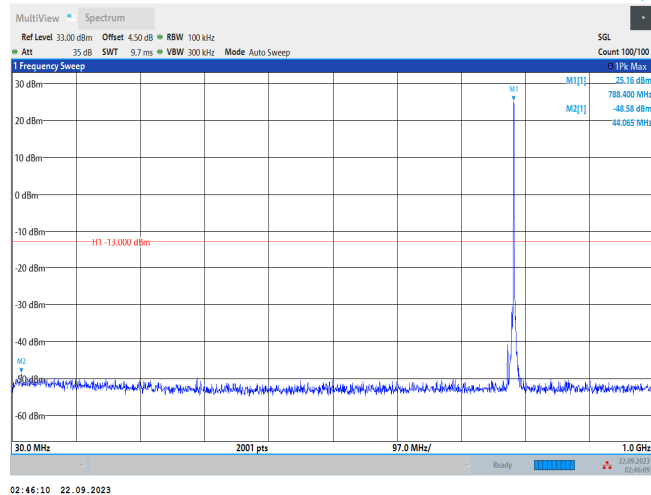
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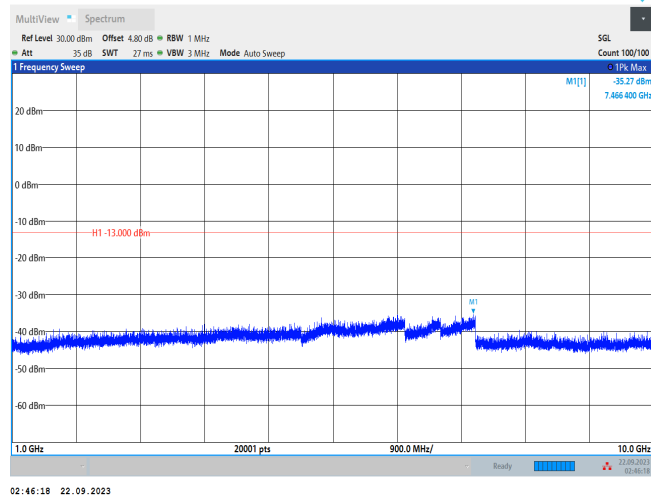
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 14 BW 10M_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.8889	51.69	-49.91	25.01	-68.47	-40.00	28.47	Horizontal
2	2408.8889	57.56	-49.43	27.19	-59.94	-13.00	46.94	Horizontal
3	3477.7778	45.19	-48.49	28.69	-69.87	-13.00	56.87	Horizontal
4	5111.1111	44.26	-47.93	31.77	-67.16	-13.00	54.16	Horizontal
5	6720.4444	43.47	-46.75	34.98	-63.55	-13.00	50.55	Horizontal
6	8351.5556	41.72	-44.37	36.69	-61.22	-13.00	48.22	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.3333	52.25	-49.91	25.01	-67.91	-40.00	27.91	Vertical
2	2210.6667	45.89	-49.45	26.95	-71.87	-13.00	58.87	Vertical
3	3310.6667	45.40	-48.64	28.62	-69.87	-13.00	56.87	Vertical
4	4647.5556	44.79	-48.06	30.65	-67.87	-13.00	54.87	Vertical
5	7248.4444	43.53	-46.14	36.20	-61.67	-13.00	48.67	Vertical
6	8766.2222	41.95	-44.13	37.27	-60.17	-13.00	47.17	Vertical



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Test Band = LTE Band 14 BW 5M_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.8889	49.28	-49.91	25.01	-70.88	-40.00	30.88	Horizontal
2	2335.5556	45.57	-49.25	27.10	-71.84	-13.00	58.84	Horizontal
3	3384.8889	45.19	-48.68	28.65	-70.10	-13.00	57.10	Horizontal
4	5263.1111	44.35	-47.89	32.13	-66.67	-13.00	53.67	Horizontal
5	7148.4444	43.35	-46.08	35.96	-62.03	-13.00	49.03	Horizontal
6	8780.8889	41.44	-44.09	37.29	-60.62	-13.00	47.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.8889	51.70	-49.91	25.01	-68.46	-40.00	28.46	Vertical
2	2264.4444	45.51	-49.26	27.02	-71.99	-13.00	58.99	Vertical
3	2874.6667	45.54	-48.75	28.20	-70.28	-13.00	57.28	Vertical
4	3950.6667	44.90	-48.39	29.33	-69.42	-13.00	56.42	Vertical
5	6443.5556	43.46	-47.18	34.31	-64.67	-13.00	51.67	Vertical
6	7782.2222	42.51	-45.10	36.46	-61.39	-13.00	48.39	Vertical



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Test Band = LTE Band 14 BW 5M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.7778	52.99	-49.91	25.03	-67.15	-40.00	27.15	Horizontal
2	1940.4444	45.80	-49.72	26.46	-72.72	-13.00	59.72	Horizontal
3	2588	45.58	-49.14	27.51	-71.31	-13.00	58.31	Horizontal
4	3928.4444	44.69	-48.41	29.30	-69.68	-13.00	56.68	Horizontal
5	4861.3333	44.61	-48.11	31.17	-67.59	-13.00	54.59	Horizontal
6	6552	44.27	-47.10	34.61	-63.48	-13.00	50.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.7778	51.85	-49.91	25.03	-68.29	-40.00	28.29	Vertical
2	2372.4444	46.88	-49.38	27.15	-70.62	-13.00	57.62	Vertical
3	3218.6667	45.34	-48.62	28.59	-69.95	-13.00	56.95	Vertical
4	4848	44.26	-48.09	31.14	-67.96	-13.00	54.96	Vertical
5	7367.5556	43.01	-46.01	36.48	-61.78	-13.00	48.78	Vertical
6	8766.2222	41.22	-44.13	37.27	-60.90	-13.00	47.90	Vertical



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Test Band = LTE Band 14 BW 5M_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6667	51.82	-49.92	25.05	-68.31	-40.00	28.31	Horizontal
2	2380	48.06	-49.41	27.16	-69.45	-13.00	56.45	Horizontal
3	3272.4444	45.27	-48.63	28.61	-70.01	-13.00	57.01	Horizontal
4	4439.5556	44.86	-48.11	30.19	-68.32	-13.00	55.32	Horizontal
5	6885.3333	43.53	-46.55	35.35	-62.93	-13.00	49.93	Horizontal
6	7835.5556	42.81	-45.22	36.40	-61.27	-13.00	48.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6667	54.05	-49.92	25.05	-66.08	-40.00	26.08	Vertical
2	2380	48.13	-49.41	27.16	-69.38	-13.00	56.38	Vertical
3	3173.3333	45.90	-48.70	28.57	-69.49	-13.00	56.49	Vertical
4	5390.6667	44.00	-47.48	32.44	-66.30	-13.00	53.30	Vertical
5	7659.1111	42.42	-45.03	36.61	-61.26	-13.00	48.26	Vertical
6	8756	42.06	-44.16	37.26	-60.10	-13.00	47.10	Vertical



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Test Band = LTE UL CA 14A-30A_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3574.5	46.27	-48.28	28.80	-68.47	-40.00	28.47	Horizontal
2	5043	45.08	-47.93	31.60	-66.51	-40.00	26.51	Horizontal
3	6268.5	44.47	-47.39	33.71	-64.47	-40.00	24.47	Horizontal
4	8357	42.26	-44.30	36.70	-60.60	-40.00	20.60	Horizontal
5	10780.5	39.82	-40.78	39.20	-57.01	-40.00	17.01	Horizontal
6	14777.5	36.85	-36.81	40.28	-54.94	-40.00	14.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3517.5	61.80	-48.29	28.72	-53.02	-40.00	13.02	Vertical
2	4617	45.29	-47.99	30.58	-67.38	-40.00	27.38	Vertical
3	7052	43.65	-46.20	35.72	-62.08	-40.00	22.08	Vertical
4	9838.5	40.40	-42.17	38.35	-58.67	-40.00	18.67	Vertical
5	12034	38.44	-39.49	39.18	-57.13	-40.00	17.13	Vertical
6	15375	37.34	-37.40	39.39	-55.93	-40.00	15.93	Vertical



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Test Band = LTE UL CA 14A-30A_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3994.5	46.09	-48.19	29.39	-67.96	-40.00	27.96	Horizontal
2	4672.5	45.39	-47.97	30.71	-67.13	-40.00	27.13	Horizontal
3	5561.5	45.14	-47.67	32.71	-65.07	-40.00	25.07	Horizontal
4	7851	43.16	-45.19	36.38	-60.91	-40.00	20.91	Horizontal
5	11430.5	38.79	-40.07	39.31	-57.23	-40.00	17.23	Horizontal
6	14750.5	37.26	-36.77	40.30	-54.47	-40.00	14.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3240	46.77	-48.11	28.60	-68.00	-40.00	28.00	Vertical
2	4428.5	45.44	-48.07	30.17	-67.72	-40.00	27.72	Vertical
3	6776.5	45.18	-46.81	35.11	-61.78	-40.00	21.78	Vertical
4	9005	41.10	-43.15	37.60	-59.71	-40.00	19.71	Vertical
5	13105	38.03	-38.42	38.84	-56.80	-40.00	16.80	Vertical
6	14766	37.24	-36.79	40.29	-54.53	-40.00	14.53	Vertical



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Test Band = LTE UL CA 14A-30A_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3918	45.98	-48.27	29.29	-68.27	-40.00	28.27	Horizontal
2	4987	44.62	-48.01	31.47	-67.18	-40.00	27.18	Horizontal
3	7255.5	44.16	-46.18	36.21	-61.06	-40.00	21.06	Horizontal
4	9892	40.42	-42.12	38.40	-58.55	-40.00	18.55	Horizontal
5	12053	38.30	-39.53	39.17	-57.32	-40.00	17.32	Horizontal
6	15347.5	37.09	-37.59	39.44	-56.32	-40.00	16.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3501	50.36	-48.29	28.70	-64.49	-40.00	24.49	Vertical
2	4581	45.30	-48.00	30.49	-67.46	-40.00	27.46	Vertical
3	7292	43.92	-46.16	36.30	-61.20	-40.00	21.20	Vertical
4	10770.5	39.41	-40.81	39.19	-57.46	-40.00	17.46	Vertical
5	14772.5	37.02	-36.80	40.28	-54.76	-40.00	14.76	Vertical
6	17983	35.73	-36.57	45.19	-50.91	-40.00	10.91	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
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	0.10	0.000126	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.50	0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-0.90	-0.001135	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-0.70	-0.000883	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-1.80	-0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-1.50	-0.001892	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-0.70	-0.000883	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	1.30	0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	0.00	0.000000	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-0.60	-0.000757	PASS

---End of Attachment---



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