

# Appendix B.9

## 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	23.07	20.6	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.18	20.71	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.99	20.52	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.17	19.7	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.01	20.54	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.11	20.64	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.92	20.45	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.09	19.62	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.01	20.54	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.04	20.57	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.91	20.44	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.08	19.61	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.35	19.88	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.35	19.88	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.34	19.87	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.11	18.64	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.41	19.94	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.36	19.89	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.29	19.82	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.1	18.63	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.36	19.89	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.35	19.88	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.13	19.66	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.07	18.6	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.32	18.85	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.33	18.86	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.2	18.73	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	20.15	17.68	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.14	18.67	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.36	18.89	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.27	18.8	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.17	17.7	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.28	18.81	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.31	18.84	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.34	18.87	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.04	17.57	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.38	20.91	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.08	20.61	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.04	20.57	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.07	19.6	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.56	20.09	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.51	20.04	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.42	19.95	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.03	18.56	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.47	19	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.39	18.92	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.22	18.75	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.02	17.55	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

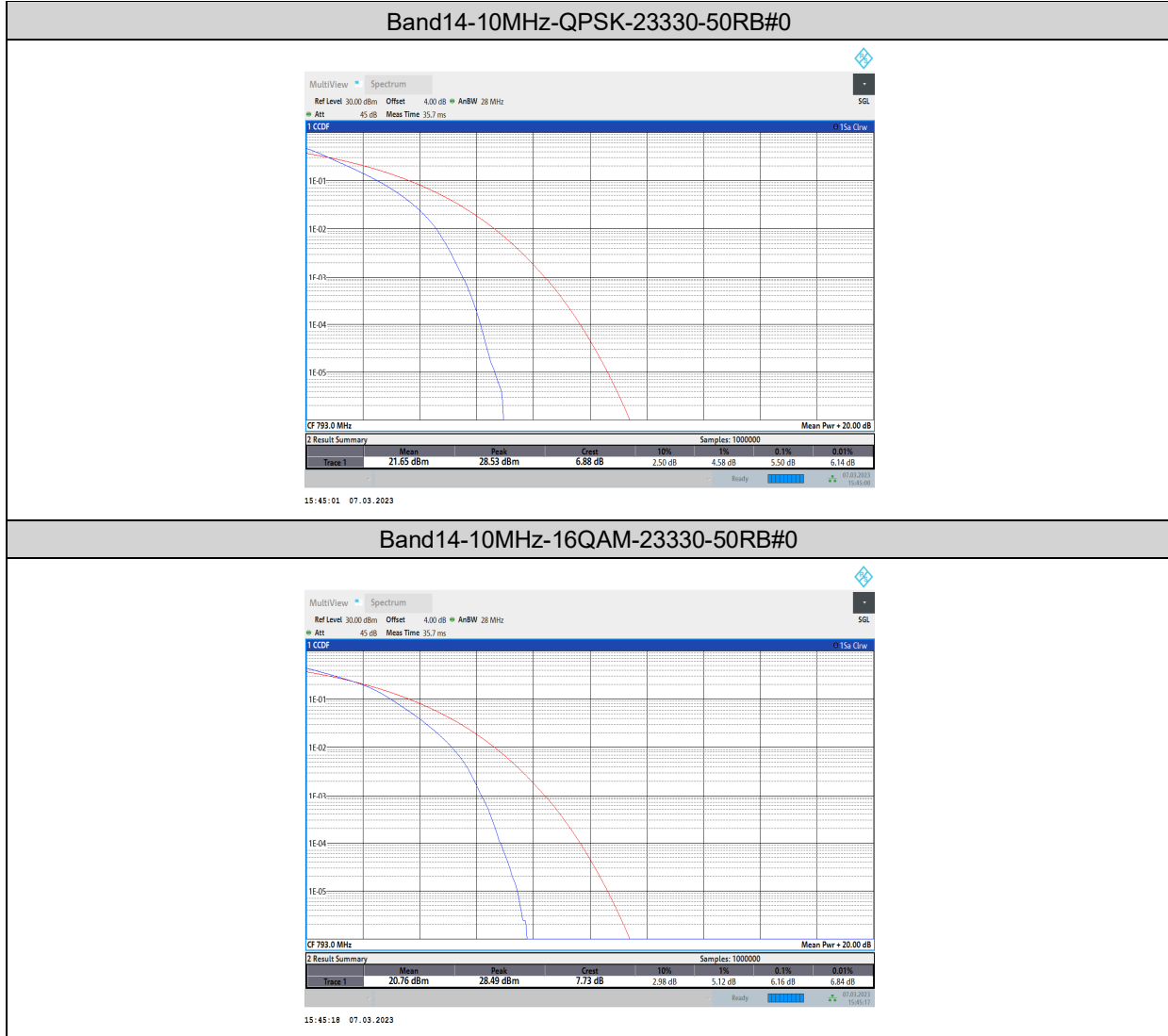
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.50	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.16	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.68	13	PASS



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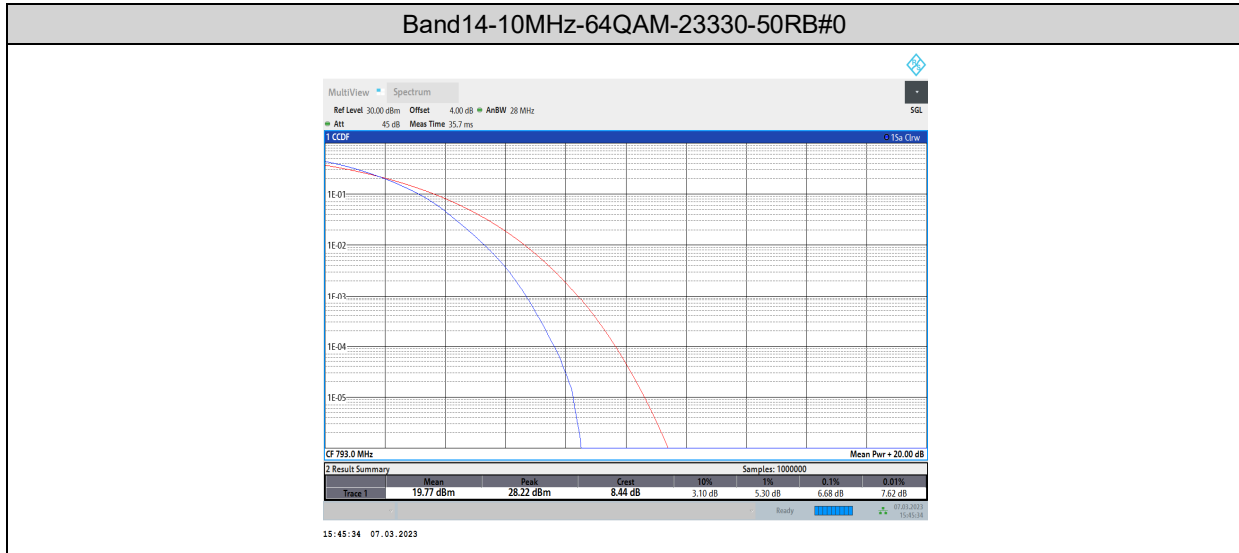
Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.465	4.90	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.464	4.88	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.474	4.88	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.462	4.91	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.468	4.90	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.472	4.89	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.474	4.91	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.478	4.91	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.479	4.89	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.939	9.67	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.92	9.67	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.941	9.70	PASS

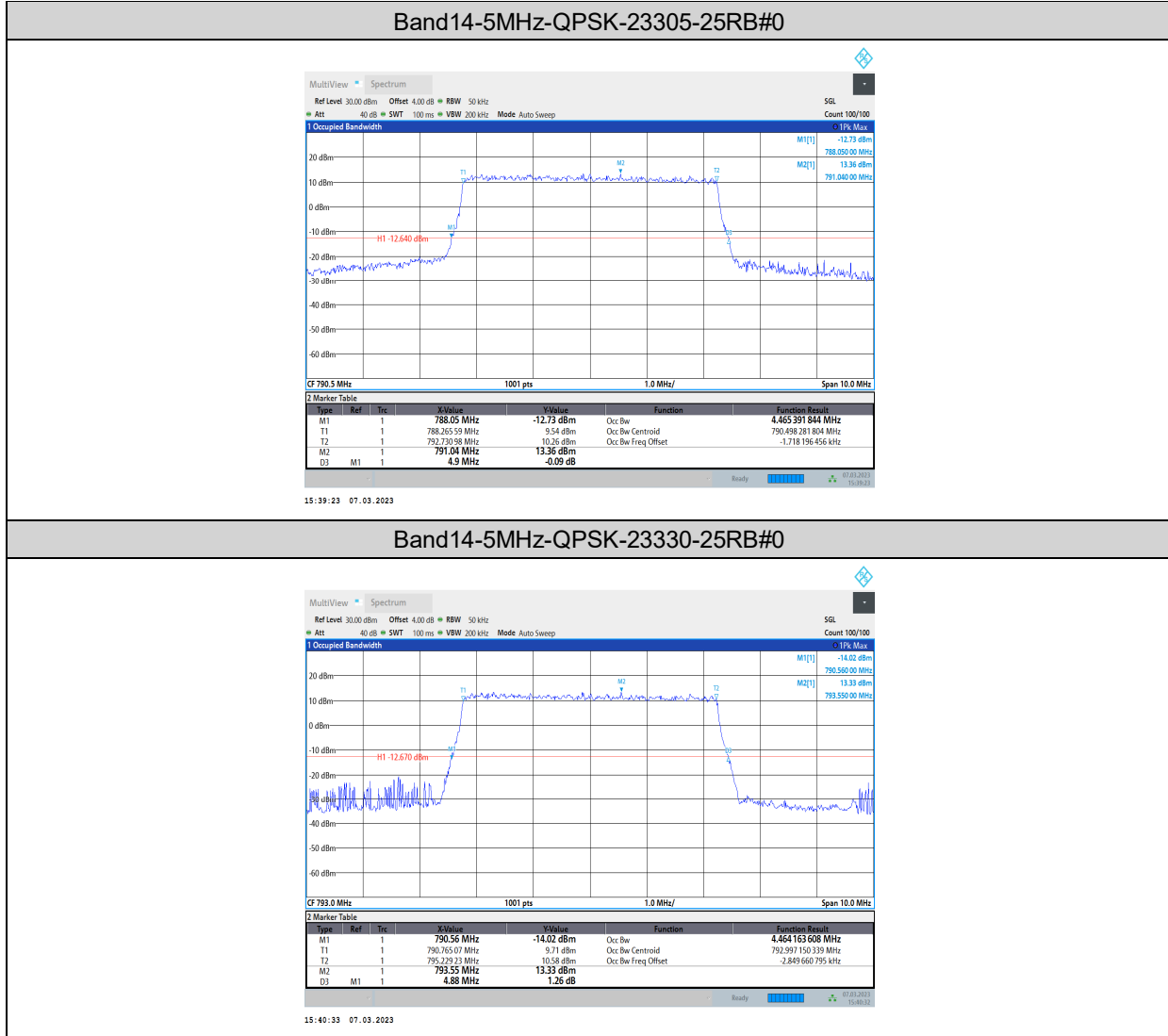


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Test Graphs



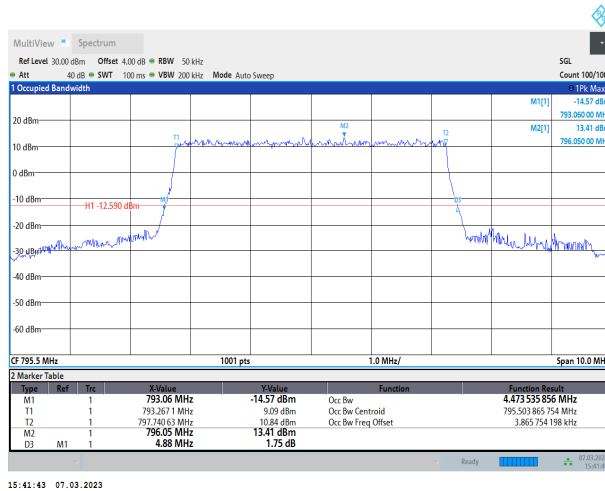
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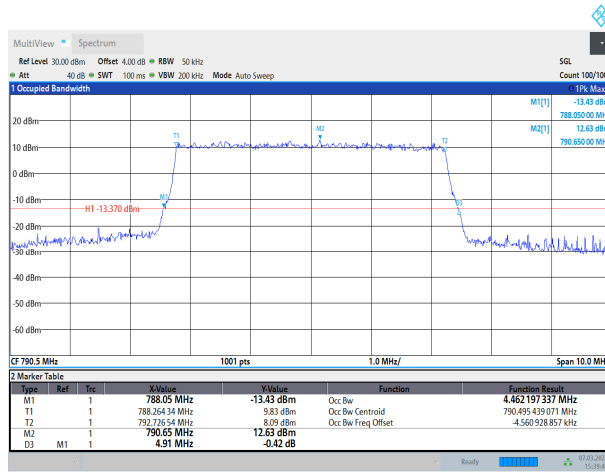


Band14-5MHz-QPSK-23355-25RB#0



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Band14-5MHz-16QAM-23305-25RB#0



15:39:46 07.03.2023

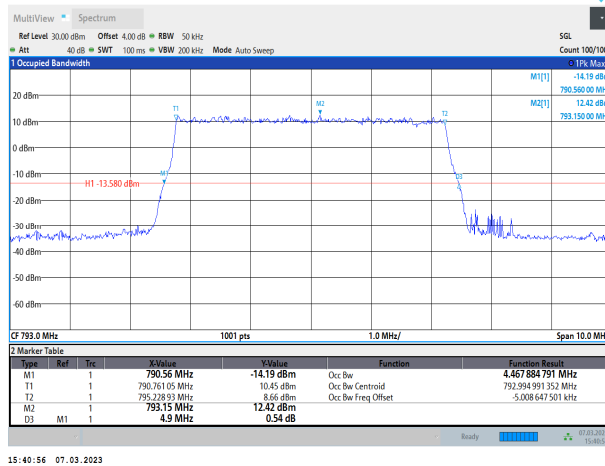


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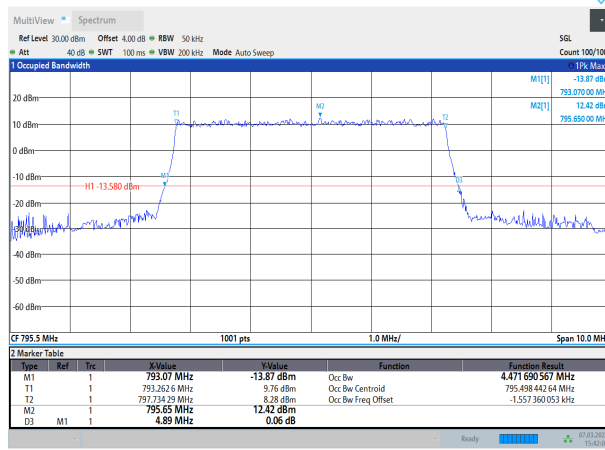
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Band14-5MHz-16QAM-23330-25RB#0



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Band14-5MHz-16QAM-23355-25RB#0



15:42:06 07.03.2023

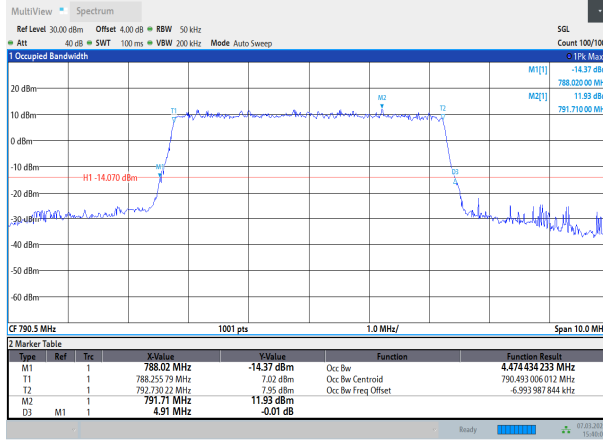


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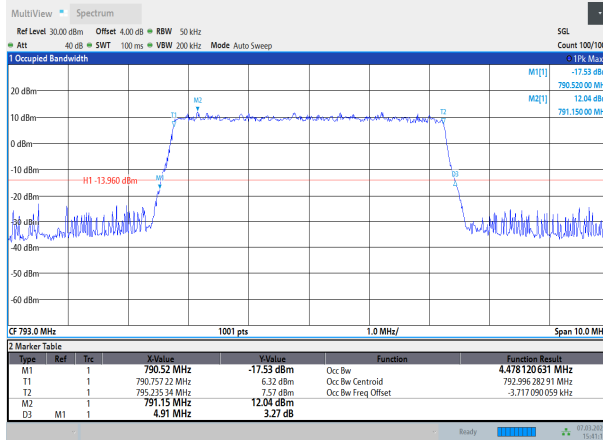
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Band14-5MHz-64QAM-23305-25RB#0



15:40:10 07.03.2023

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



15:41:19 07.03.2023

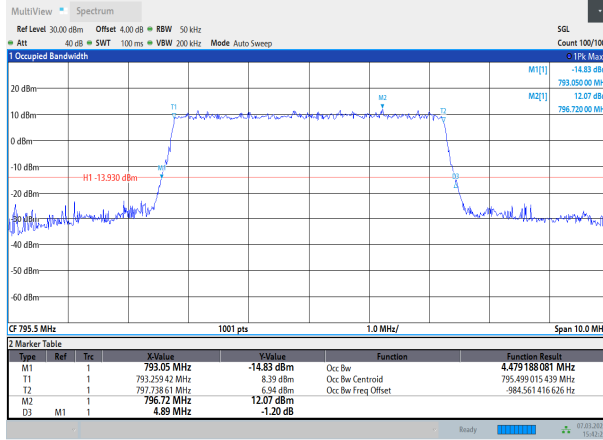


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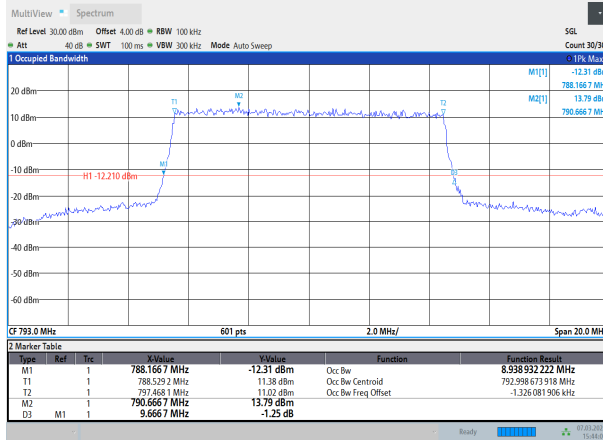
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Band14-5MHz-64QAM-23355-25RB#0



15:42:29 07.03.2023

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



15:44:06 07.03.2023

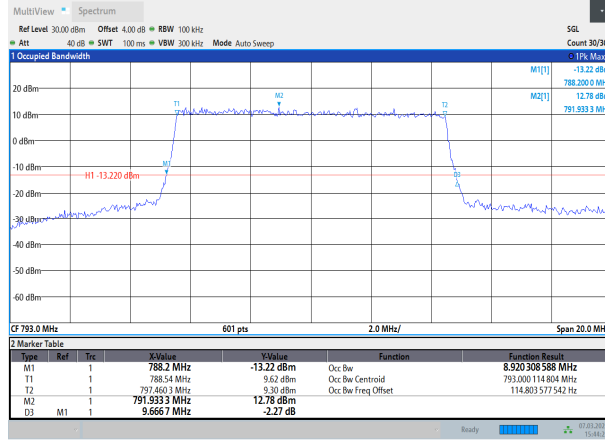


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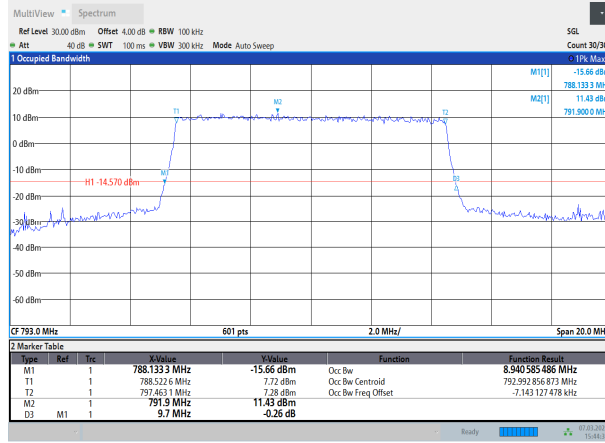
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**Band14-10MHz-16QAM-23330-50RB#0**



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



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## Emission mask

## Test Graphs

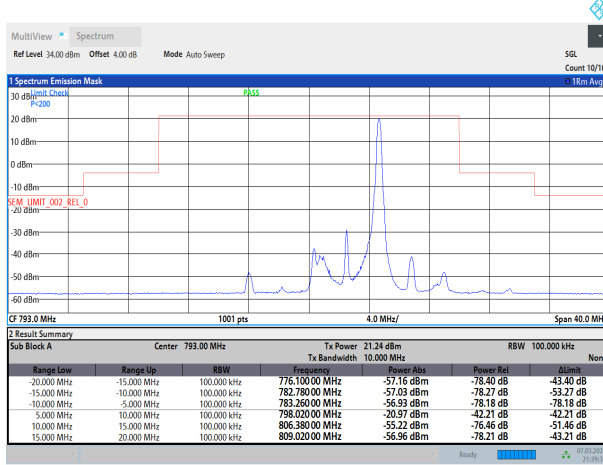


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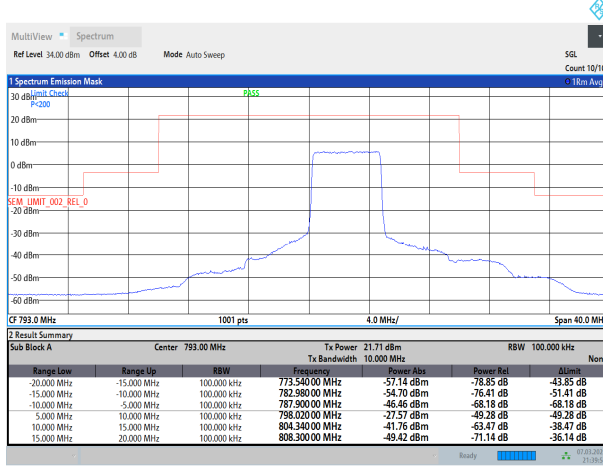
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Band14-5MHz-QPSK-23355-1RB#24



21:39:37 07.03.2023

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



21:39:51 07.03.2023

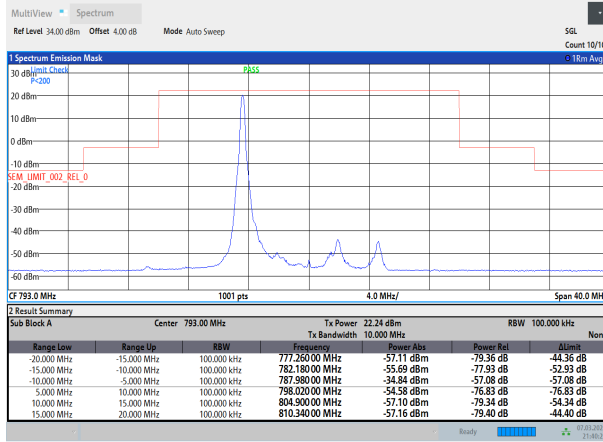


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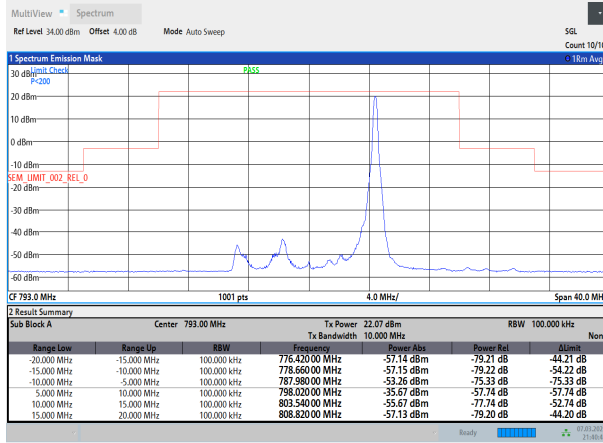
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Band14-10MHz-QPSK-23330-1RB#0



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



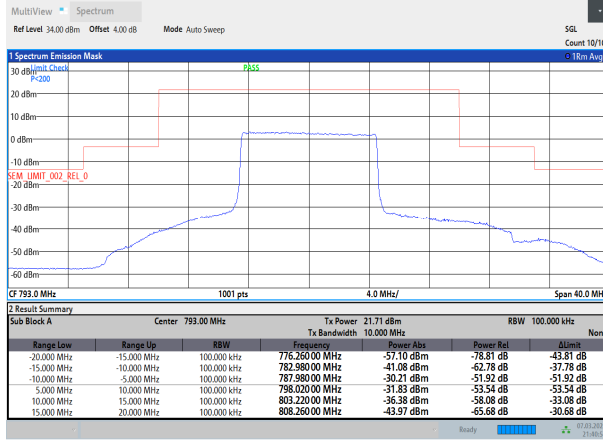
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Band14-10MHz-QPSK-23330-50RB#0



21:40:58 07.03.2023



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## Band Edge

## Test Graphs

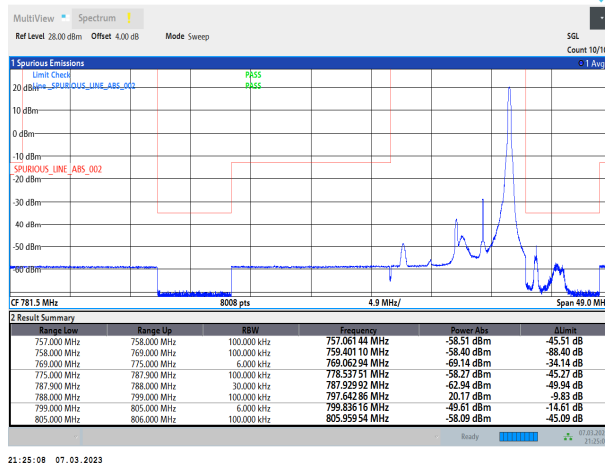


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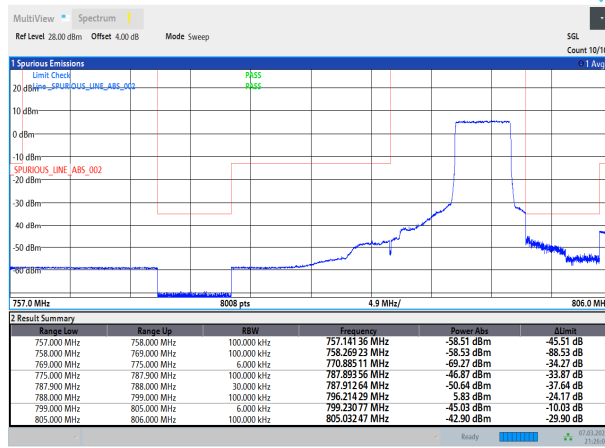
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21:25:08 07.03.2023

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21:26:02 07.03.2023

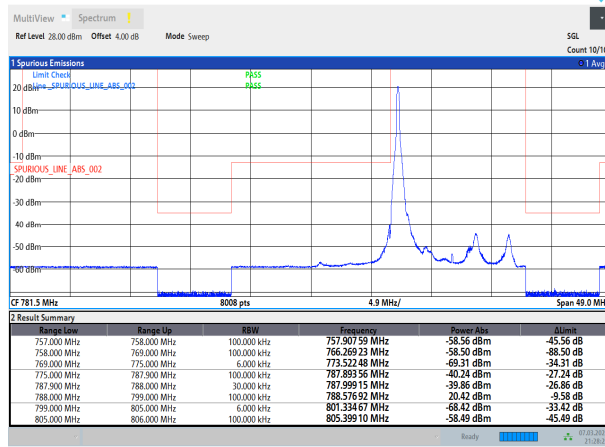


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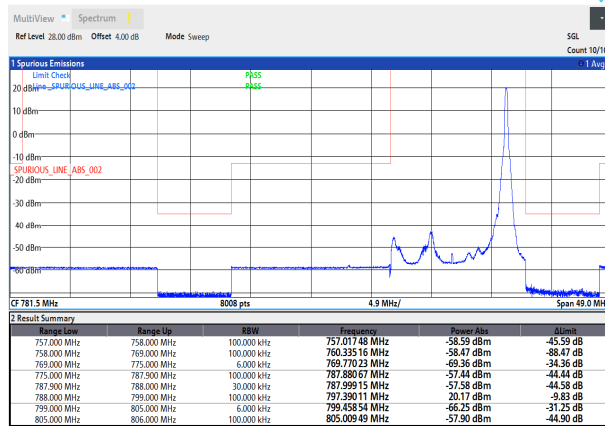
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Band14-10MHz-QPSK-23330-1RB#0



21:28:21 07.03.2023

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



21:30:25 07.03.2023

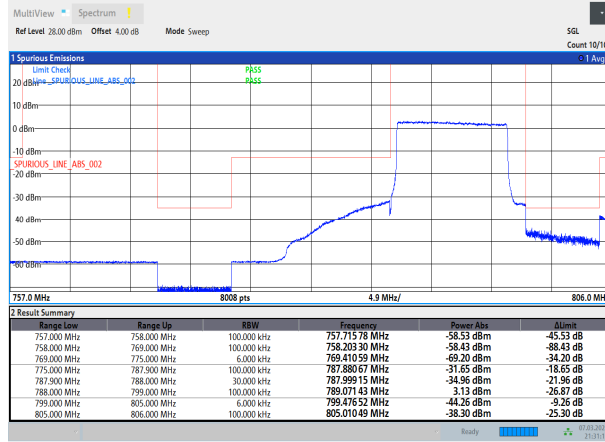


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Band14-10MHz-QPSK-23330-50RB#0



21:31:20 07.03.2023



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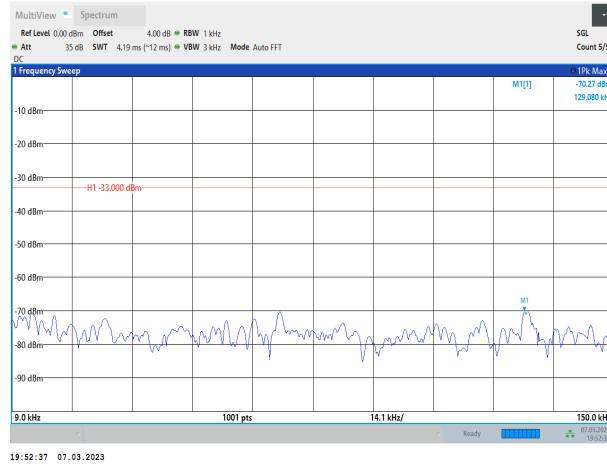
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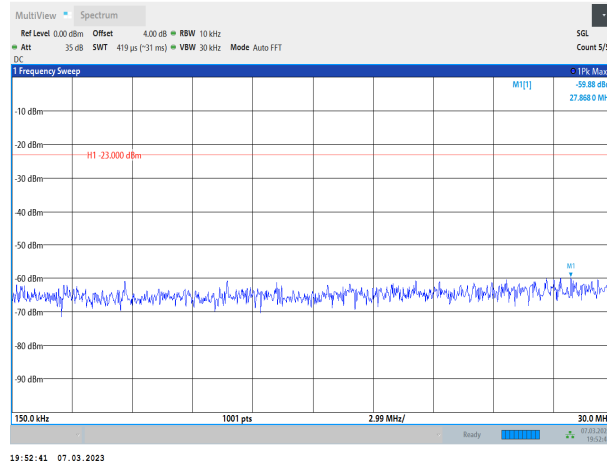
## Conducted Spurious Emission

### Test Graphs

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



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

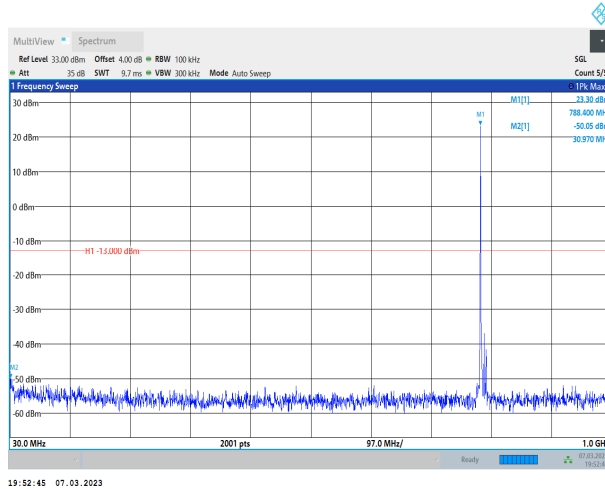


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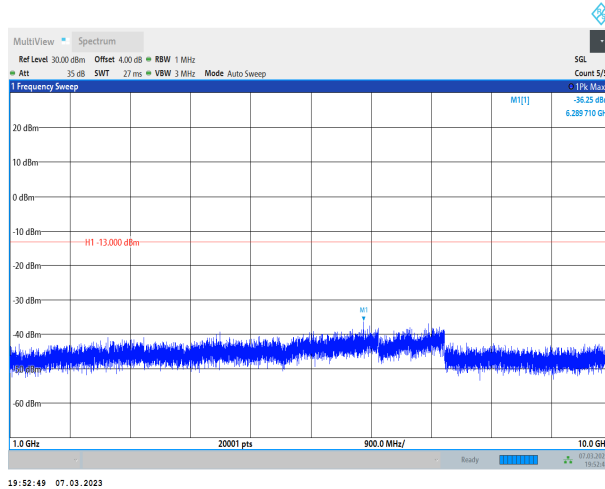
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band 14 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]	Height [cm]	Angle [°]	Polarity
1	1577.18	62.99	-48.51	25.58	-55.21	-40.00	15.21	197	0	Horizontal
2	2365.77	44.35	-47.60	27.63	-70.88	-13.00	57.88	183	108	Horizontal
3	3154.36	42.19	-46.39	29.54	-69.92	-13.00	56.92	265	154	Horizontal
4	3942.95	41.71	-45.52	30.46	-68.60	-13.00	55.60	143	1	Horizontal
5	4731.54	42.20	-44.57	31.96	-65.67	-13.00	52.67	280	78	Horizontal
6	5520.13	41.10	-43.76	32.67	-65.25	-13.00	52.25	192	46	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	60.35	-48.51	25.58	-57.85	-40.00	17.85	259	331	Vertical
2	2365.77	45.67	-47.60	27.63	-69.56	-13.00	56.56	163	120	Vertical
3	3154.36	43.17	-46.39	29.54	-68.94	-13.00	55.94	284	284	Vertical
4	3942.95	46.15	-45.52	30.46	-64.16	-13.00	51.16	176	169	Vertical
5	4731.54	41.81	-44.57	31.96	-66.06	-13.00	53.06	212	59	Vertical
6	5520.13	40.87	-43.76	32.67	-65.48	-13.00	52.48	229	0	Vertical



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**Test Band = LTE Band 14 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]	Height [cm]	Angle [°]	Polarity
1	1576.68	60.97	-48.51	25.58	-57.23	-40.00	17.23	189	80	Horizontal
2	2365.02	44.35	-47.60	27.63	-70.88	-13.00	57.88	216	217	Horizontal
3	3153.36	42.83	-46.39	29.54	-69.29	-13.00	56.29	223	1	Horizontal
4	3941.7	41.36	-45.52	30.46	-68.96	-13.00	55.96	174	0	Horizontal
5	4730.04	41.74	-44.57	31.95	-66.14	-13.00	53.14	168	3	Horizontal
6	5518.38	40.48	-43.76	32.66	-65.88	-13.00	52.88	211	62	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	61.26	-48.51	25.58	-56.94	-40.00	16.94	268	154	Vertical
2	2365.02	44.71	-47.60	27.63	-70.52	-13.00	57.52	241	106	Vertical
3	3153.36	42.62	-46.39	29.54	-69.50	-13.00	56.50	189	144	Vertical
4	3941.7	45.56	-45.52	30.46	-64.76	-13.00	51.76	239	3	Vertical
5	4730.04	41.79	-44.57	31.95	-66.09	-13.00	53.09	211	325	Vertical
6	5518.38	40.54	-43.76	32.66	-65.82	-13.00	52.82	165	235	Vertical



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**Test Band = LTE Band 14 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]	Height [cm]	Angle [°]	Polarity
1	1581.68	62.96	-48.51	25.58	-55.23	-40.00	15.23	215	298	Horizontal
2	2372.52	43.02	-47.60	27.65	-72.20	-13.00	59.20	149	15	Horizontal
3	3163.36	42.29	-46.37	29.53	-69.80	-13.00	56.80	228	94	Horizontal
4	3954.2	41.06	-45.51	30.49	-69.22	-13.00	56.22	183	141	Horizontal
5	4745.04	41.03	-44.58	31.99	-66.82	-13.00	53.82	274	30	Horizontal
6	5535.88	40.00	-43.74	32.72	-66.29	-13.00	53.29	182	2	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	60.83	-48.51	25.58	-57.36	-40.00	17.36	147	90	Vertical
2	2372.52	43.62	-47.60	27.65	-71.60	-13.00	58.60	158	340	Vertical
3	3163.36	42.07	-46.37	29.53	-70.02	-13.00	57.02	193	292	Vertical
4	3954.2	42.83	-45.51	30.49	-67.45	-13.00	54.45	263	359	Vertical
5	4745.04	41.25	-44.58	31.99	-66.60	-13.00	53.60	158	351	Vertical
6	5535.88	40.69	-43.74	32.72	-65.60	-13.00	52.60	224	359	Vertical



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**Test Band = LTE Band 14 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]	Height [cm]	Angle [°]	Polarity
1	1586.6667	67.59	-48.52	25.59	-50.60	-40.00	10.60	151	124	Horizontal
2	2380.02	43.43	-47.60	27.66	-71.77	-13.00	58.77	233	16	Horizontal
3	3173.36	42.20	-46.34	29.53	-69.87	-13.00	56.87	182	108	Horizontal
4	3966.7	41.43	-45.51	30.52	-68.82	-13.00	55.82	142	124	Horizontal
5	4760.04	41.40	-44.59	32.03	-66.42	-13.00	53.42	169	187	Horizontal
6	5553.38	39.91	-43.73	32.77	-66.30	-13.00	53.30	283	298	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6667	63.34	-48.52	25.59	-54.85	-40.00	14.85	189	152	Vertical
2	2380.02	43.78	-47.60	27.66	-71.42	-13.00	58.42	196	169	Vertical
3	3173.36	41.86	-46.34	29.53	-70.21	-13.00	57.21	231	138	Vertical
4	3966.7	43.73	-45.51	30.52	-66.52	-13.00	53.52	289	3	Vertical
5	4760.04	42.22	-44.59	32.03	-65.60	-13.00	52.60	264	62	Vertical
6	5553.38	40.02	-43.73	32.77	-66.19	-13.00	53.19	141	107	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) - Pre-amplifier (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	-0.90	-0.001135	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	1.30	0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-1.60	-0.002018	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-1.60	-0.002018	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-1.70	-0.002144	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-1.60	-0.002018	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-2.60	-0.003279	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	1.00	0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.50	-0.001892	PASS

---End of Attachment---



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