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# Appendix B.11

## 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	23.02	17.32	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.83	17.13	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.85	17.15	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.9	16.2	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.77	17.07	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.68	16.98	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.75	17.05	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.92	16.22	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.66	16.96	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.7	17	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.62	16.92	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.78	16.08	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.05	16.35	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.03	16.33	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.05	16.35	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.93	15.23	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.98	16.28	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22	16.3	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.93	16.23	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.88	15.18	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.88	16.18	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.94	16.24	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.9	16.2	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.81	15.11	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.72	17.02	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.57	16.87	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.74	17.04	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.89	16.19	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.9	16.2	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.8	16.1	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.87	16.17	23.98	PASS



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Band30	10MHz	16QAM	27710	50RB#0	20.91	15.21	23.98	PASS
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## EIRP Density Result

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.54	16.84	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.87	17.17	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.20	15.5	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.74	16.04	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.15	16.45	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.20	14.5	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.00	17.3	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.88	17.18	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.22	15.52	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.26	16.56	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#49	22.25	16.55	23.98	PASS
Band30	5MHz	16QAM	27710	50RB#0	20.35	14.65	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.90	17.2	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.80	17.1	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.25	15.55	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.40	16.7	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.32	16.62	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.30	14.6	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.38	16.68	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.94	17.24	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.78	14.08	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.70	16	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.13	16.43	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	18.76	13.06	23.98	PASS



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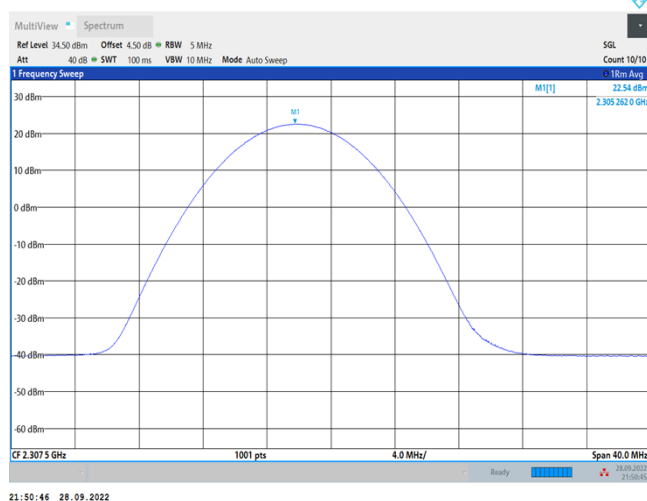
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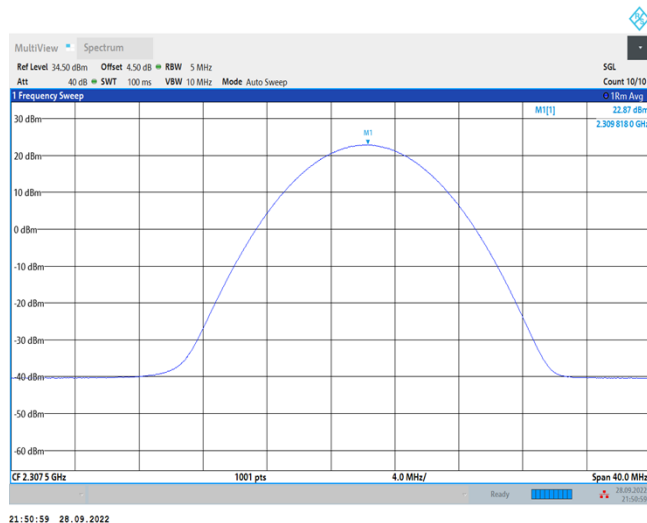
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### Test plots

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



Band30-5MHz-QPSK-27685-1RB#24



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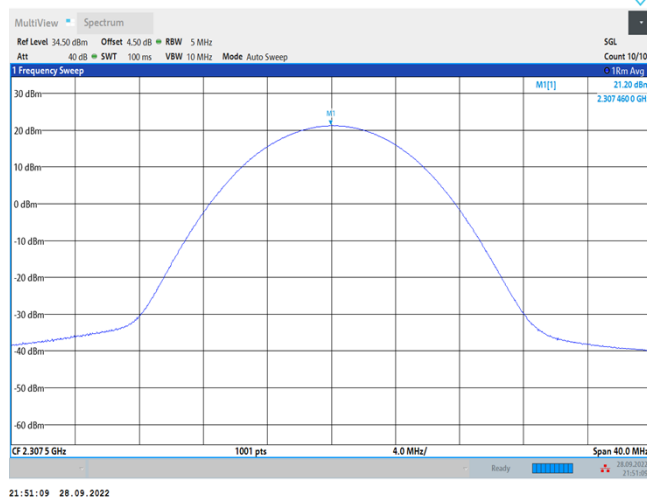
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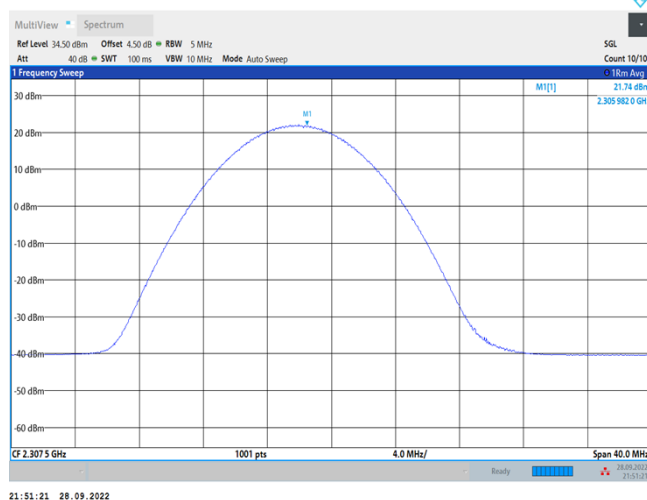
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### Band30-5MHz-QPSK-27685-25RB#0



### Band30-5MHz-16QAM-27685-1RB#0



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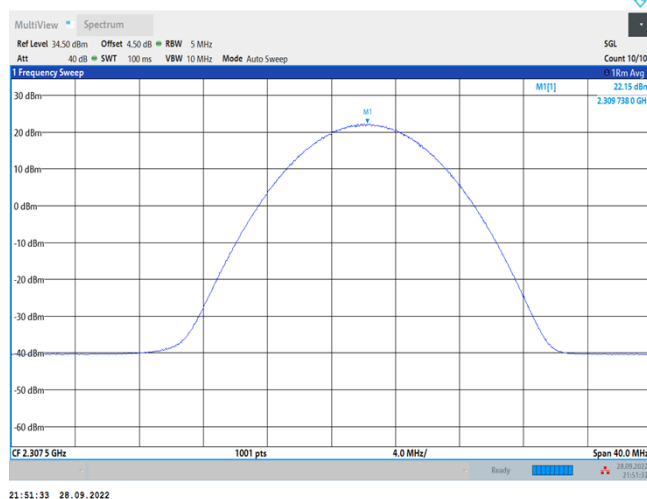


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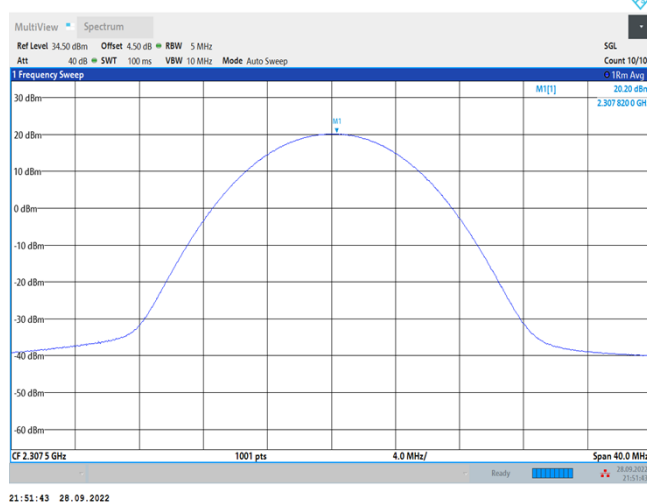
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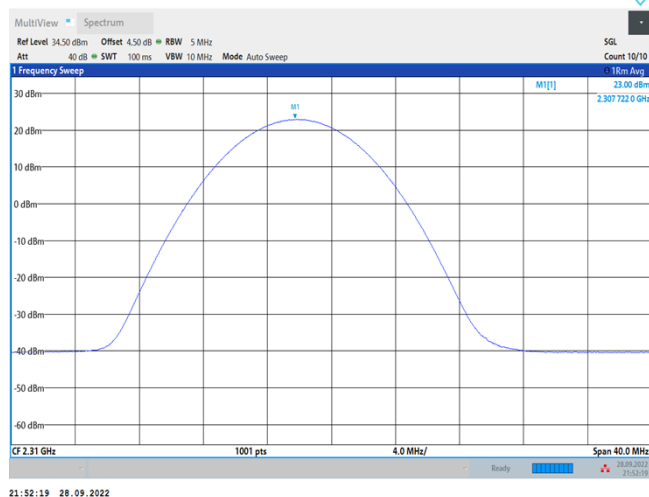
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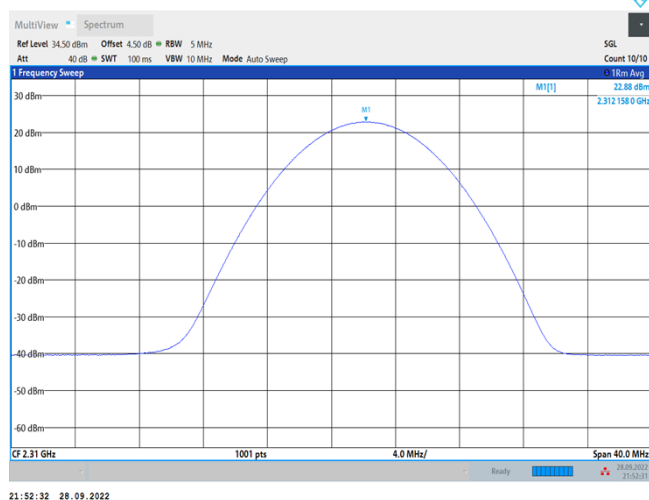
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### Band30-5MHz-QPSK -27710-1RB#0



### Band30-5MHz-QPSK -27710-1RB#24



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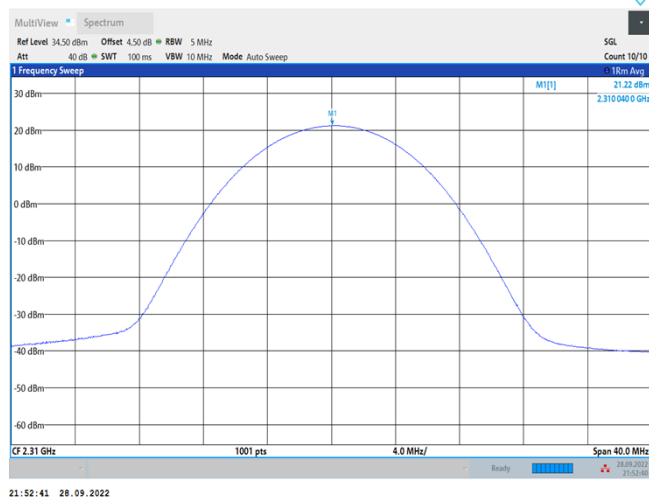


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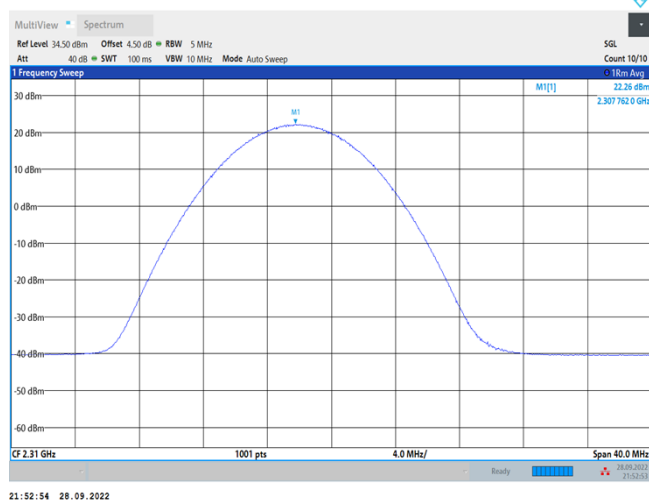
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### Band30-5MHz-16QAM -27710-1RB#0



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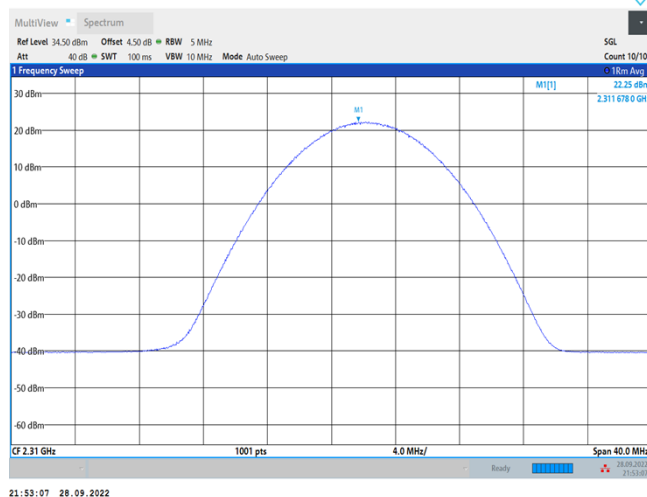
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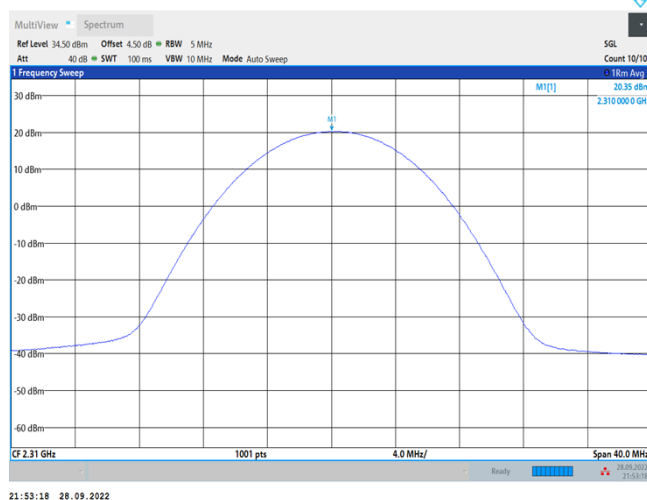
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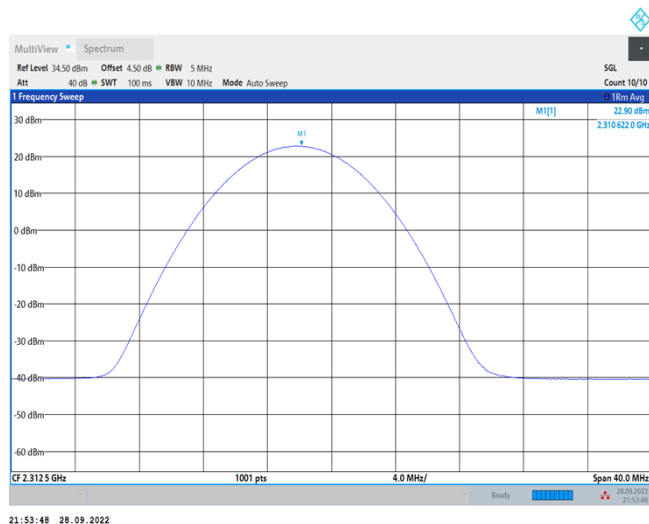
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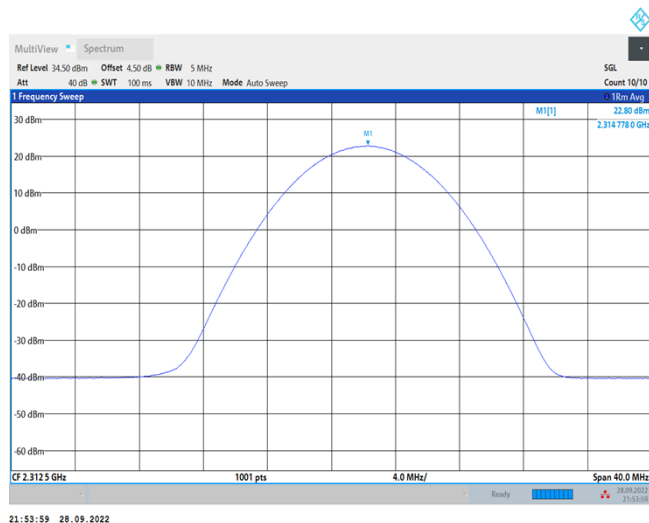
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### Band30-5MHz-QPSK -27735-1RB#0



### Band30-5MHz-QPSK-27735-1RB#24



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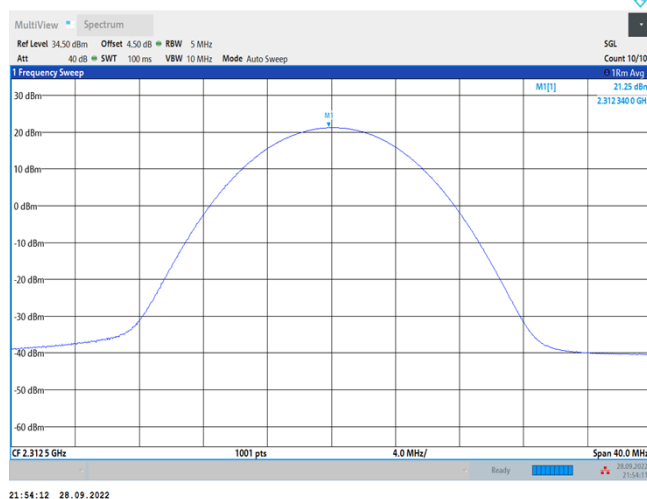
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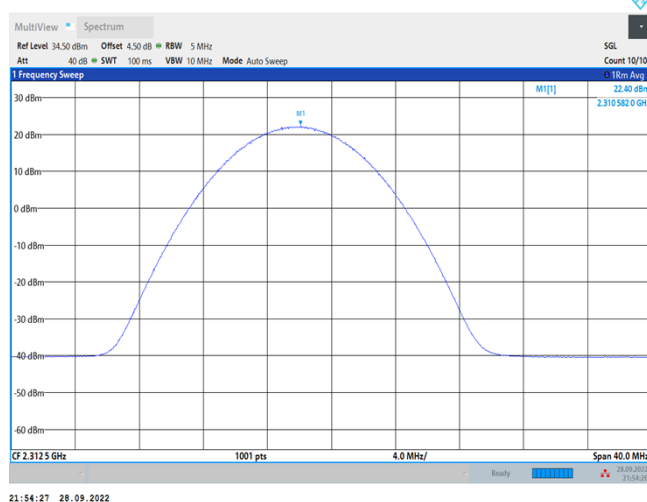
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### Band30-5MHz-QPSK-27735-25RB#0



### Band30-5MHz-16QAM -27735-1RB#0



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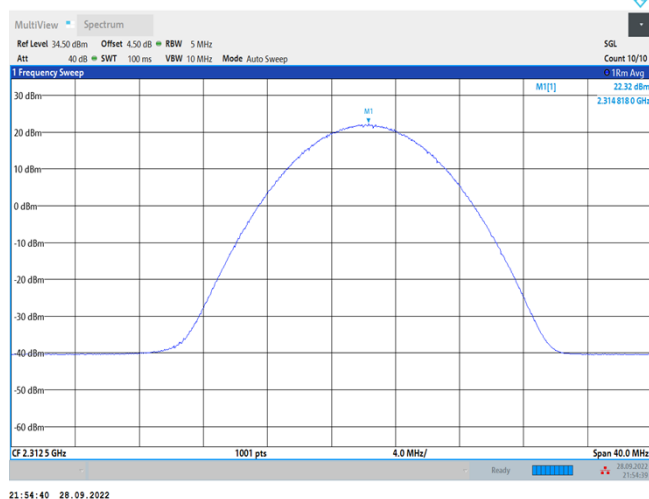
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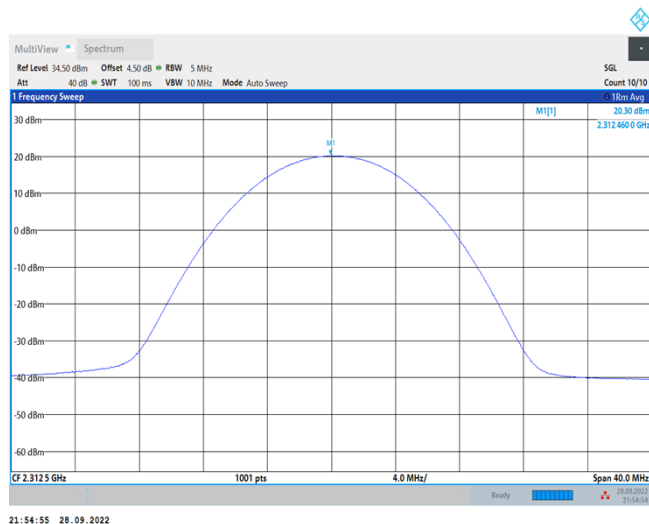
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### Band30-5MHz-16QAM-27735-25RB#0



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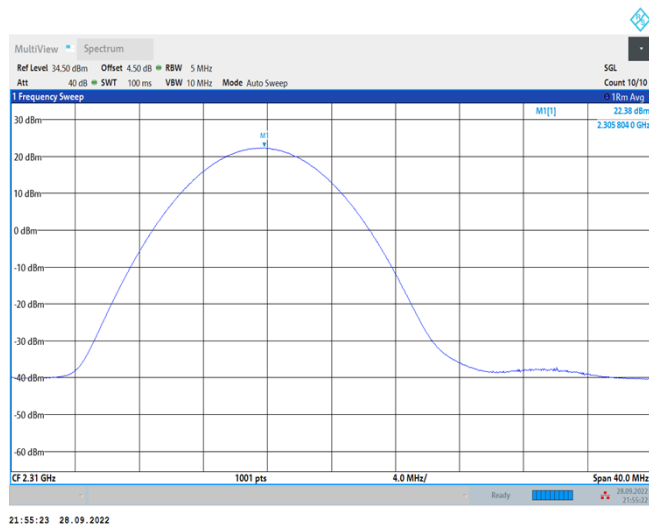
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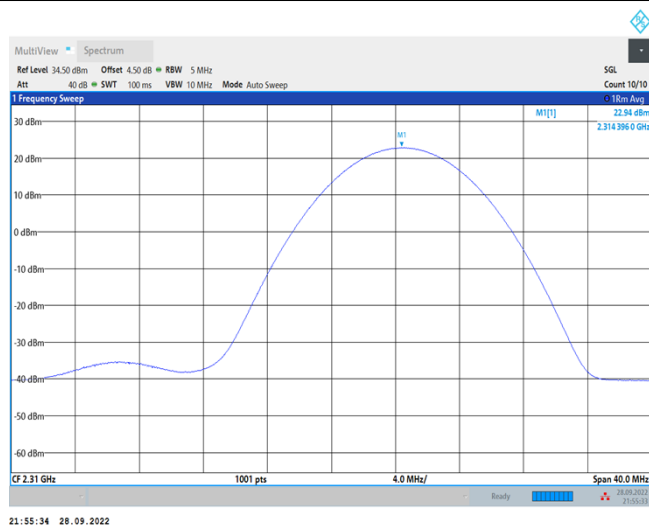
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### Band30-10MHz-QPSK-27710-1RB#0



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



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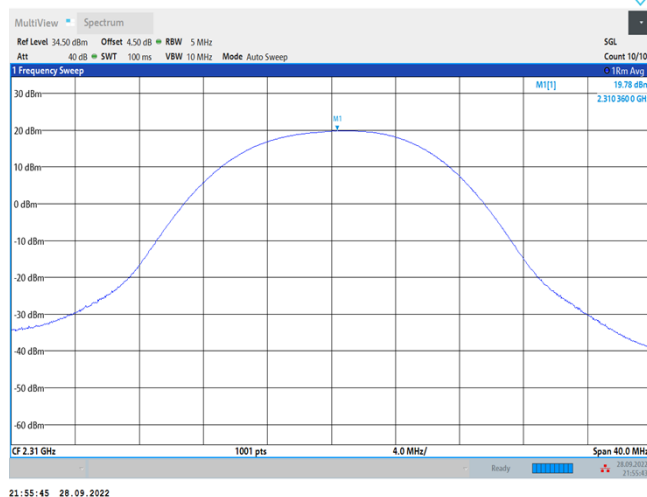


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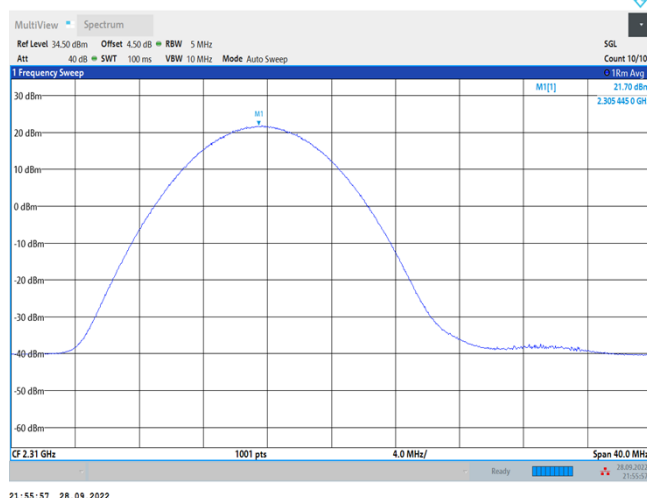
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### Band30-10MHz-QPSK-27710-50RB#0



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



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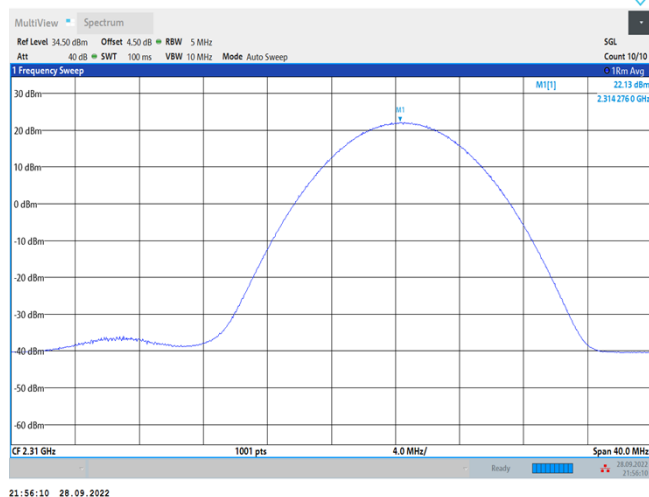
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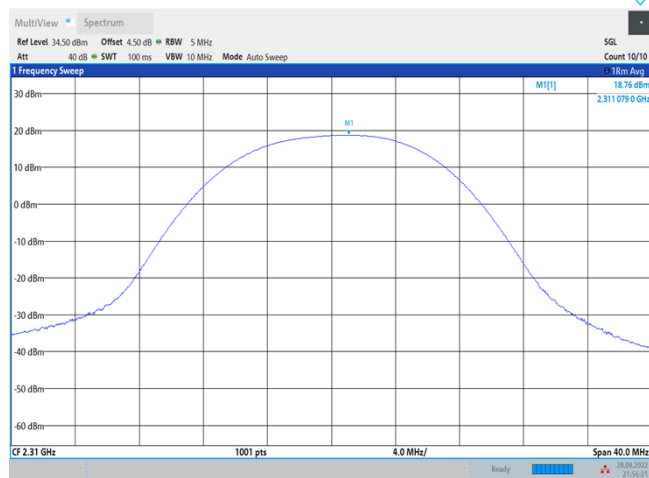
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### Band30-10MHz-16QAM-27710-1RB#49



21:56:10 28.09.2022

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



21:56:21 28.09.2022



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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	4.30	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	4.68	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	5.04	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.46	13	PASS



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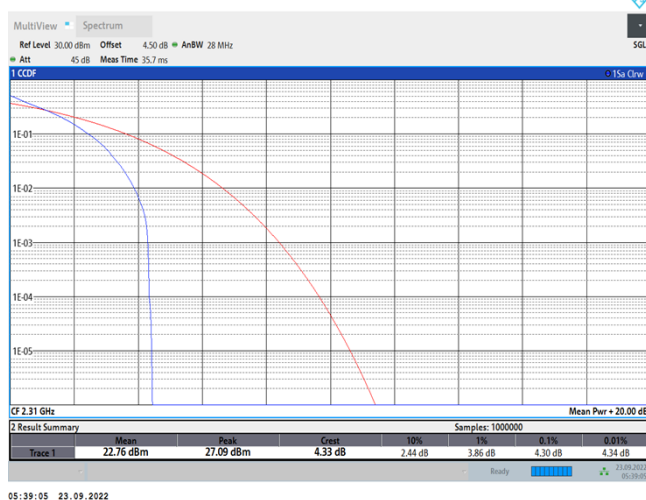
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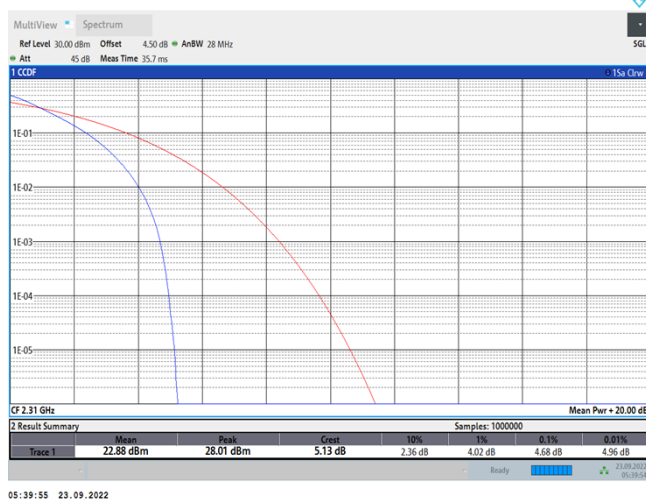
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### Test Graphs

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



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



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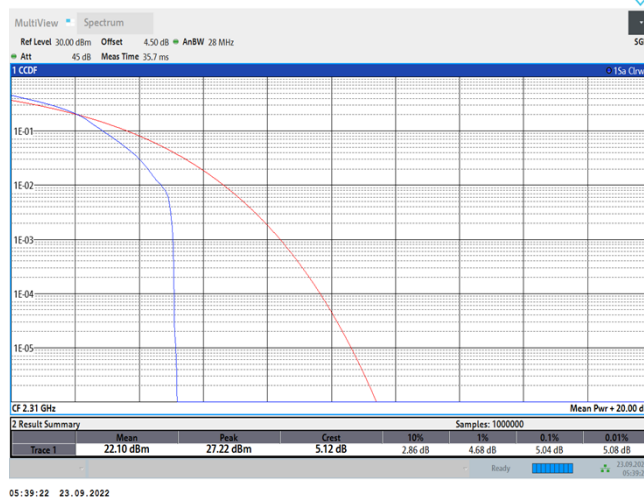
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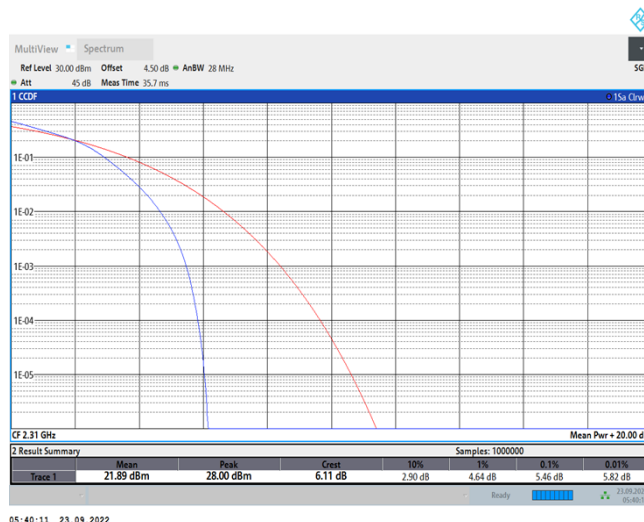
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### Band30-10MHz-16QAM-27710-1RB#0



### Band30-10MHz-16QAM-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



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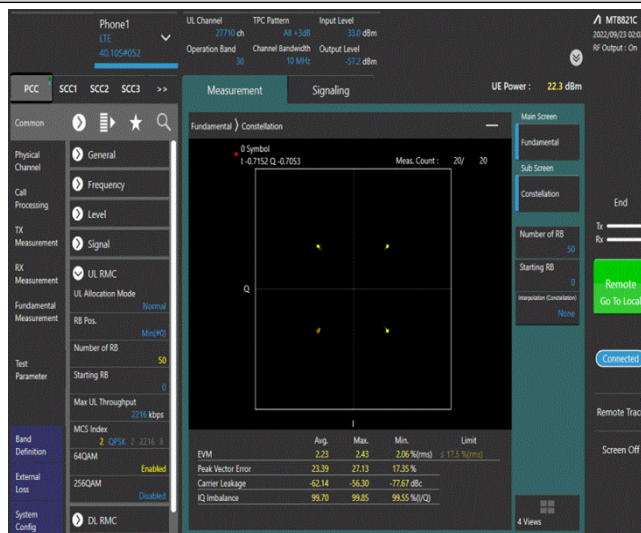
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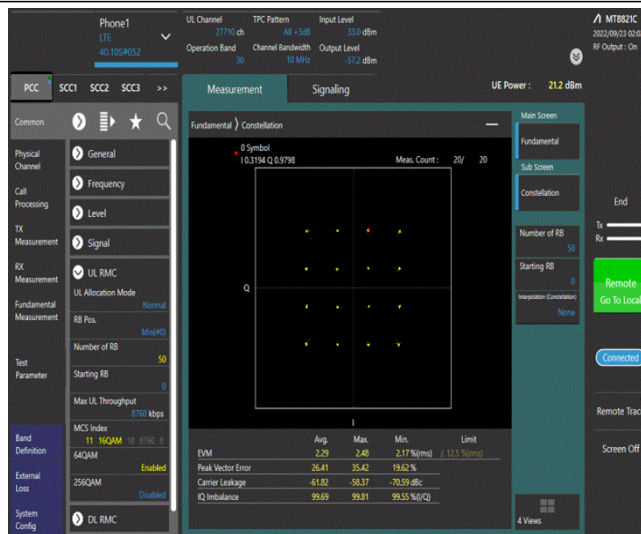
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### Test Graphs

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



Band30-10MHz-16QAM-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	4.505	4.79	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.503	4.79	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.497	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.5	4.78	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.504	4.77	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.496	4.77	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.981	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.984	9.57	PASS



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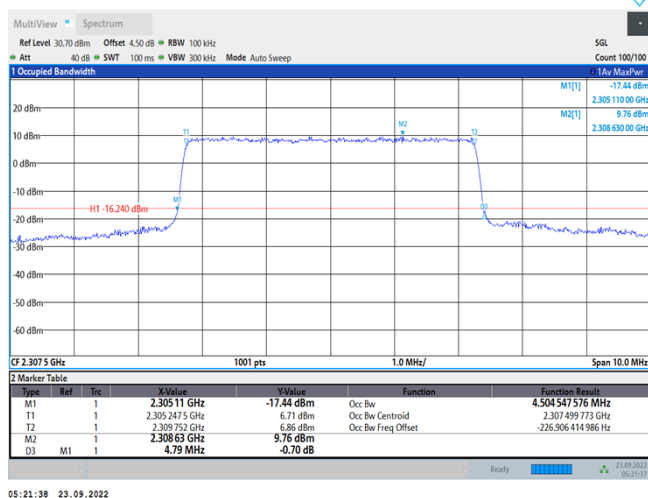
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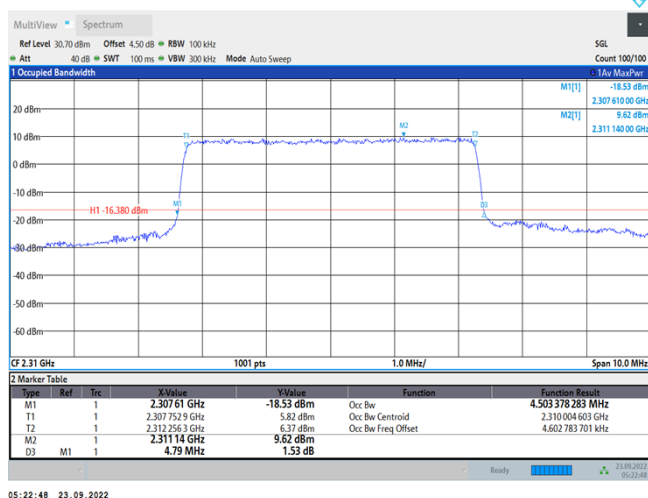
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### Test Graphs

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



Band30-5MHz-QPSK-27710-25RB#0



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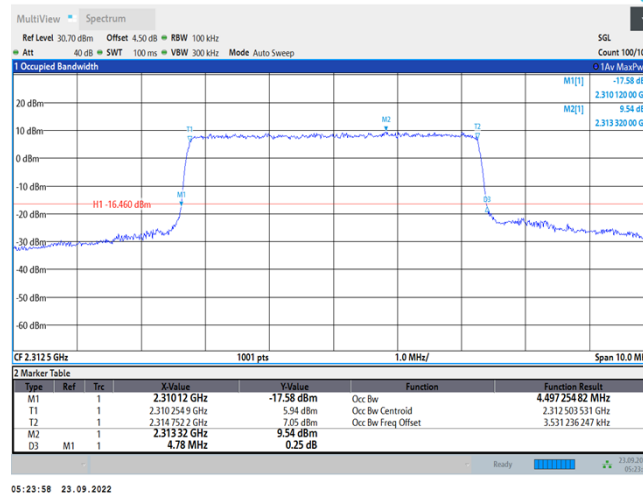
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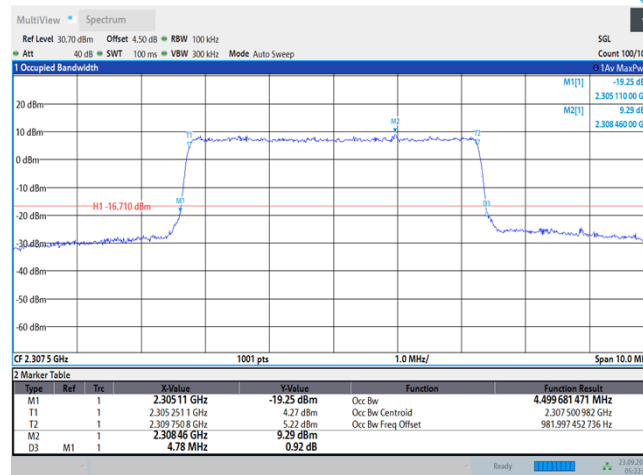
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### Band30-5MHz-QPSK-27735-25RB#0



05:23:58 23.09.2022

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



05:22:02 23.09.2022



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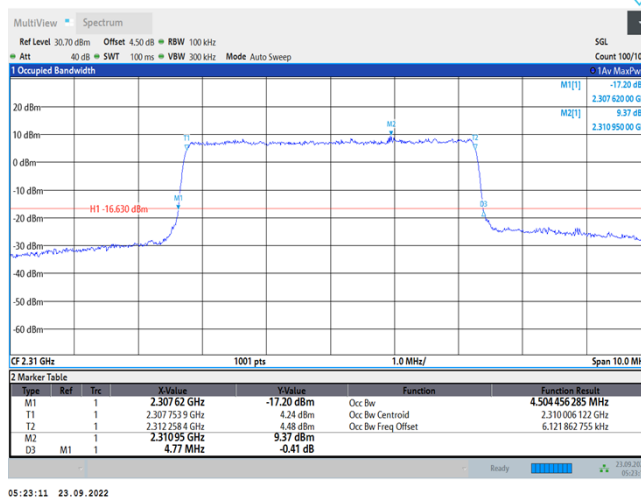
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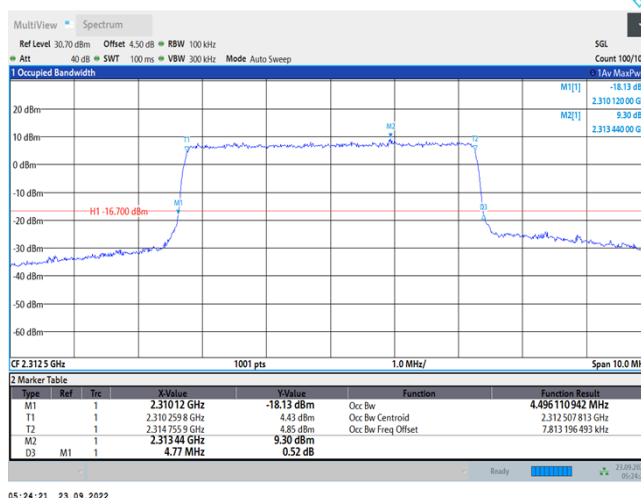
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### Band30-5MHz-16QAM-27710-25RB#0



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





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



15:35:11 24.09.2022

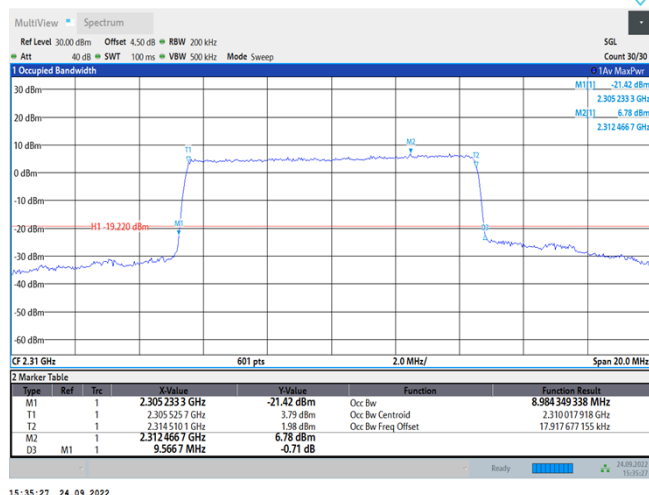


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### Band30-10MHz-16QAM-27710-50RB#0



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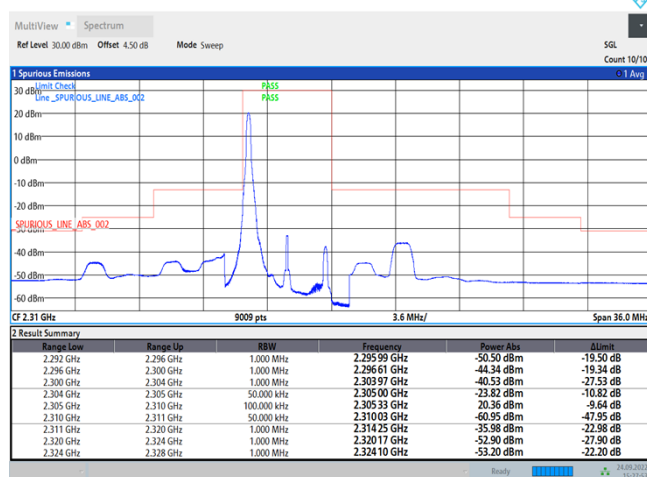
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## Band Edge

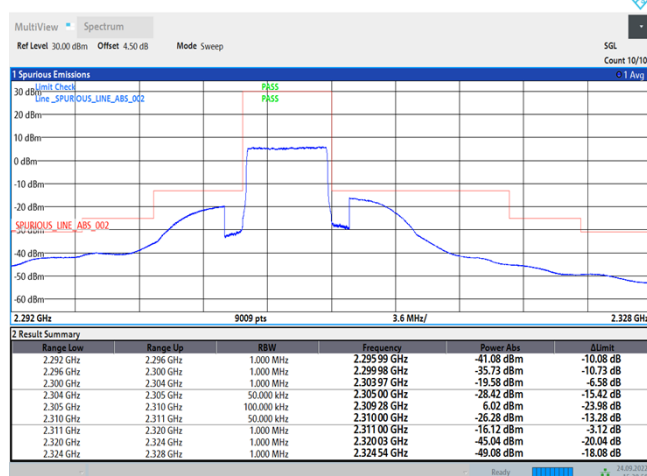
## Test Graphs

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



15:27:53 24.09.2022

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



15:28:58 24.09.2022



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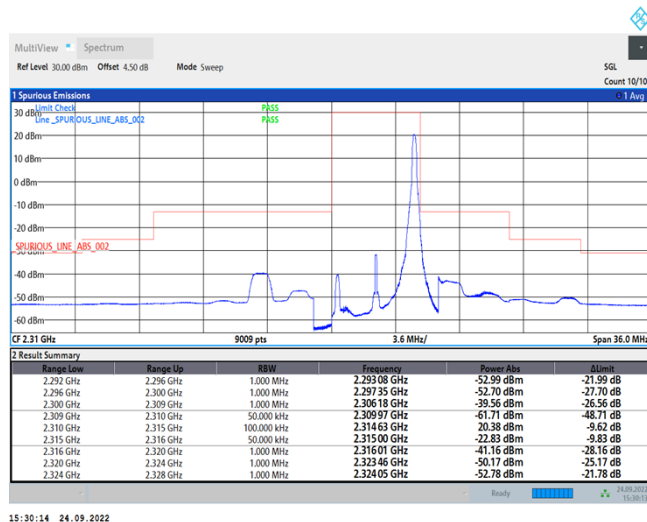
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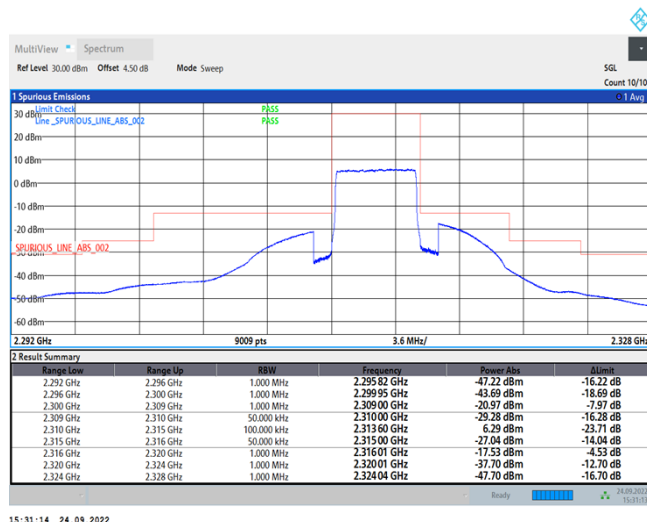
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### Band30-5MHz-QPSK-27735-1RB#24



15:30:14 24.09.2022

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



15:31:14 24.09.2022



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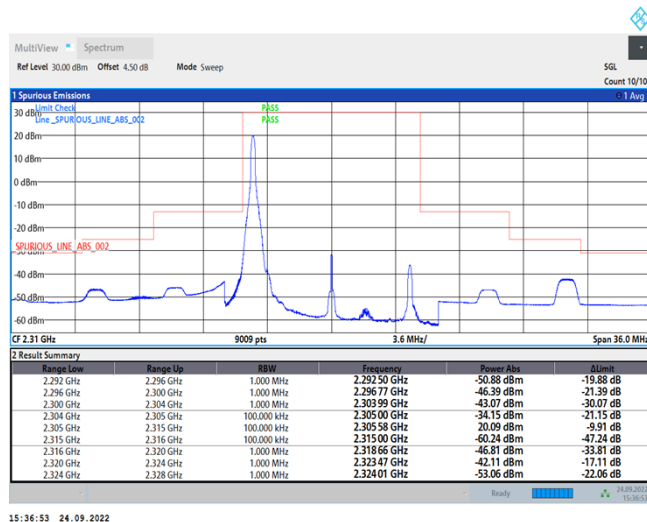
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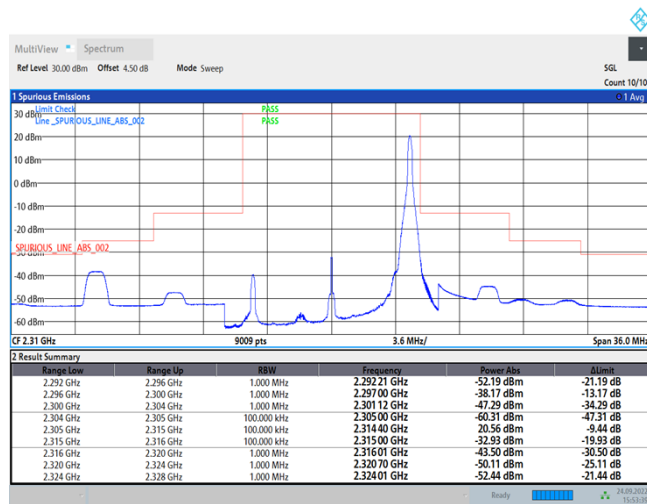
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### Band30-10MHz-QPSK-27710-1RB#0



15:36:53 24.09.2022

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



15:53:40 24.09.2022



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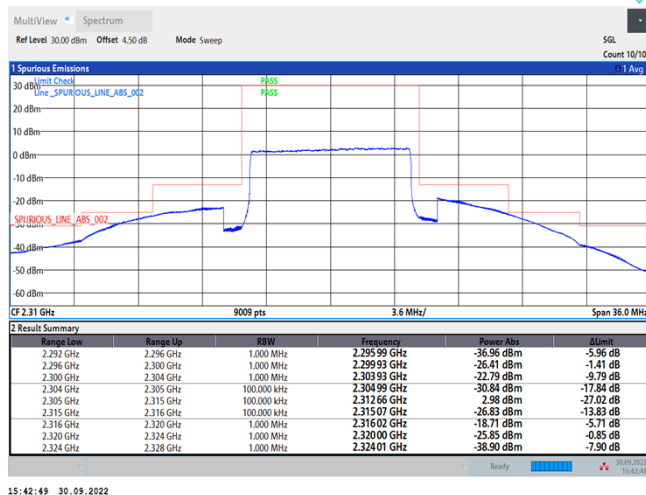
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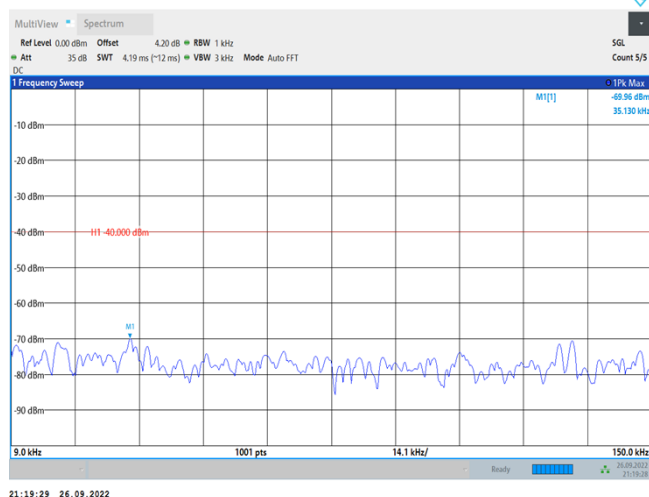
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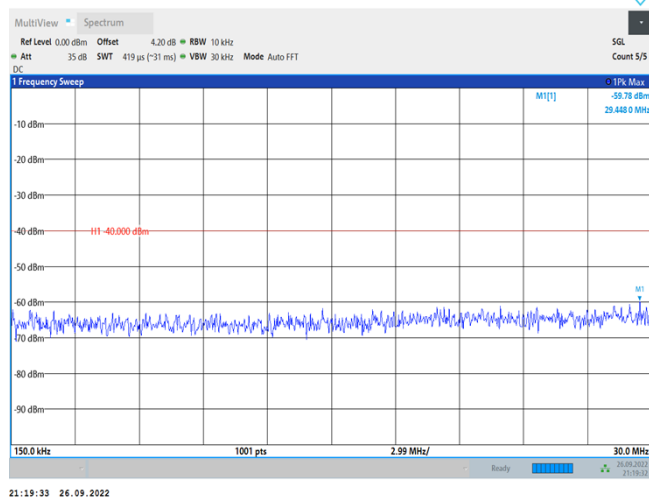
### Conducted Spurious Emission

#### 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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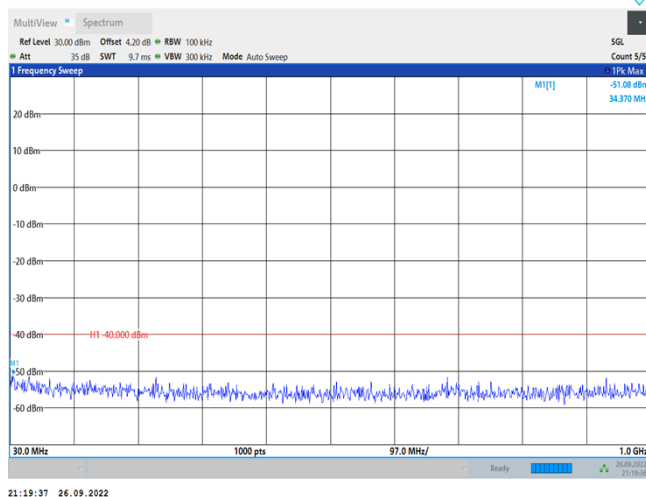


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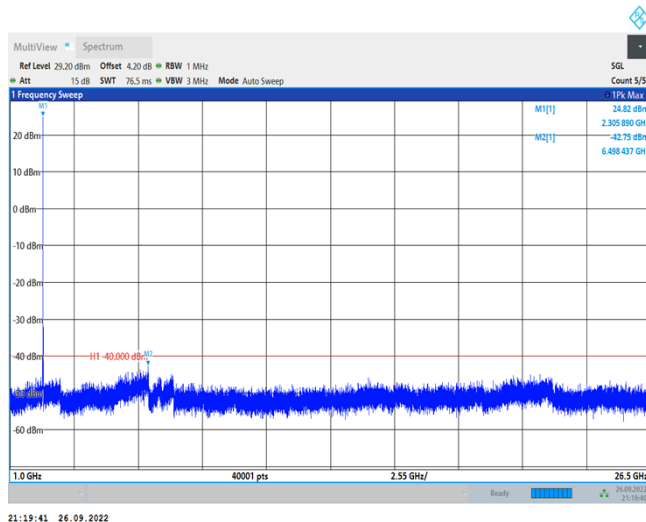
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### Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

**Test Band = LTE Band30\_10M\_ 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	4611.1800	51.29	-45.66	31.75	-57.89	-40.00	17.89	248	342	Horizontal
2	6916.7700	52.12	-44.01	35.98	-51.16	-40.00	11.16	152	352	Horizontal
3	9222.3600	48.57	-40.24	38.36	-48.58	-40.00	8.58	145	360	Horizontal
4	11527.9500	36.88	-37.19	38.97	-56.61	-40.00	16.61	126	360	Horizontal
5	13833.5400	39.12	-36.08	39.99	-52.23	-40.00	12.23	135	359	Horizontal
6	16139.1300	41.14	-34.58	37.69	-51.01	-40.00	11.01	199	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	4611.1800	51.85	-45.66	31.75	-57.33	-40.00	17.33	214	313	Vertical
2	6916.5	55.56	-44.01	35.98	-47.73	-40.00	7.73	186	253	Vertical
3	9222.3600	46.30	-40.24	38.36	-50.85	-40.00	10.85	125	73	Vertical
4	11527.9500	36.35	-37.19	38.97	-57.14	-40.00	17.14	135	178	Vertical
5	13833.5400	38.89	-36.08	39.99	-52.46	-40.00	12.46	129	360	Vertical
6	16139.1300	41.36	-34.58	37.69	-50.79	-40.00	10.79	148	75	Vertical



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**Test Band = LTE Band30\_5M\_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	55.03	-45.66	31.74	-54.15	-40.00	14.15	254	299	Horizontal
2	6916.0200	51.92	-44.01	35.98	-51.37	-40.00	11.37	165	14	Horizontal
3	9221.3600	47.21	-40.24	38.36	-49.94	-40.00	9.94	125	360	Horizontal
4	11526.7000	37.98	-37.20	38.97	-55.51	-40.00	15.51	133	341	Horizontal
5	13832.0400	40.23	-36.09	39.99	-51.13	-40.00	11.13	269	150	Horizontal
6	16137.3800	40.42	-34.58	37.69	-51.72	-40.00	11.72	145	268	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	52.76	-45.66	31.74	-56.42	-40.00	16.42	254	329	Vertical
2	6916.0200	53.32	-44.01	35.98	-49.97	-40.00	9.97	168	120	Vertical
3	9221.25	48.58	-40.24	38.36	-48.57	-40.00	8.57	196	75	Vertical
4	11526.7000	37.81	-37.20	38.97	-55.68	-40.00	15.68	174	360	Vertical
5	13832.0400	39.76	-36.09	39.99	-51.60	-40.00	11.60	185	148	Vertical
6	16137.3800	42.14	-34.58	37.69	-50.00	-40.00	10.00	142	360	Vertical



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**Test Band = LTE Band30\_5M\_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	4615.6800	50.44	-45.66	31.76	-58.72	-40.00	18.72	284	300	Horizontal
2	6923.5200	53.93	-43.97	35.99	-49.31	-40.00	9.31	122	360	Horizontal
3	9231.3600	48.31	-40.24	38.36	-48.83	-40.00	8.83	136	360	Horizontal
4	11539.2000	36.88	-37.15	38.96	-56.57	-40.00	16.57	253	286	Horizontal
5	13847.0400	38.42	-35.95	40.00	-52.79	-40.00	12.79	136	88	Horizontal
6	16154.8800	40.31	-34.60	37.67	-51.87	-40.00	11.87	261	287	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	4615.6800	51.47	-45.66	31.76	-57.69	-40.00	17.69	214	165	Vertical
2	6923.5200	55.16	-43.97	35.99	-48.08	-40.00	8.08	152	269	Vertical
3	9231.3600	47.38	-40.24	38.36	-49.76	-40.00	9.76	136	120	Vertical
4	11539.2000	37.28	-37.15	38.96	-56.17	-40.00	16.17	263	344	Vertical
5	13847.0400	39.20	-35.95	40.00	-52.01	-40.00	12.01	251	353	Vertical
6	16154.8800	41.92	-34.60	37.67	-50.26	-40.00	10.26	145	29	Vertical



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**Test Band = LTE Band30\_5M\_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	52.47	-45.66	31.77	-56.67	-40.00	16.67	284	283	Horizontal
2	6931.0200	52.25	-43.93	36.00	-50.94	-40.00	10.94	156	357	Horizontal
3	9241.3200	46.71	-40.24	38.37	-50.42	-40.00	10.42	142	4	Horizontal
4	11551.7000	36.10	-37.10	38.94	-57.31	-40.00	17.31	135	360	Horizontal
5	13862.0400	38.31	-35.81	40.02	-52.74	-40.00	12.74	125	30	Horizontal
6	16172.3800	41.38	-34.61	37.65	-50.84	-40.00	10.84	163	300	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	52.92	-45.66	31.77	-56.22	-40.00	16.22	214	166	Vertical
2	6930.75	56.45	-43.93	36.00	-46.74	-40.00	6.74	153	273	Vertical
3	9241.3200	48.46	-40.24	38.37	-48.67	-40.00	8.67	133	75	Vertical
4	11551.7000	36.73	-37.10	38.94	-56.68	-40.00	16.68	269	357	Vertical
5	13862.0400	38.51	-35.81	40.02	-52.54	-40.00	12.54	251	343	Vertical
6	16172.3800	41.32	-34.61	37.65	-50.90	-40.00	10.90	145	360	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	-7.10	-0.003074	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	1.00	0.000433	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-6.00	-0.002597	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	3.90	0.001688	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-8.50	-0.003680	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	0.90	0.000390	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	7.00	0.003030	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	0.90	0.000390	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	1.00	0.000433	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-5.70	-0.002468	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-6.00	-0.002597	PASS

---End of Attachment---



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