



# Appendix B.8

## LTE Band 13



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant 13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.65	15.00	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.64	14.99	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.59	14.94	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.75	14.10	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.57	14.92	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.61	14.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.64	14.99	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.80	14.15	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.53	14.88	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.69	15.04	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.51	14.86	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.76	14.11	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.85	14.20	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.83	14.18	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.75	14.10	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.73	13.08	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.86	14.21	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.75	14.10	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.80	14.15	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.73	13.08	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.79	14.14	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.88	14.23	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.84	14.19	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.72	13.07	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.92	13.27	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.55	12.90	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.67	13.02	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.70	12.05	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.97	13.32	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.70	13.05	34.77	PASS



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Band13	5MHz	64QAM	23230	1RB#24	21.83	13.18	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.71	12.06	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.93	13.28	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.80	13.15	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.84	13.19	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.76	12.11	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.19	15.54	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.95	15.30	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.07	15.42	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.63	13.98	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.40	14.75	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.81	14.16	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.32	14.67	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.79	13.14	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.27	13.62	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.80	13.15	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.95	13.30	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.80	12.15	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

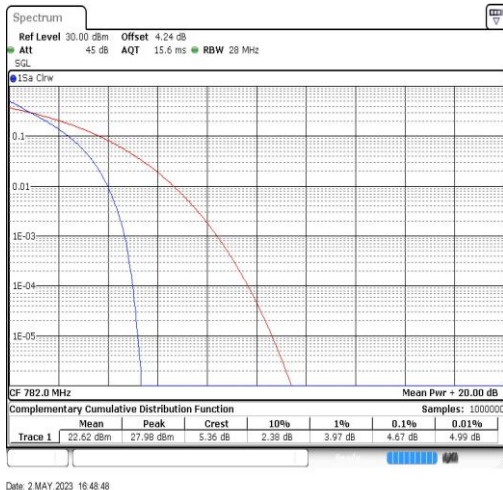
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.67	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.48	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	5.97	13	PASS



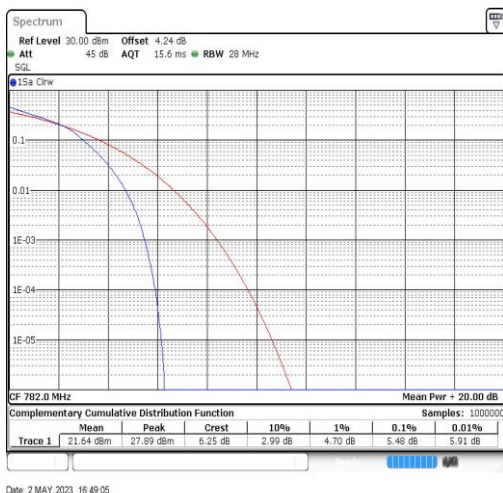
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### Test Graphs



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

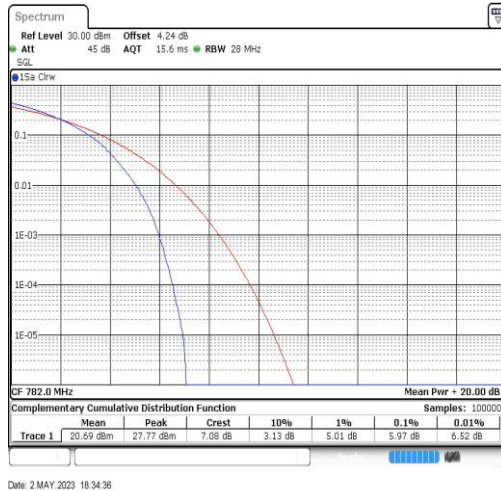


Band13-10MHz-16QAM-23230-50RB#0



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Date: 2 MAY 2023 18:34:36

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



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Shenzhen Branch

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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

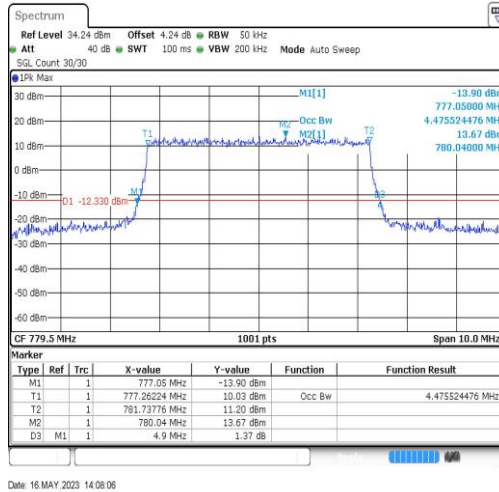
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.476	4.90	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.92	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.87	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.466	4.90	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.466	4.93	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.466	4.93	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.466	4.89	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.476	4.90	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.476	4.89	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.66	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.931	9.66	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.931	9.66	PASS



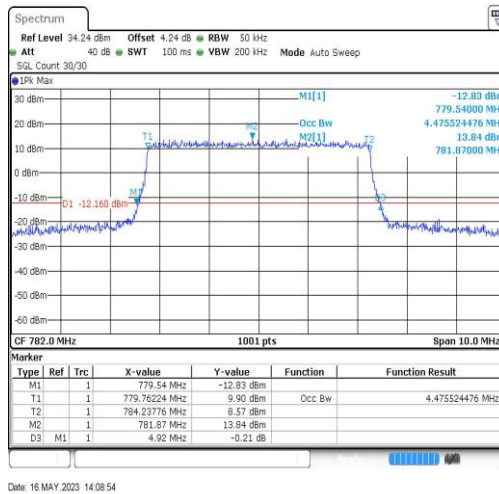
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**Test Graphs**



**Band13-5MHz-QPSK-23205-25RB#0-4.476**



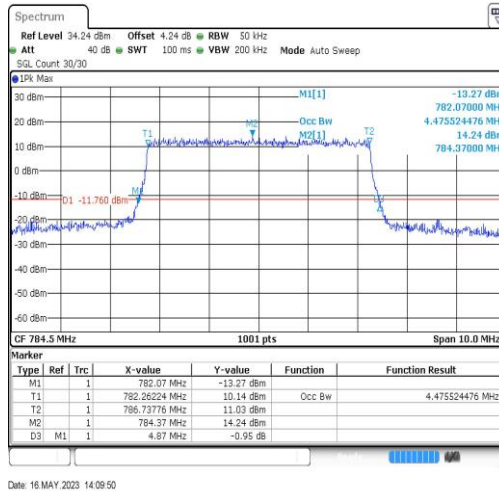
**Band13-5MHz-QPSK-23230-25RB#0-4.476**



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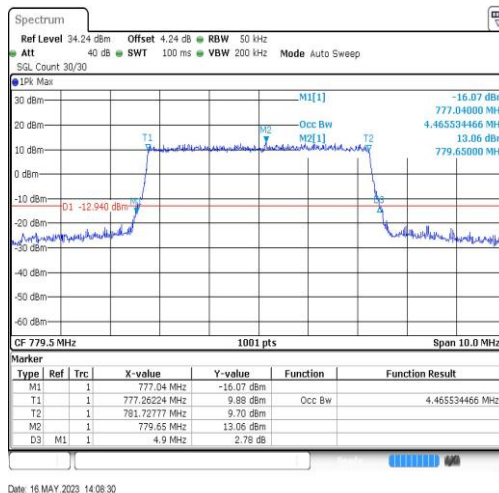
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Date: 16 MAY 2023 14:08:50

### Band13-5MHz-QPSK-23255-25RB#0-4.476



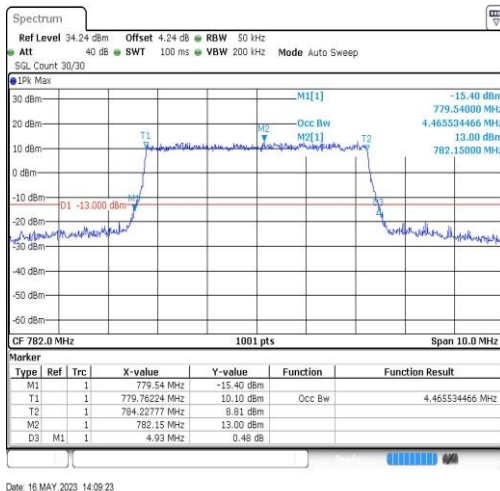
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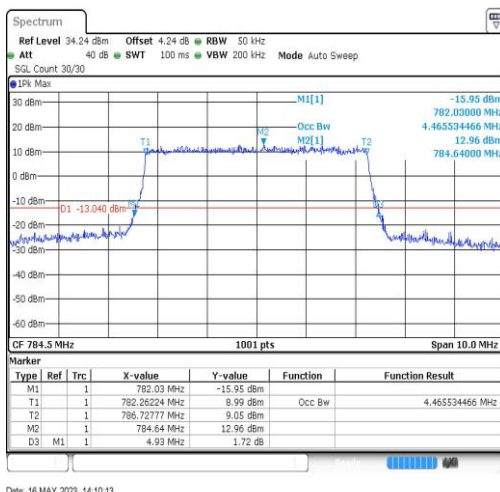
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Date: 16 MAY 2023 14:09:23

Band13-5MHz-16QAM-23230-25RB#0-4.466

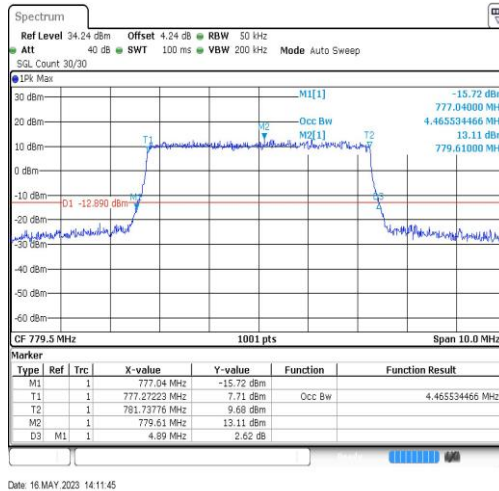


Date: 16 MAY 2023 14:10:13

Band13-5MHz-16QAM-23255-25RB#0-4.466

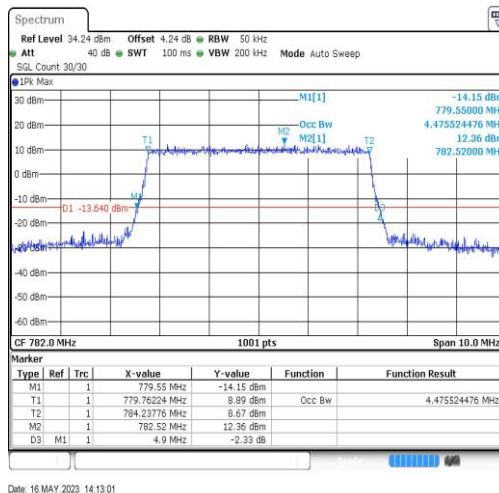


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Date: 16 MAY 2023 14:11:45

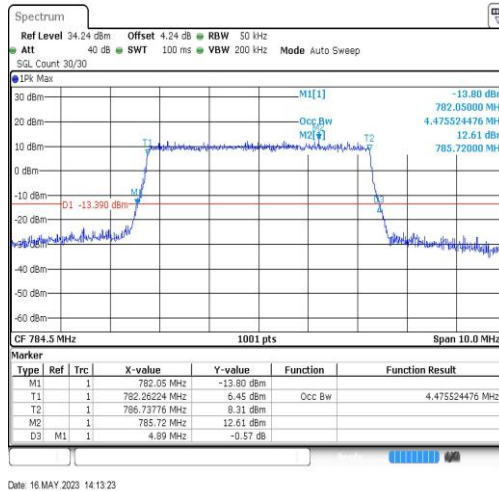
Band13-5MHz-64QAM-23205-25RB#0-4.466



Date: 16 MAY 2023 14:13:01

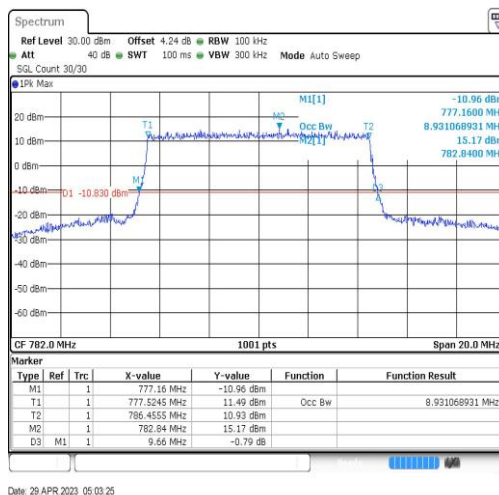
Band13-5MHz-64QAM-23230-25RB#0-4.476





Date: 16 MAY 2023 14:13:23

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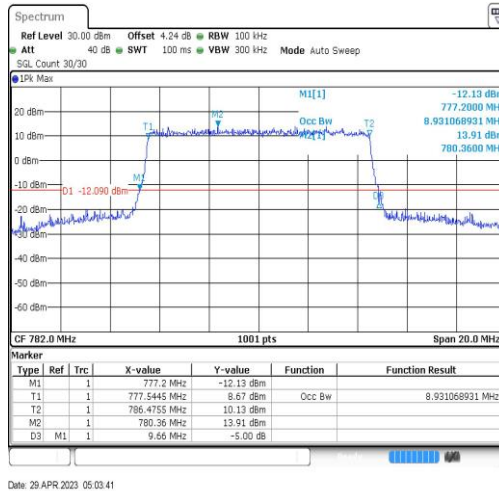


Date: 29 APR 2023 05:03:25

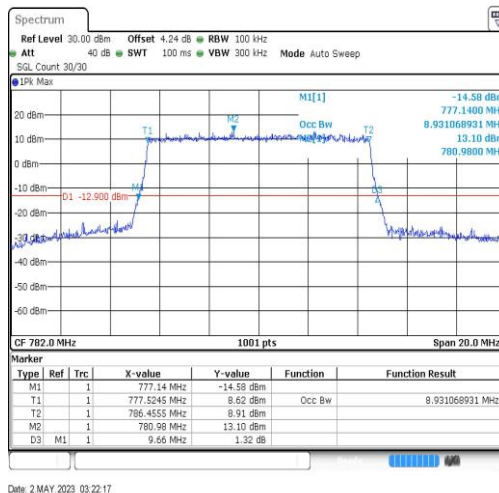
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Band13-10MHz-16QAM-23230-50RB#0-8.931



Band13-10MHz-64QAM-23230-50RB#0-8.931



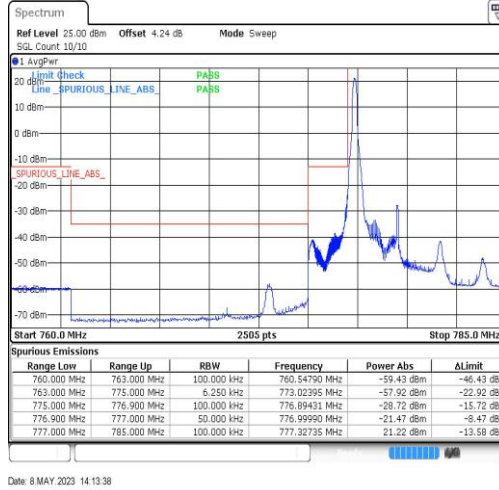
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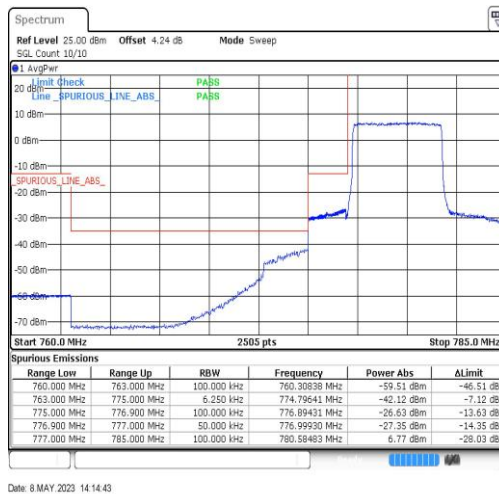


### Band Edge

### Test Graphs



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



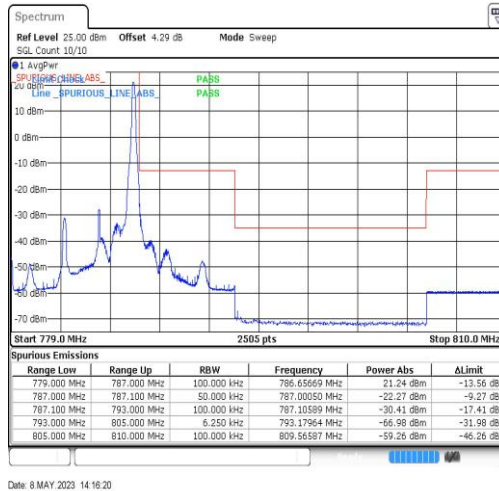
Band13-5MHz-QPSK-23205-25RB#0



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



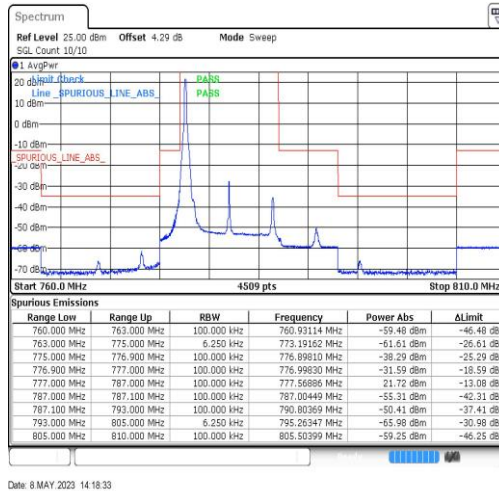
Band13-5MHz-QPSK-23255-25RB#0



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Date: 8 MAY 2023 14:18:33

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



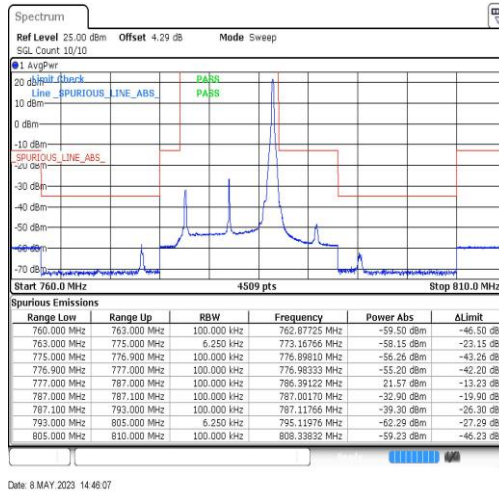
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**Band13-10MHz-QPSK-23230-50RB#0**



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Date: 8 MAY 2023 14:46:07

Band13-10MHz-QPSK-23230-1RB#49



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

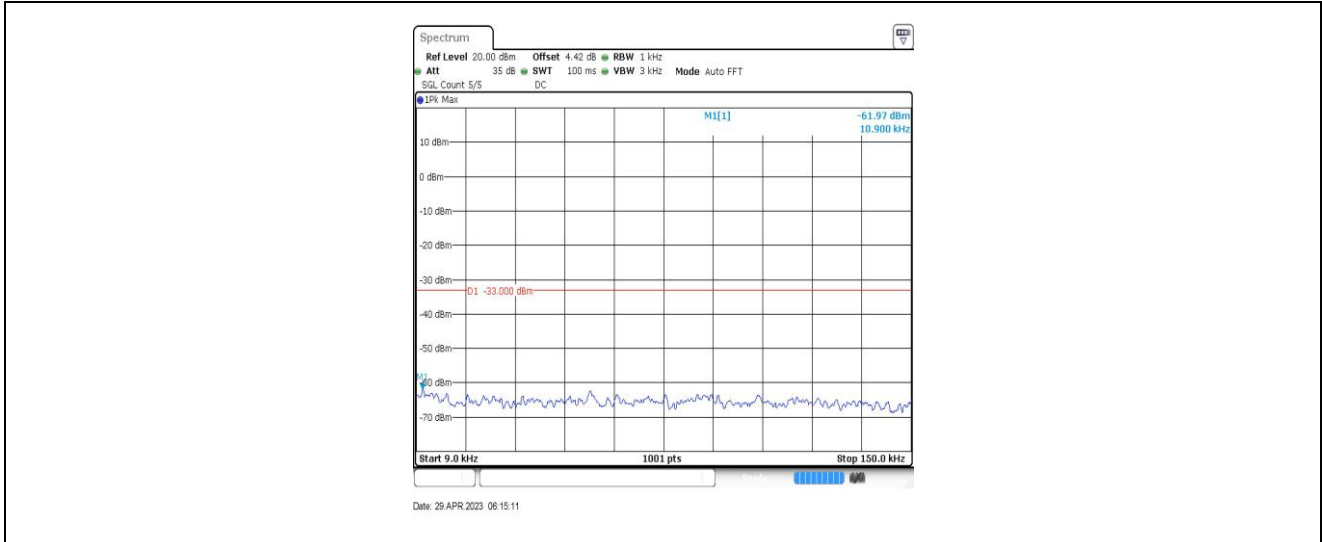
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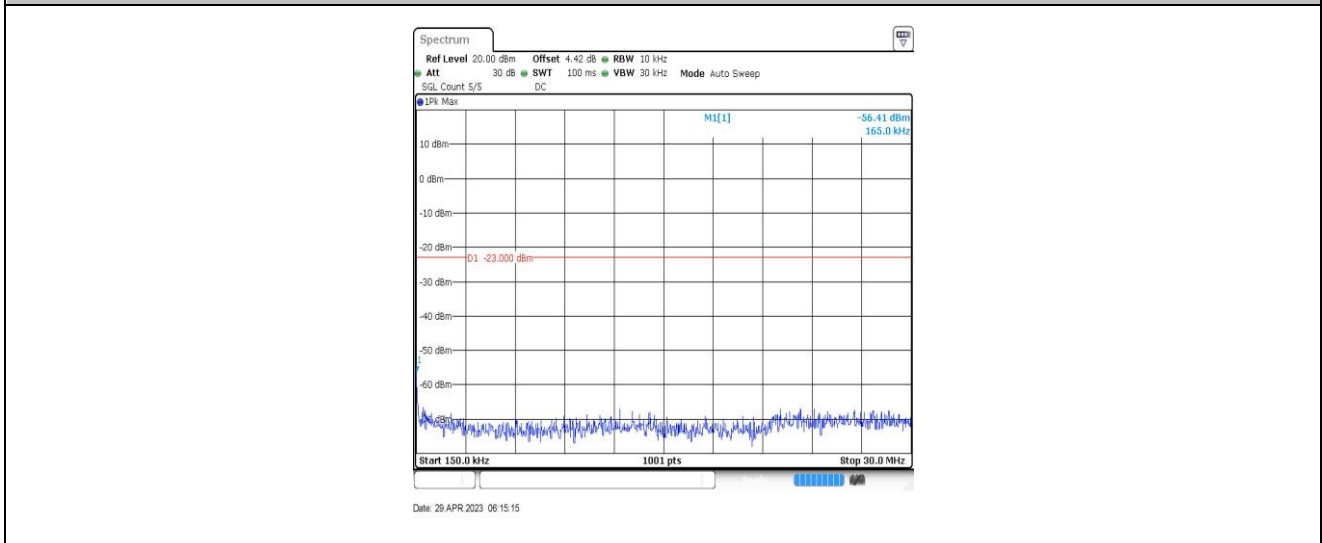
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## Conducted Spurious Emission

### Test Graphs



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



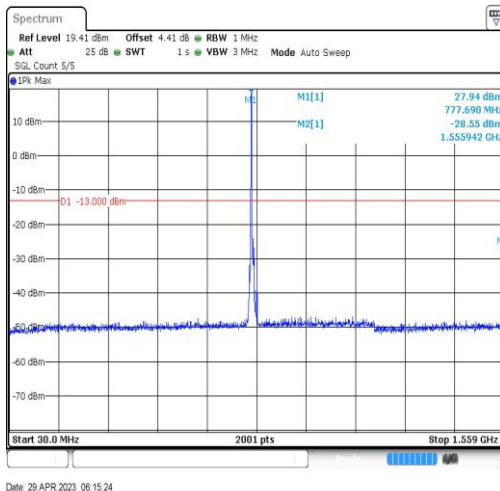
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



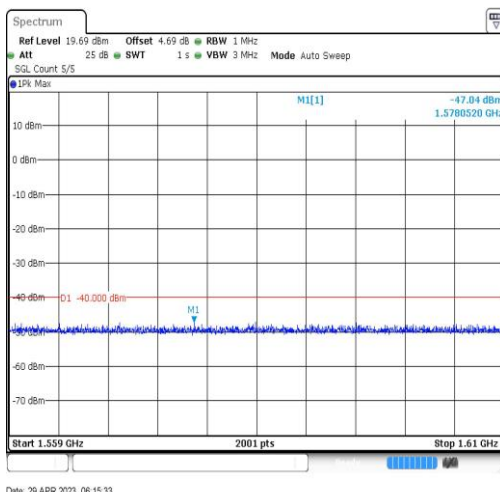
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1559MHz



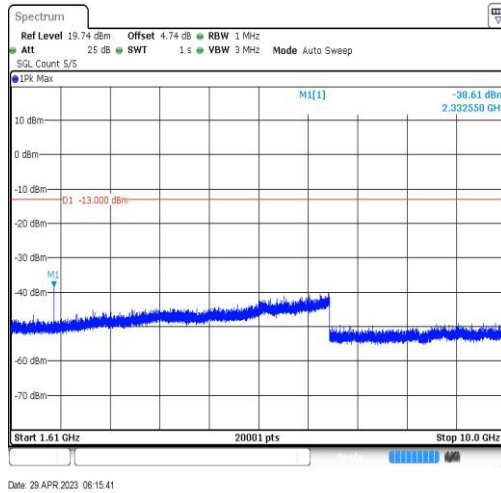
Band13-10MHz-QPSK-23230-1RB#0-Range4:1559~1610MHz



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Band13-10MHz-QPSK-23230-1RB#0-Range5:1610~10000MHz



## Field Strength of Spurious Radiation

Test Band = LTE\_13 ANT 13 \_10MHz\_TM1

Test Channel = 5MHz-LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1599.5749	50.89	-47.61	25.09	-66.89	-40.00	26.89	354	52	Horizontal
2	2331.6665	52.29	-46.63	27.42	-62.18	-13.00	49.18	245	144	Horizontal
3	3618.4809	51.86	-44.38	29.05	-58.73	-13.00	45.73	255	74	Horizontal
4	5146.6573	51.91	-42.53	31.78	-54.10	-13.00	41.10	239	53	Horizontal
5	6891.8446	51.29	-39.23	35.43	-47.77	-13.00	34.77	266	0	Horizontal
6	9444.1722	52.21	-35.66	37.48	-41.23	-13.00	28.23	246	293	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1594.3243	50.68	-47.61	25.00	-67.19	-40.00	27.19	284	141	Vertical
2	2331.9165	51.95	-46.63	27.42	-62.52	-13.00	49.52	266	290	Vertical
3	3157.1579	51.37	-44.96	28.66	-60.19	-13.00	47.19	169	358	Vertical
4	5071.0536	52.05	-42.58	31.56	-54.23	-13.00	41.23	259	214	Vertical
5	7697.9349	50.44	-37.59	36.79	-45.62	-13.00	32.62	242	129	Vertical
6	9469.7235	51.97	-35.82	37.62	-41.49	-13.00	28.49	261	204	Vertical



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**Test Band = LTE\_13 ANT 13 \_10MHz\_TM1**  
**Test Channel = 5MHz-MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.82	51.29	-47.61	24.38	-67.20	-40.00	27.20	354	255	Horizontal
2	2339.1674	52.87	-46.63	27.49	-61.53	-13.00	48.53	216	216	Horizontal
3	3159.258	51.77	-44.94	28.64	-59.79	-13.00	46.79	169	118	Horizontal
4	4425.9713	51.47	-43.29	30.10	-56.98	-13.00	43.98	264	192	Horizontal
5	6889.3945	51.06	-39.23	35.44	-47.99	-13.00	34.99	159	156	Horizontal
6	9495.9748	52.00	-35.98	37.78	-41.46	-13.00	28.46	364	322	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1596.3245	50.80	-47.61	25.03	-67.04	-40.00	27.04	197	218	Vertical
2	2350.4188	51.20	-46.62	27.60	-63.08	-13.00	50.08	264	68	Vertical
3	3607.2804	51.93	-44.36	28.96	-58.73	-13.00	45.73	136	151	Vertical
4	5674.4837	52.17	-41.22	32.50	-51.81	-13.00	38.81	254	130	Vertical
5	7697.9349	50.33	-37.59	36.79	-45.73	-13.00	32.73	110	135	Vertical
6	9478.1239	51.90	-35.87	37.67	-41.56	-13.00	28.56	231	172	Vertical



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**Test Band = LTE\_13 ANT 13 \_10MHz\_TM1**

**Test Channel = 5MHz-HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.5706	52.05	-47.61	24.46	-66.36	-40.00	26.36	361	358	Horizontal
2	2346.9184	52.09	-46.63	27.57	-62.23	-13.00	49.23	329	210	Horizontal
3	3639.832	51.66	-44.41	29.22	-58.79	-13.00	45.79	159	171	Horizontal
4	5691.6346	52.09	-41.17	32.50	-51.84	-13.00	38.84	164	295	Horizontal
5	7835.8418	50.82	-37.75	36.74	-45.45	-13.00	32.45	138	86	Horizontal
6	9450.8225	51.94	-35.70	37.50	-41.52	-13.00	28.52	214	166	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.8251	50.90	-47.61	25.11	-66.86	-40.00	26.86	259	129	Vertical
2	2342.4178	51.58	-46.63	27.52	-62.79	-13.00	49.79	296	294	Vertical
3	3620.581	51.98	-44.38	29.06	-58.60	-13.00	45.60	331	6	Vertical
4	5731.8866	52.06	-41.23	32.50	-51.93	-13.00	38.93	346	215	Vertical
5	7704.5852	50.64	-37.58	36.76	-45.44	-13.00	32.44	216	118	Vertical
6	9448.0224	51.79	-35.68	37.49	-41.66	-13.00	28.66	226	155	Vertical



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**Test Band = LTE\_13 ANT 13 \_10MHz\_TM1**

**Test Channel = 10MHz-MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.8251	50.76	-47.61	25.11	-67.00	-40.00	27.00	183	200	Horizontal
2	2332.9166	51.99	-46.63	27.43	-62.47	-13.00	49.47	152	208	Horizontal
3	3900.945	50.98	-44.20	29.70	-58.78	-13.00	45.78	321	103	Horizontal
4	5702.4851	52.18	-41.15	32.50	-51.73	-13.00	38.73	260	285	Horizontal
5	7472.1736	51.26	-38.29	36.84	-45.45	-13.00	32.45	321	194	Horizontal
6	9424.5712	51.95	-35.53	37.40	-41.44	-13.00	28.44	369	205	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1597.3247	50.71	-47.61	25.05	-67.11	-40.00	27.11	259	63	Vertical
2	2099.8875	51.20	-46.87	26.80	-64.13	-13.00	51.13	242	298	Vertical
3	3165.5583	51.31	-44.89	28.61	-60.23	-13.00	47.23	135	102	Vertical
4	5084.7042	52.09	-42.55	31.53	-54.19	-13.00	41.19	366	102	Vertical
5	7483.7242	50.80	-38.29	36.87	-45.88	-13.00	32.88	249	149	Vertical
6	9519.426	51.79	-35.94	37.80	-41.61	-13.00	28.61	294	170	Vertical



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**Test Band = LTE\_13 ANT 31 \_10MHz\_TM1**

**Test Channel = 5MHz-LCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1603.0754	50.62	-47.60	25.12	-67.12	-40.00	27.12	156	168	Horizontal
2	2331.9165	51.73	-46.63	27.42	-62.74	-13.00	49.74	312	241	Horizontal
3	3957.6479	51.21	-44.18	29.88	-58.35	-13.00	45.35	205	48	Horizontal
4	5686.7343	52.30	-41.18	32.50	-51.64	-13.00	38.64	197	328	Horizontal
5	7844.2422	51.01	-37.71	36.78	-45.18	-13.00	32.18	138	259	Horizontal
6	9467.2734	52.13	-35.80	37.60	-41.33	-13.00	28.33	280	133	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1596.5746	50.82	-47.61	25.04	-67.01	-40.00	27.01	254	294	Vertical
2	1992.6241	51.20	-46.94	26.35	-64.65	-13.00	51.65	330	275	Vertical
3	3172.9086	51.26	-44.82	28.56	-60.26	-13.00	47.26	243	54	Vertical
4	5168.7084	51.76	-42.54	31.84	-54.20	-13.00	41.20	219	0	Vertical
5	6851.2426	51.23	-39.35	35.60	-47.78	-13.00	34.78	160	207	Vertical
6	9445.2223	52.07	-35.66	37.48	-41.37	-13.00	28.37	365	264	Vertical



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**Test Band = LTE\_13 ANT 31 \_10MHz\_TM1**

**Test Channel = 5MHz-MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1604.3255	50.74	-47.60	25.13	-66.99	-40.00	26.99	149	31	Horizontal
2	2352.169	51.24	-46.62	27.59	-63.05	-13.00	50.05	101	87	Horizontal
3	3167.6584	51.52	-44.87	28.59	-60.02	-13.00	47.02	227	348	Horizontal
4	4513.1257	51.67	-43.00	29.63	-56.96	-13.00	43.96	123	224	Horizontal
5	6565.6283	50.84	-40.46	34.59	-50.29	-13.00	37.29	201	291	Horizontal
6	9466.2233	52.10	-35.80	37.60	-41.36	-13.00	28.36	235	29	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1598.8249	50.81	-47.61	25.08	-66.98	-40.00	26.98	155	5	Vertical
2	2215.902	51.23	-46.95	26.87	-64.11	-13.00	51.11	130	92	Vertical
3	3161.7081	51.55	-44.92	28.63	-60.00	-13.00	47.00	289	202	Vertical
4	5434.0217	51.55	-41.94	32.30	-53.35	-13.00	40.35	307	317	Vertical
5	7695.4848	50.53	-37.62	36.78	-45.57	-13.00	32.57	255	343	Vertical
6	9466.2233	51.97	-35.80	37.60	-41.49	-13.00	28.49	346	138	Vertical



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**Test Band = LTE\_13 ANT 31 \_10MHz\_TM1**  
**Test Channel = 5MHz-HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1600.075	50.72	-47.61	25.10	-67.05	-40.00	27.05	197	2	Horizontal
2	2082.3853	51.43	-46.88	26.62	-64.09	-13.00	51.09	288	217	Horizontal
3	3194.2597	51.35	-44.65	28.43	-60.13	-13.00	47.13	164	33	Horizontal
4	5131.6066	52.13	-42.53	31.69	-53.97	-13.00	40.97	395	33	Horizontal
5	7431.9216	50.95	-38.28	36.76	-45.83	-13.00	32.83	266	290	Horizontal
6	9450.4725	52.29	-35.70	37.50	-41.17	-13.00	28.17	234	6	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1595.5744	50.92	-47.61	25.02	-66.93	-40.00	26.93	269	129	Vertical
2	2093.8867	50.92	-46.87	26.74	-64.47	-13.00	51.47	381	338	Vertical
3	3142.4571	51.57	-45.08	28.73	-60.04	-13.00	47.04	152	33	Vertical
4	5200.91	51.66	-42.55	31.89	-54.26	-13.00	41.26	261	343	Vertical
5	7417.5709	51.16	-38.28	36.74	-45.64	-13.00	32.64	166	43	Vertical
6	9474.9737	52.09	-35.85	37.65	-41.37	-13.00	28.37	213	69	Vertical



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**Test Band = LTE\_13 ANT 31 \_10MHz\_TM1**

**Test Channel = 10MHz-MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1590.8239	50.75	-47.61	24.93	-67.19	-40.00	27.19	236	229	Horizontal
2	2413.6767	52.55	-46.62	27.45	-61.88	-13.00	48.88	266	43	Horizontal
3	3619.531	51.95	-44.38	29.06	-58.63	-13.00	45.63	213	76	Horizontal
4	5051.4526	52.09	-42.62	31.60	-54.19	-13.00	41.19	261	60	Horizontal
5	7696.8848	50.26	-37.60	36.79	-45.81	-13.00	32.81	201	65	Horizontal
6	9420.021	51.77	-35.51	37.38	-41.62	-13.00	28.62	239	275	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1584.073	50.85	-47.61	24.81	-67.21	-40.00	27.21	182	157	Vertical
2	2333.1666	51.15	-46.63	27.43	-63.31	-13.00	50.31	115	354	Vertical
3	3650.3325	51.75	-44.43	29.30	-58.64	-13.00	45.64	203	259	Vertical
4	5849.8425	51.98	-41.27	32.60	-51.95	-13.00	38.95	266	338	Vertical
5	7452.9226	51.12	-38.29	36.81	-45.62	-13.00	32.62	112	107	Vertical
6	9470.0735	51.85	-35.82	37.62	-41.61	-13.00	28.61	294	306	Vertical



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**Test on the worst case:**

**Test Band = \_LTE Band 13 -5M ANT31\_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	1597.3247	29.20	-19.31	25.81	-59.56	-40.00	24.56	Horizontal
2	2684.7106	31.22	-17.62	28.44	-53.22	-13.00	45.22	Horizontal
3	3644.7322	57.69	-49.19	30.38	-56.38	-13.00	48.38	Horizontal
4	5871.1936	56.17	-45.73	34.18	-50.64	-13.00	42.64	Horizontal
5	8522.9261	54.63	-42.65	38.45	-44.83	-13.00	36.83	Horizontal
6	9450.2361	52.99	-41.34	39.00	-44.61	-13.00	36.61	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1567.0709	24.07	-19.25	25.87	-64.57	-40.00	24.57	Vertical
2	2778.2223	25.81	-17.04	28.64	-57.85	-13.00	44.85	Vertical
3	3613.5807	53.98	-49.50	30.25	-60.53	-13.00	47.53	Vertical
4	5687.0844	51.21	-44.85	33.45	-55.45	-13.00	42.45	Vertical
5	8546.7273	49.36	-42.30	39.02	-49.18	-13.00	36.18	Vertical
6	9450.3245	47.72	-41.34	39.00	-49.88	-13.00	36.88	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)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	2.10	0.002685	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	0.60	0.000767	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.00	0.000000	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	0.40	0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.80	-0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	2.70	0.003453	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.50	-0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.30	0.001662	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-2.00	-0.002558	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	1.30	0.001662	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.80	0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.10	0.001407	PASS

---End of Attachment---



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