

Report No.: SEWM2304000115RG04

Rev.: 01

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# Appendix B.8

## LTE Band 30



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.84	21.62	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.97	21.75	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.78	21.56	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.91	20.69	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.88	21.66	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.98	21.76	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.82	21.60	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.87	20.65	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.83	21.61	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.97	21.75	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.80	21.58	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.87	20.65	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.01	20.79	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.20	20.98	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.00	20.78	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.90	19.68	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.99	20.77	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.13	20.91	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.93	20.71	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.88	19.66	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.96	20.74	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.09	20.87	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.00	20.78	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.84	19.62	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.95	19.73	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.10	19.88	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.91	19.69	23.98	PASS



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Band30	5MHz	64QAM	27685	25RB#0	19.94	18.72	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.96	19.74	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.04	19.82	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.84	19.62	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.87	18.65	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.86	19.64	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.06	19.84	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.86	19.64	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.88	18.66	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.93	21.71	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.93	21.71	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.83	21.61	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.87	20.65	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.08	20.86	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.13	20.91	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.96	20.74	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.86	19.64	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	21.03	19.81	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	21.08	19.86	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.88	19.66	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.86	18.64	23.98	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	4.06	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	5.10	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	5.04	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.94	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	5.48	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.28	13	PASS



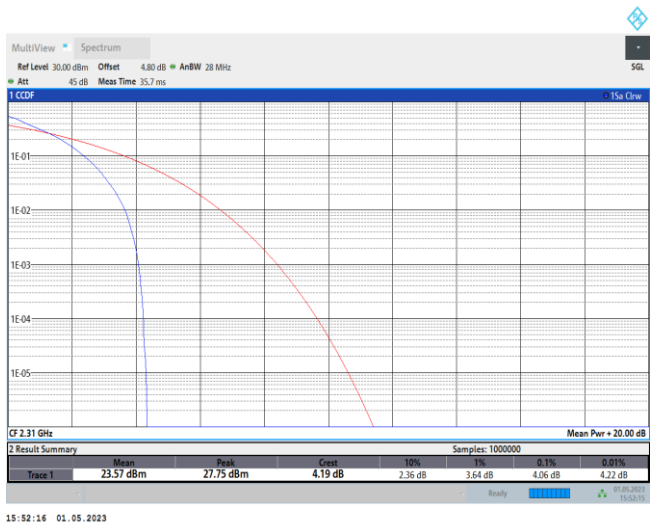
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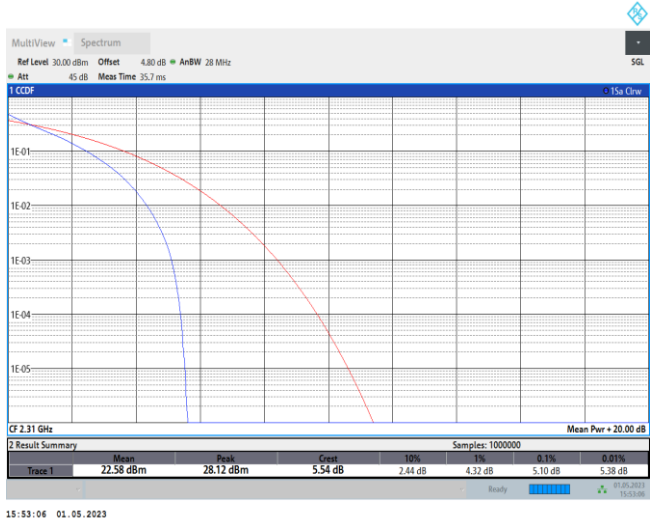
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Test Graphs

Band30-10MHz-QPSK-27710-1RB#0



Band30-10MHz-QPSK-27710-50RB#0



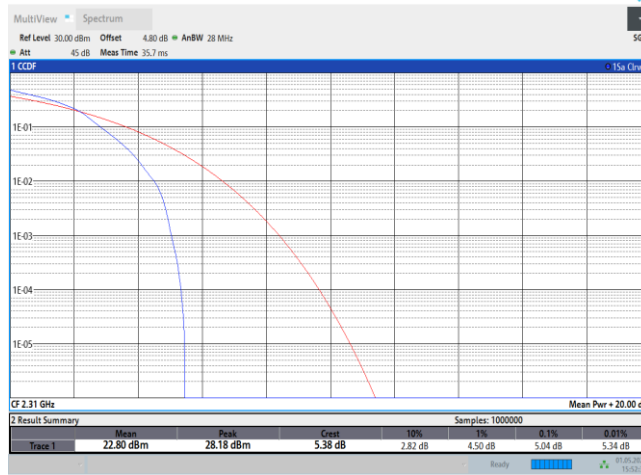
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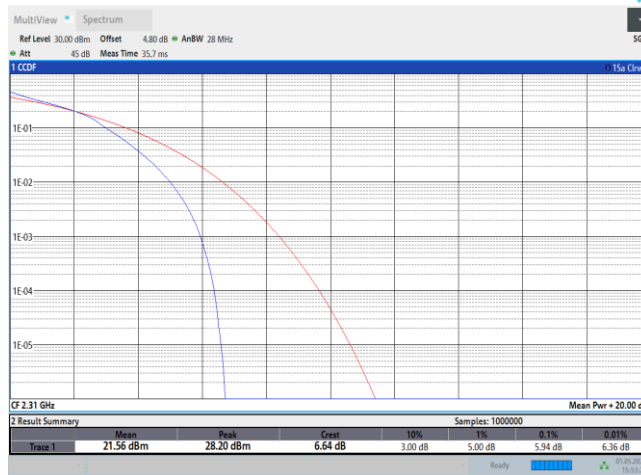


Band30-10MHz-16QAM-27710-1RB#0



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Band30-10MHz-16QAM-27710-50RB#0



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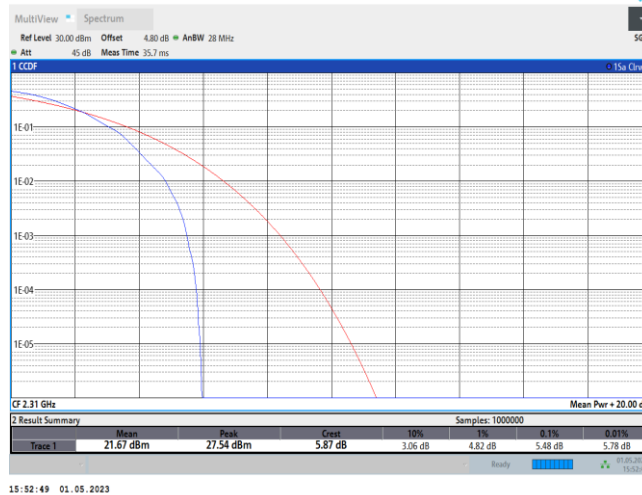


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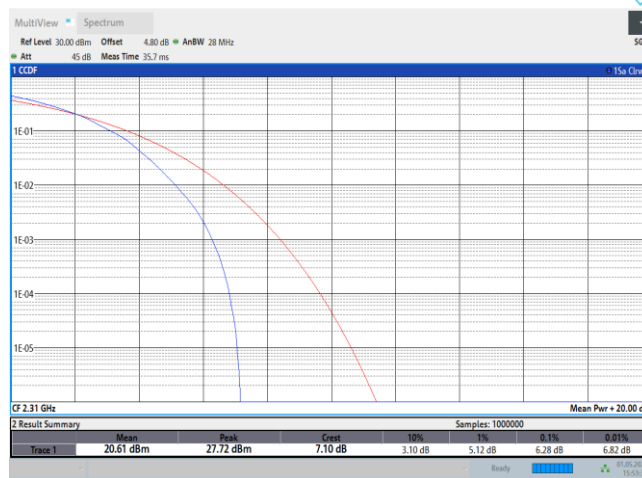
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Band30-10MHz-64QAM-27710-1RB#0



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Band30-10MHz-64QAM-27710-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band30	10MHz	QPSK	27710	50RB#0	PASS	PASS
Band30	10MHz	16QAM	27710	50RB#0	PASS	PASS
Band30	10MHz	64QAM	27710	50RB#0	PASS	PASS



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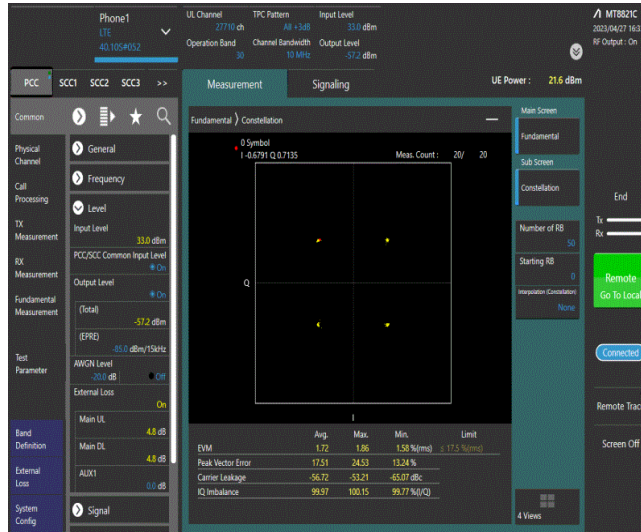
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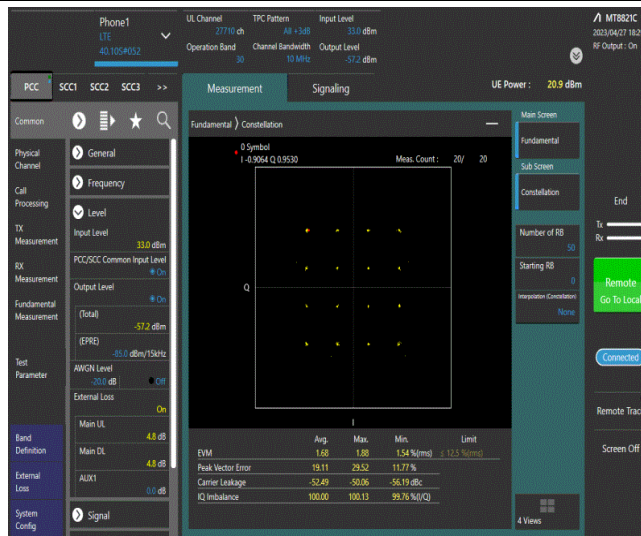


Test Graphs

Band30-10MHz-QPSK-27710-50RB#0

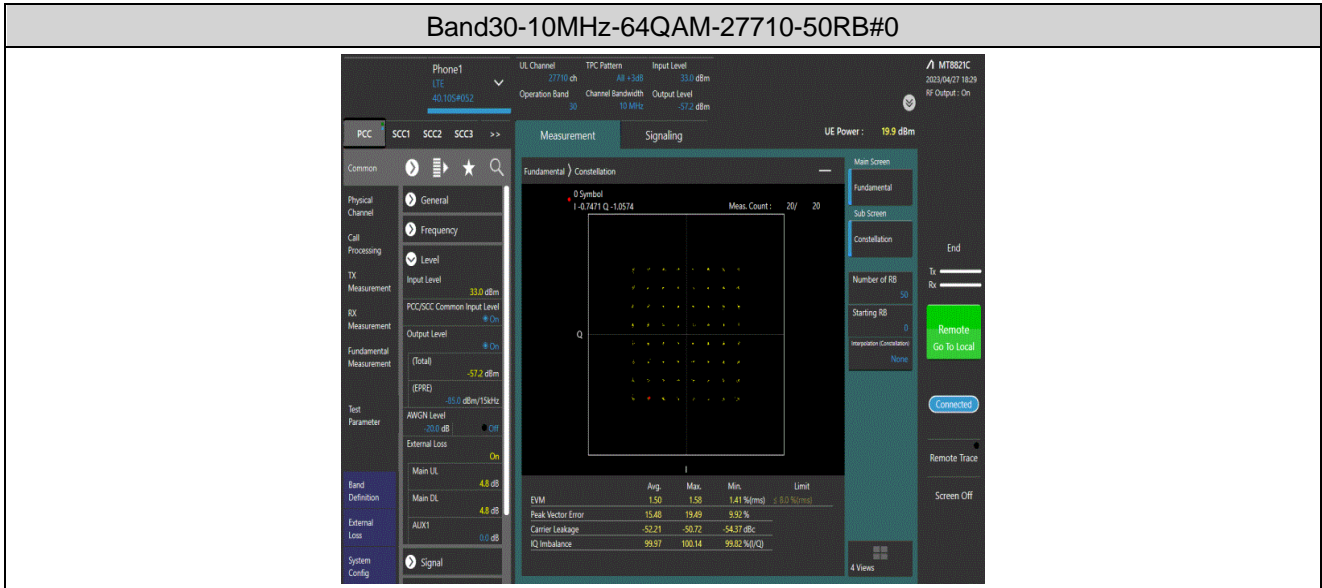


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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.471	4.81	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.491	4.84	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.494	4.89	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.487	4.87	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.504	4.84	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.486	4.88	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.486	4.87	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.484	4.81	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.474	4.79	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.965	9.60	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.960	9.67	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.956	9.67	PASS



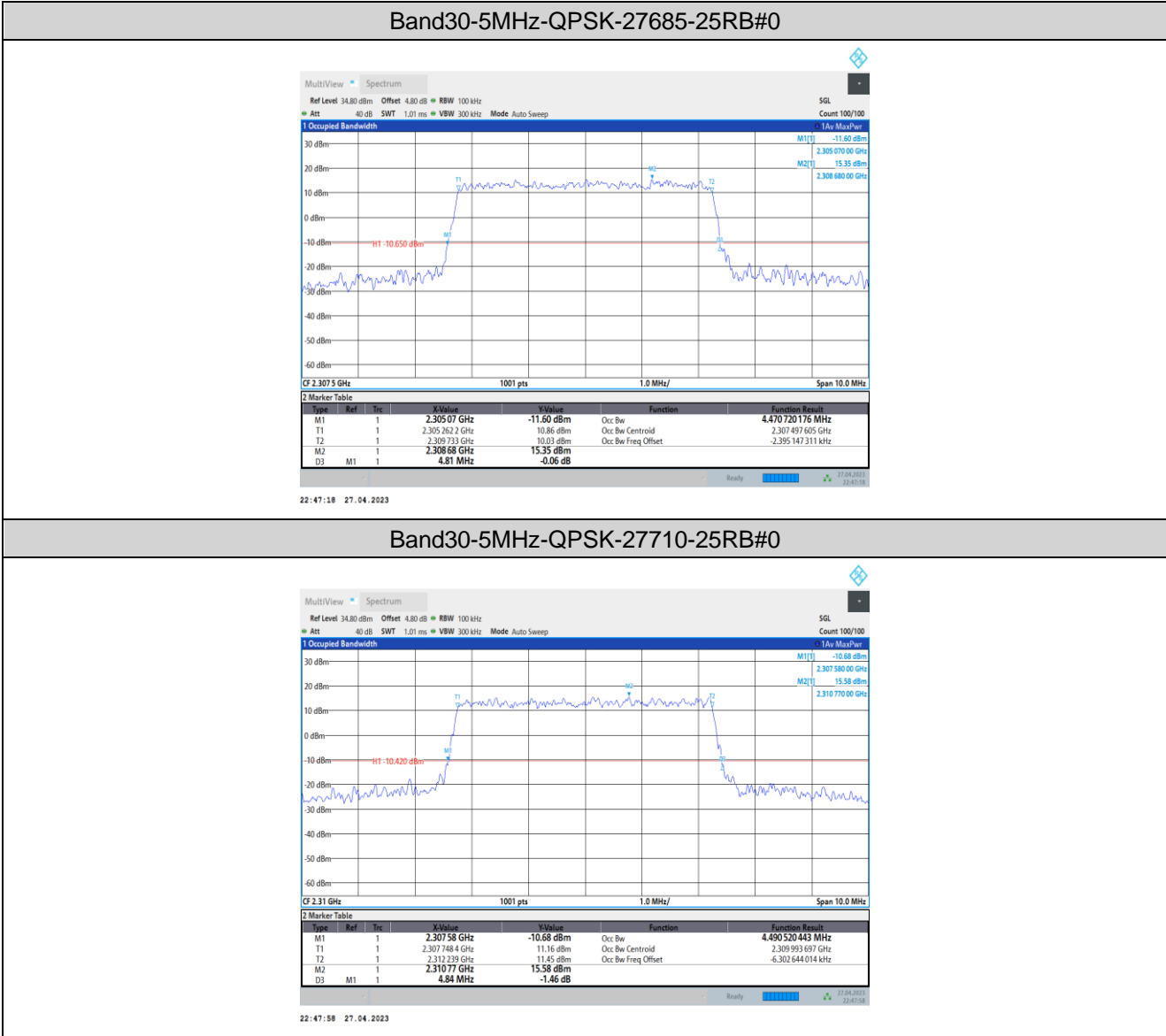
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Test Graphs



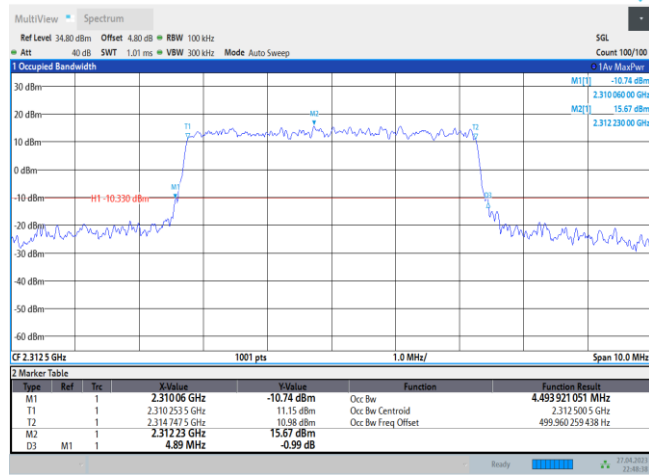
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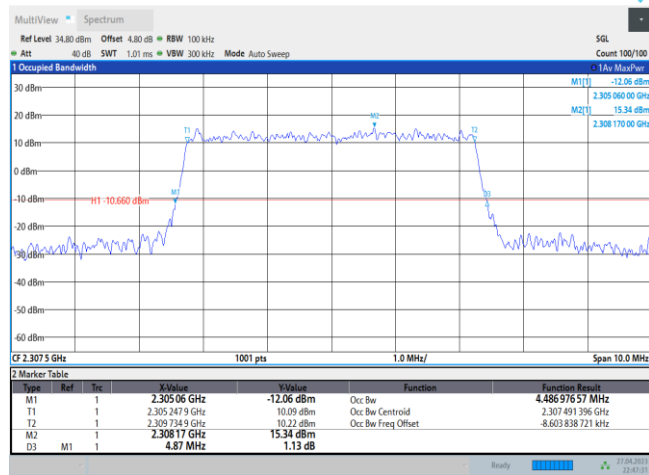
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Band30-5MHz-QPSK-27735-25RB#0



22:48:39 27.04.2023

Band30-5MHz-16QAM-27685-25RB#0



22:47:31 27.04.2023

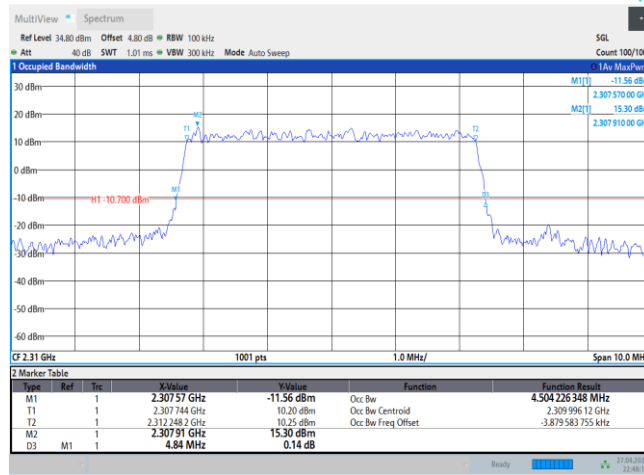


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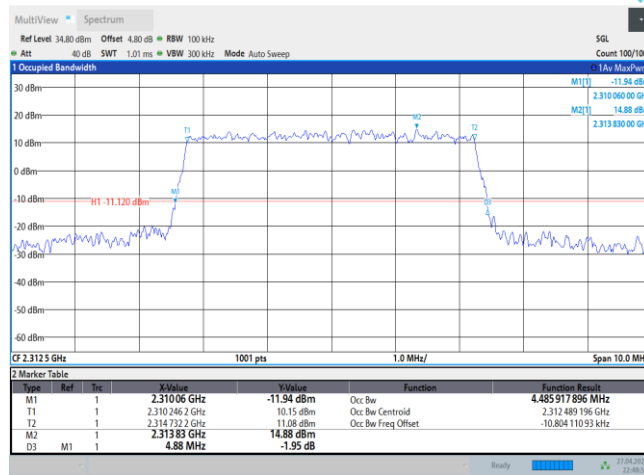


Band30-5MHz-16QAM-27710-25RB#0



22:48:12 27.04.2023

Band30-5MHz-16QAM-27735-25RB#0



22:48:52 27.04.2023

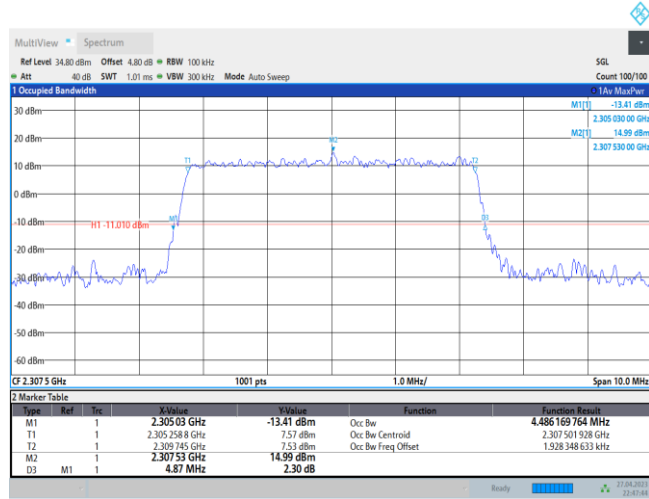


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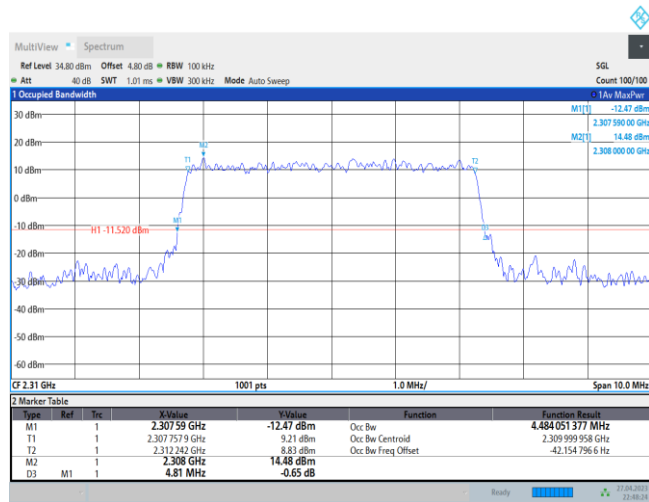
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Band30-5MHz-64QAM-27685-25RB#0



22:47:45 27.04.2023

Band30-5MHz-64QAM-27710-25RB#0



22:48:25 27.04.2023

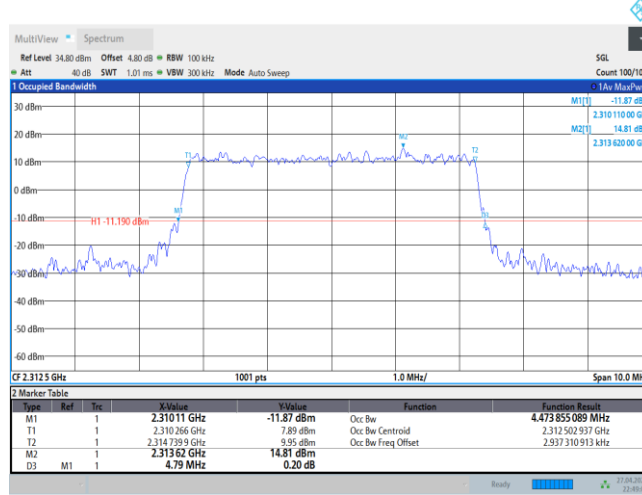


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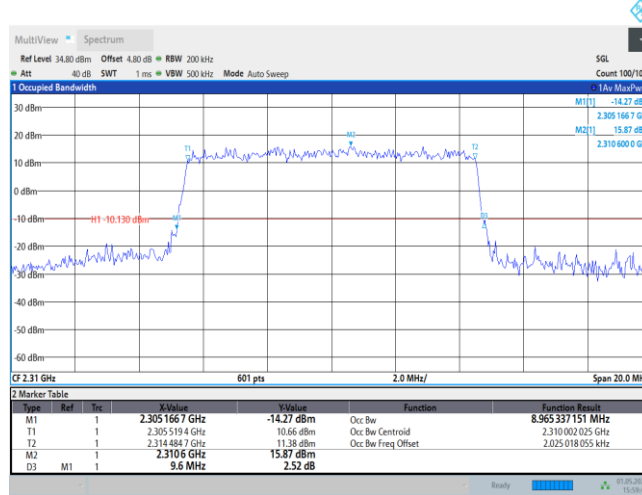
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Band30-5MHz-64QAM-27735-25RB#0



22:49:06 27.04.2023

Band30-10MHz-QPSK-27710-50RB#0



15:59:47 01.05.2023



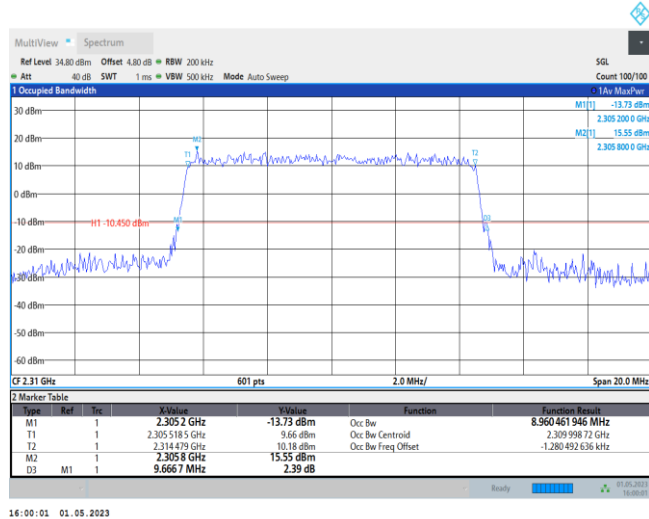
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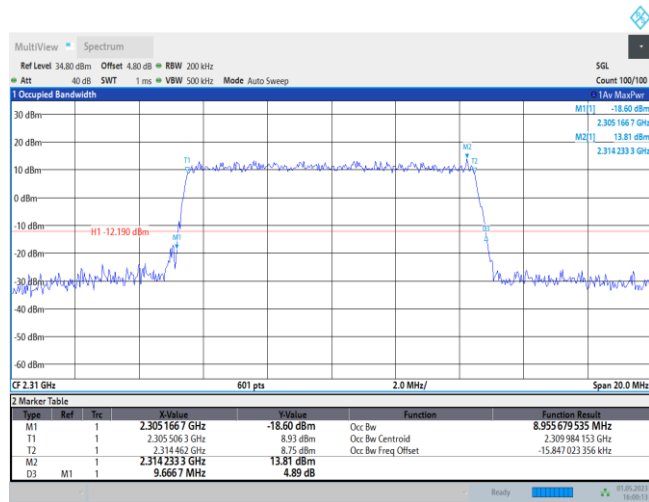
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Band30-10MHz-16QAM-27710-50RB#0



16:00:01 01.05.2023

Band30-10MHz-64QAM-27710-50RB#0



16:00:14 01.05.2023



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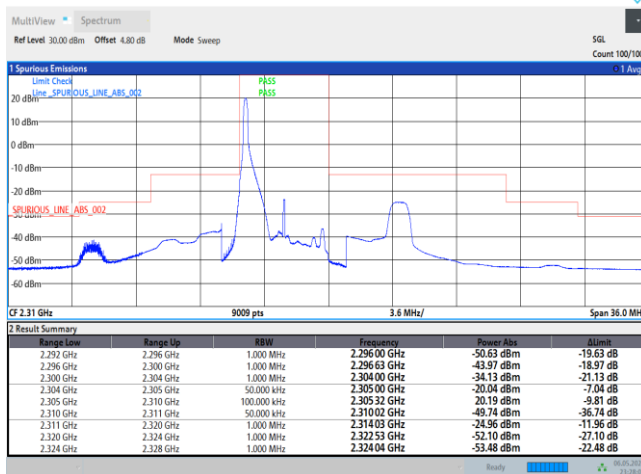
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## Band Edge

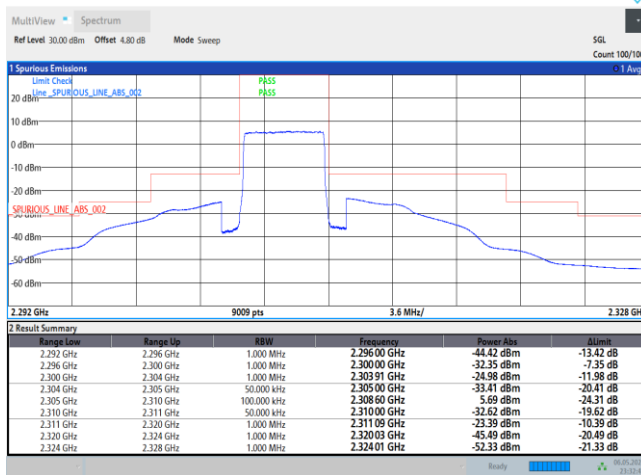
## Test Graphs

Band30-5MHz-QPSK-27685-1RB#0



23:28:01 06.05.2023

Band30-5MHz-QPSK-27685-25RB#0



23:32:47 06.05.2023

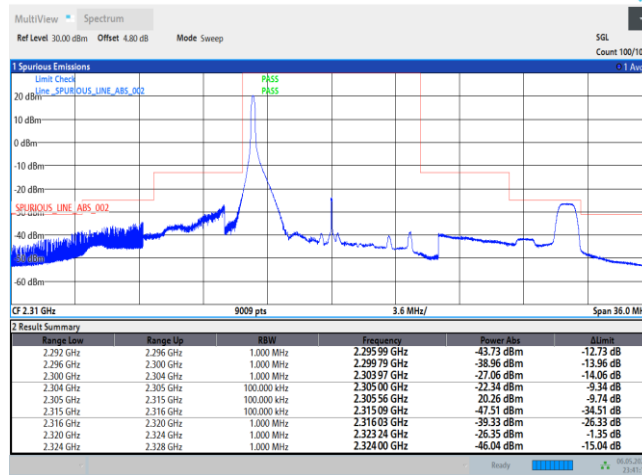


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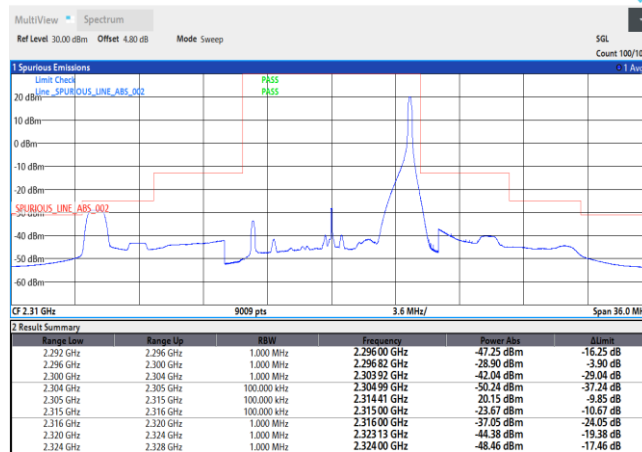


Band30-10MHz-QPSK-27710-1RB#0



23:41:13 06.05.2023

Band30-10MHz-QPSK-27710-1RB#49



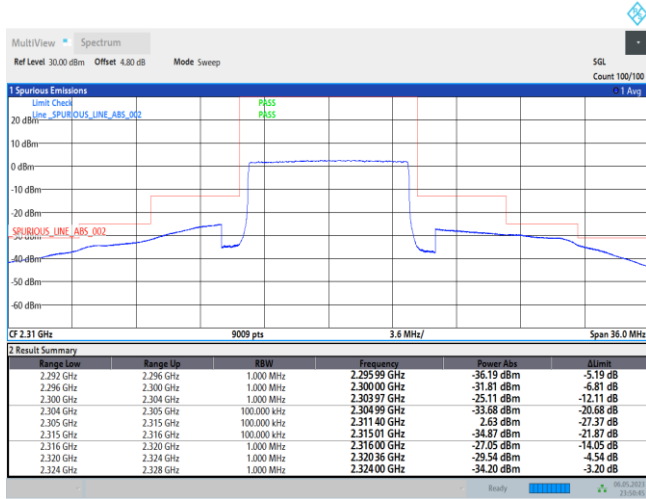
23:45:59 06.05.2023



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23:50:45 06.05.2023



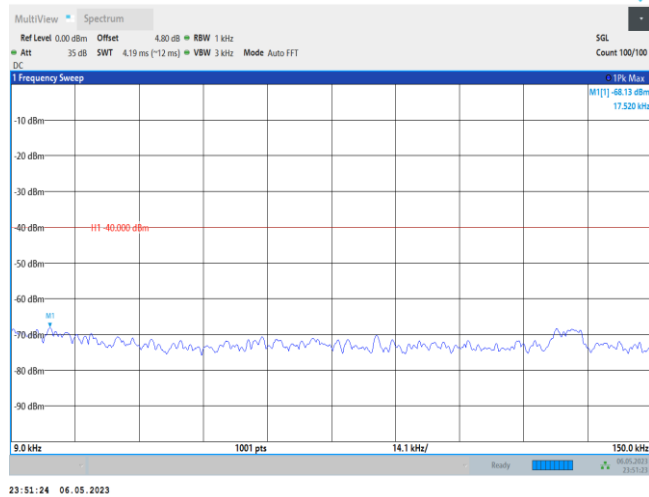
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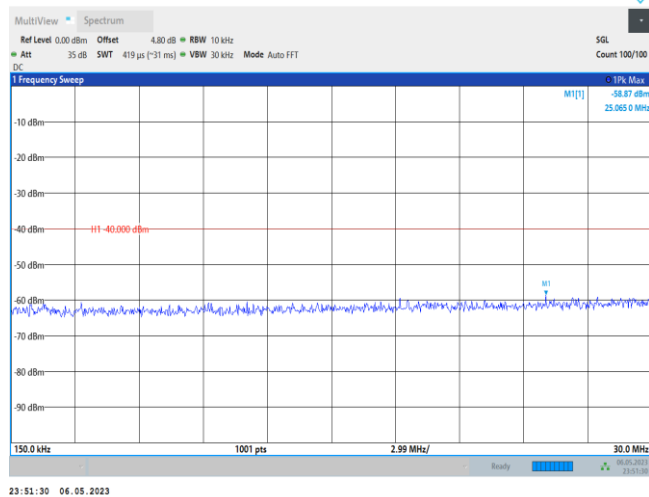
## Conducted Spurious Emission

### Test Graphs

Band30-10MHz-QPSK-27710-1RB#0-Range1:0.009~0.15MHz



Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz

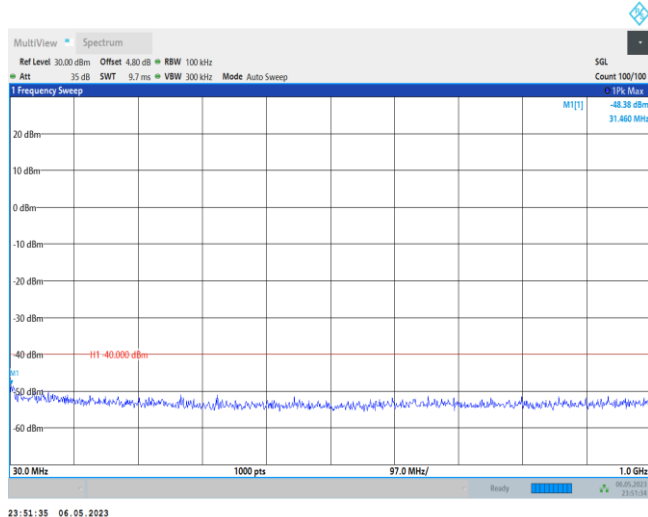


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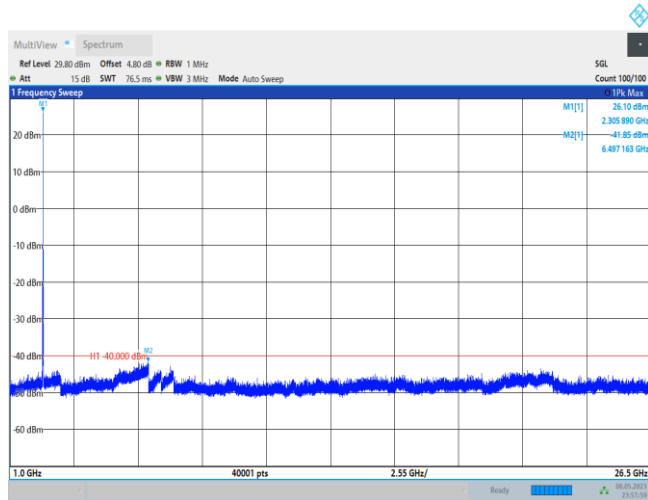
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



23:51:35 06.05.2023

Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26500MHz



23:51:59 06.05.2023



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### Field Strength of Spurious Radiation

Test Band = LTE B30 \_10MHz \_ TM1  
 Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611	60.14	-45.66	31.74	-49.04	-40.00	9.04	155	120	Horizontal
2	6916.5	46.09	-44.01	35.98	-57.20	-40.00	17.20	214	301	Horizontal
3	9222.3600	37.59	-40.24	38.36	-59.56	-40.00	19.56	178	151	Horizontal
4	11527.9500	34.81	-37.19	38.97	-58.68	-40.00	18.68	126	256	Horizontal
5	13833.5400	34.76	-36.08	39.99	-56.59	-40.00	16.59	216	357	Horizontal
6	16139.1300	36.16	-34.58	37.69	-55.99	-40.00	15.99	177	316	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	4611	63.11	-45.66	31.74	-46.07	-40.00	6.07	123	179	Vertical
2	6916.5	51.29	-44.01	35.98	-52.00	-40.00	12.00	147	73	Vertical
3	9222	42.11	-40.24	38.36	-55.04	-40.00	15.04	165	344	Vertical
4	11527.9500	35.14	-37.19	38.97	-58.35	-40.00	18.35	177	360	Vertical
5	13833.5400	35.77	-36.08	39.99	-55.58	-40.00	15.58	213	358	Vertical
6	16139.1300	35.96	-34.58	37.69	-56.19	-40.00	16.19	178	91	Vertical



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**Test Band = LTE B30 \_5MHz \_ TM1**  
**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.6800	61.75	-45.66	31.74	-47.43	-40.00	7.43	106	148	Horizontal
2	6916.0200	49.05	-44.01	35.98	-54.24	-40.00	14.24	178	14	Horizontal
3	9221.3600	37.30	-40.24	38.36	-59.85	-40.00	19.85	123	287	Horizontal
4	11526.7000	34.43	-37.20	38.97	-59.06	-40.00	19.06	154	148	Horizontal
5	13832.0400	34.63	-36.09	39.99	-56.73	-40.00	16.73	163	359	Horizontal
6	16137.3800	36.46	-34.58	37.69	-55.68	-40.00	15.68	214	360	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	4610.6800	60.89	-45.66	31.74	-48.29	-40.00	8.29	215	225	Vertical
2	6915.75	47.40	-44.01	35.98	-55.89	-40.00	15.89	136	360	Vertical
3	9221.25	43.97	-40.24	38.36	-53.18	-40.00	13.18	196	134	Vertical
4	11526.7000	35.05	-37.20	38.97	-58.44	-40.00	18.44	147	352	Vertical
5	13832.0400	34.81	-36.09	39.99	-56.55	-40.00	16.55	123	300	Vertical
6	16137.3800	35.75	-34.58	37.69	-56.39	-40.00	16.39	156	3	Vertical



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**Test Band = LTE B30 \_5MHz \_ TM1**  
**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.5	62.52	-45.66	31.76	-46.64	-40.00	6.64	174	135	Horizontal
2	6923.25	48.67	-43.97	35.99	-54.57	-40.00	14.57	212	316	Horizontal
3	9231.3600	38.02	-40.24	38.36	-59.12	-40.00	19.12	163	149	Horizontal
4	11539.2000	34.94	-37.15	38.96	-58.51	-40.00	18.51	178	14	Horizontal
5	13847.0400	34.70	-35.95	40.00	-56.51	-40.00	16.51	169	298	Horizontal
6	16154.8800	36.14	-34.60	37.67	-56.04	-40.00	16.04	147	134	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	4615.5	61.87	-45.66	31.76	-47.29	-40.00	7.29	145	210	Vertical
2	6923.25	50.14	-43.97	35.99	-53.10	-40.00	13.10	126	74	Vertical
3	9231.3600	40.30	-40.24	38.36	-56.84	-40.00	16.84	175	163	Vertical
4	11539.2000	35.10	-37.15	38.96	-58.35	-40.00	18.35	163	360	Vertical
5	13847.0400	34.89	-35.95	40.00	-56.32	-40.00	16.32	214	208	Vertical
6	16154.8800	36.43	-34.60	37.67	-55.75	-40.00	15.75	159	270	Vertical



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**Test Band = LTE B30 \_5MHz \_ TM1**  
**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.6800	62.79	-45.66	31.77	-46.35	-40.00	6.35	217	150	Horizontal
2	6930.75	50.36	-43.93	36.00	-52.83	-40.00	12.83	148	14	Horizontal
3	9241.3200	39.00	-40.24	38.37	-58.13	-40.00	18.13	196	149	Horizontal
4	11551.7000	35.46	-37.10	38.94	-57.95	-40.00	17.95	165	59	Horizontal
5	13862.0400	34.48	-35.81	40.02	-56.57	-40.00	16.57	210	194	Horizontal
6	16172.3800	36.01	-34.61	37.65	-56.21	-40.00	16.21	149	357	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	4620.6800	63.02	-45.66	31.77	-46.12	-40.00	6.12	214	252	Vertical
2	6931.0200	48.42	-43.93	36.00	-54.77	-40.00	14.77	163	59	Vertical
3	9241.3200	45.05	-40.24	38.37	-52.08	-40.00	12.08	210	121	Vertical
4	11551.7000	35.53	-37.10	38.94	-57.88	-40.00	17.88	178	149	Vertical
5	13862.0400	34.43	-35.81	40.02	-56.62	-40.00	16.62	163	316	Vertical
6	16172.3800	36.25	-34.61	37.65	-55.97	-40.00	15.97	198	192	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
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-0.80	-0.000346	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-16.30	-0.007056	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-0.60	-0.000260	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-10.80	-0.004675	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-11.50	-0.004978	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-7.20	-0.003117	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-9.70	-0.004199	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-15.30	-0.006623	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	0.50	0.000266	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	1.50	0.000797	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	0.40	0.000212	PASS

---End of Attachment---



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