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# Appendix B.13

## LTE Band 30



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.12	19.12	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.14	19.14	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.08	19.08	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.23	18.23	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.13	19.13	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.21	19.21	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.13	19.13	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.11	18.11	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.24	19.24	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.16	19.16	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.07	19.07	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.18	18.18	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.3	18.3	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.27	18.27	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.18	18.18	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.22	17.22	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.37	18.37	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.3	18.3	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.3	18.3	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.12	17.12	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.26	18.26	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.37	18.37	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.17	18.17	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.21	17.21	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.41	17.41	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.36	17.36	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.28	17.28	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.23	16.23	23.98	PASS



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Band30	5MHz	64QAM	27710	1RB#0	20.29	17.29	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.36	17.36	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.31	17.31	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.13	16.13	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.26	17.26	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.44	17.44	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.18	17.18	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.17	16.17	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.07	14.07	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.22	14.22	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.32	14.32	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.17	14.17	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.19	14.19	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.34	14.34	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.18	14.18	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.13	14.13	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.33	14.33	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.39	14.39	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.1	14.1	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.23	14.23	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.24	19.24	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.14	19.14	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.18	19.18	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.16	18.16	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.49	18.49	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.4	18.4	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.23	18.23	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.14	17.14	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.17	17.17	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.38	17.38	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.18	17.18	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.24	16.24	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.11	14.11	23.98	PASS



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Band30	10MHz	256QAM	27710	1RB#24	17.36	14.36	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.05	14.05	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.12	14.12	23.98	PASS



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## EIRP Density Result

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	24.4	21.4	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	24.45	21.45	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	24.35	21.35	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	24.08	21.08	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	24.00	21	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	24.04	21.04	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.92	20.92	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	24.10	21.1	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	24.34	21.34	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	24.12	21.12	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#12	24.06	21.06	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	24.43	21.43	23.98	PASS



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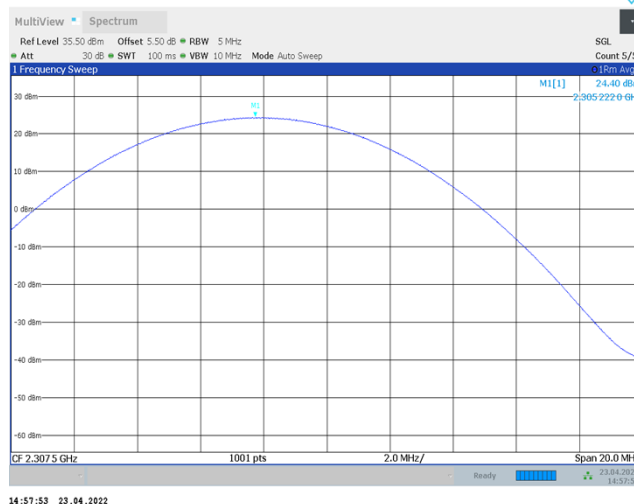
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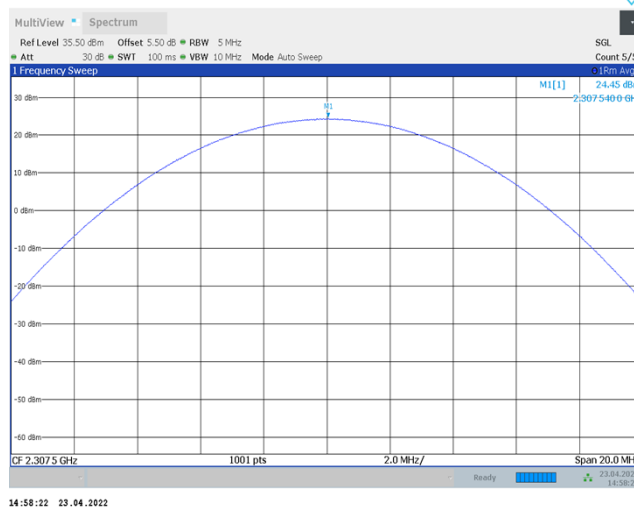
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### Test plots

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



Band30-5MHz-QPSK-27685-1RB#12



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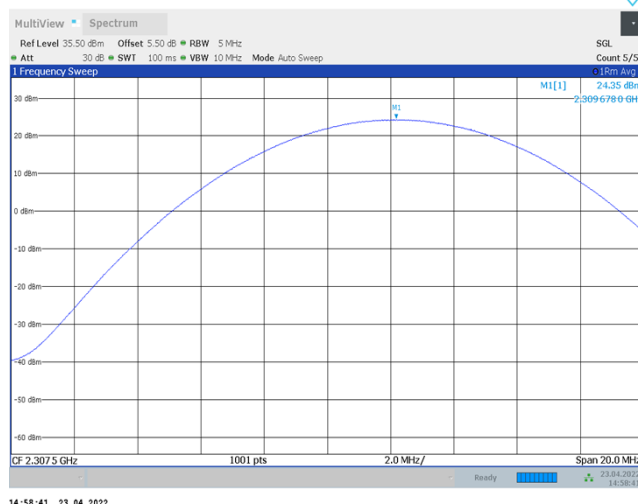
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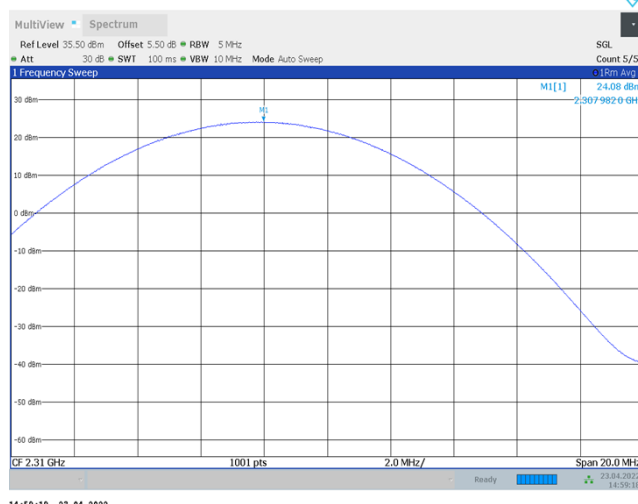
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### Band30-5MHz-QPSK-27685-1RB#24



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



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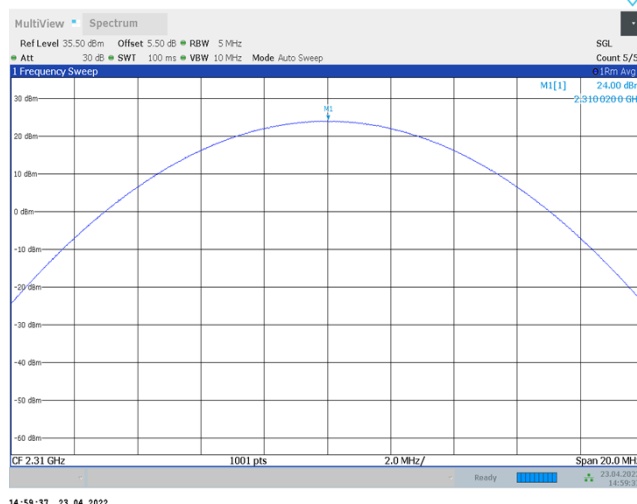
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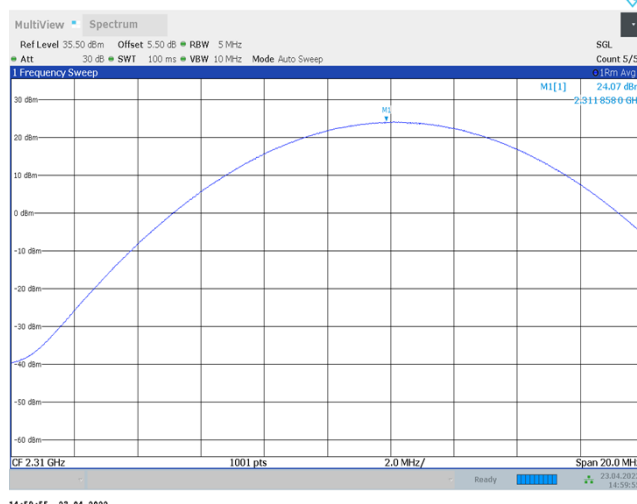
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### Band30-5MHz-QPSK -27710-1RB#12



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



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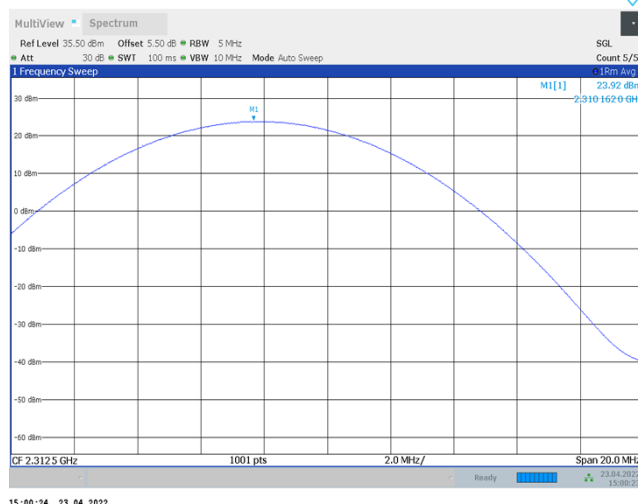


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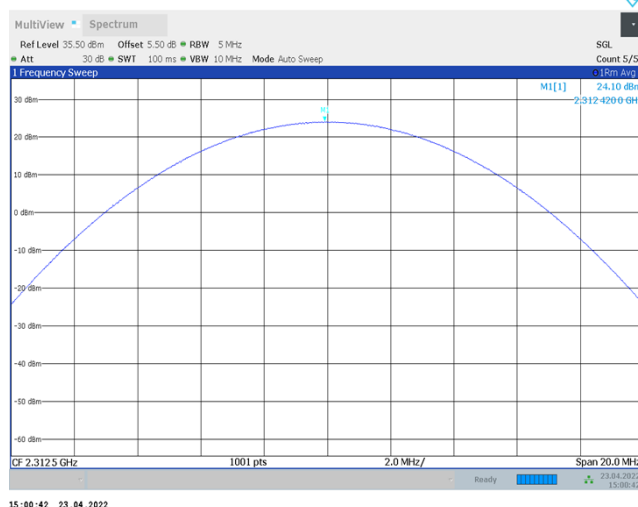
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### Band30-5MHz-QPSK -27735-1RB#0



### Band30-5MHz-QPSK-27735-1RB#12



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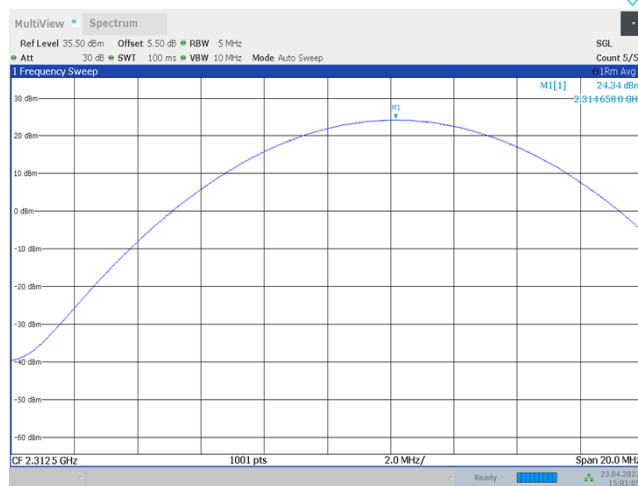
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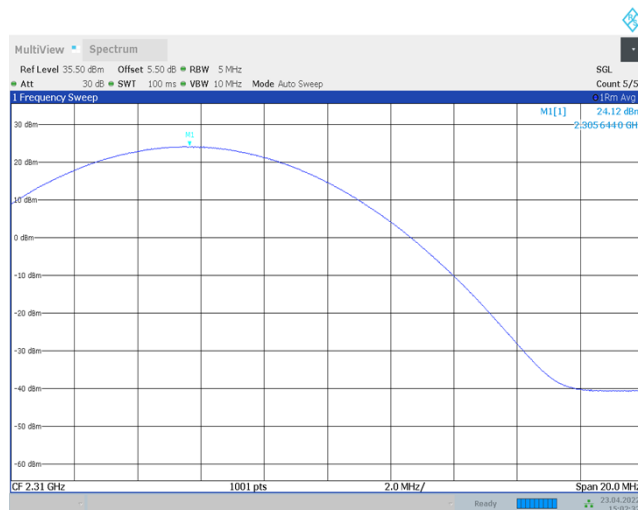
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### Band30-5MHz-QPSK -27735-1RB#24



15:01:05 23.04.2022

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



15:02:32 23.04.2022



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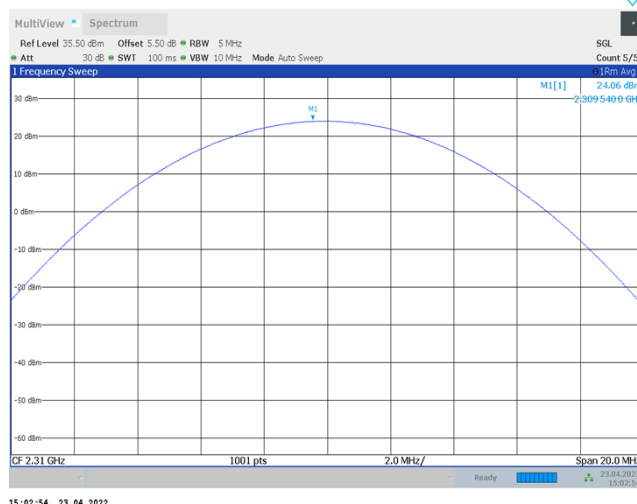
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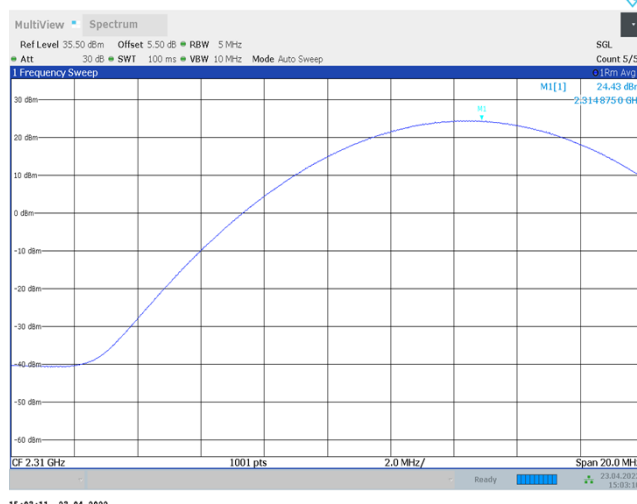
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### Band30-10MHz-QPSK-27710-1RB#24



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



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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	50RB#0	4.70	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.88	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.28	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.54	13	PASS



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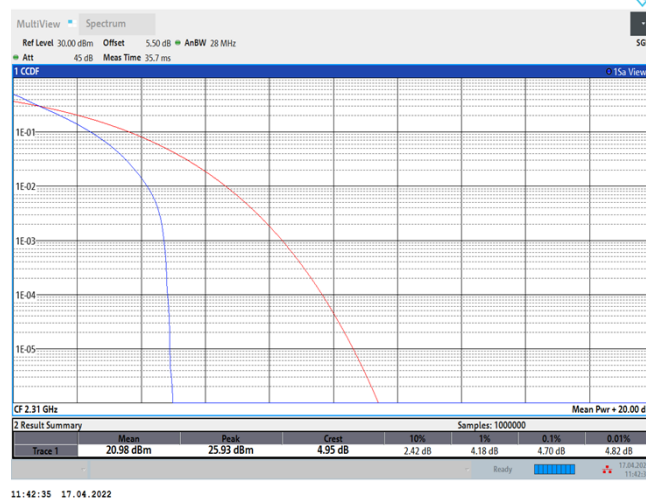
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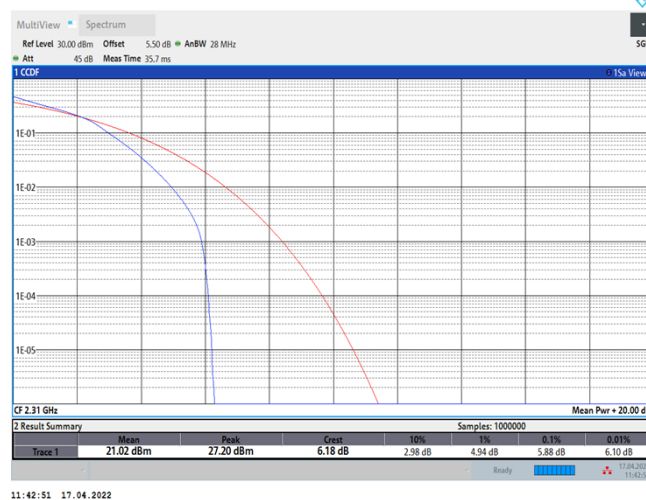
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## Test Graphs

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



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



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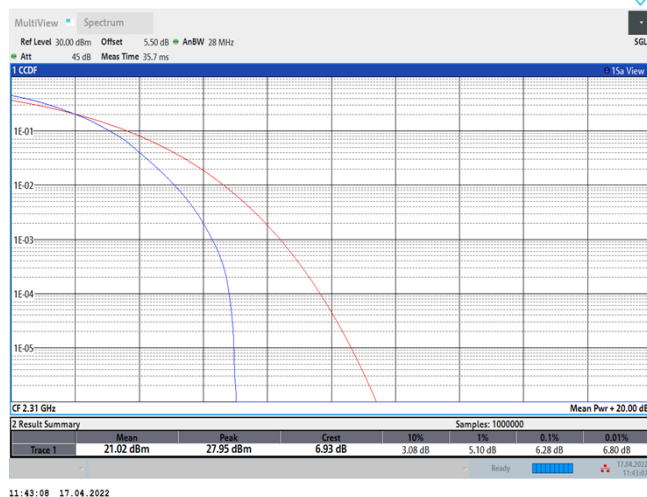
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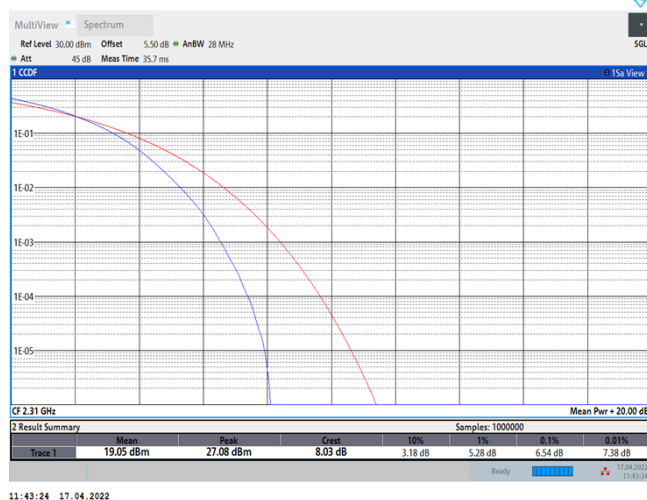
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### Band30-10MHz-64QAM-27710-50RB#0



### Band30-10MHz-256QAM-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	4.504	4.78	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.512	4.81	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.507	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.507	4.80	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.516	4.80	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.51	4.79	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.51	4.78	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.506	4.79	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.506	4.77	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.507	4.81	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.512	1.34	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.508	4.79	PASS
Band30	10MHz	QPSK	27710	50RB#0	9.008	9.60	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.997	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.993	9.53	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.997	9.57	PASS



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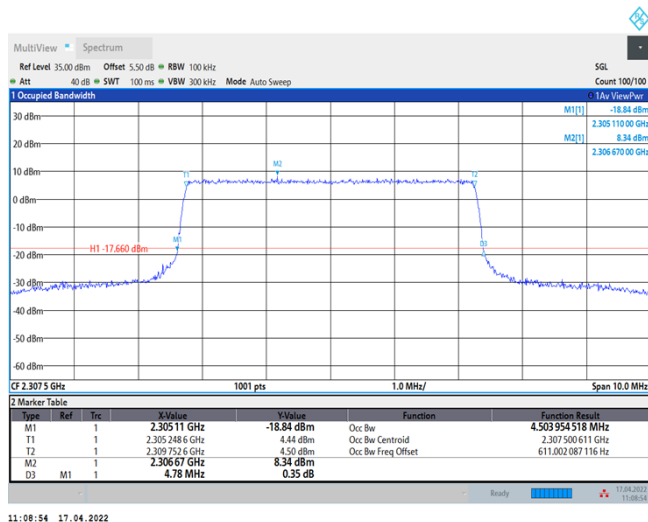
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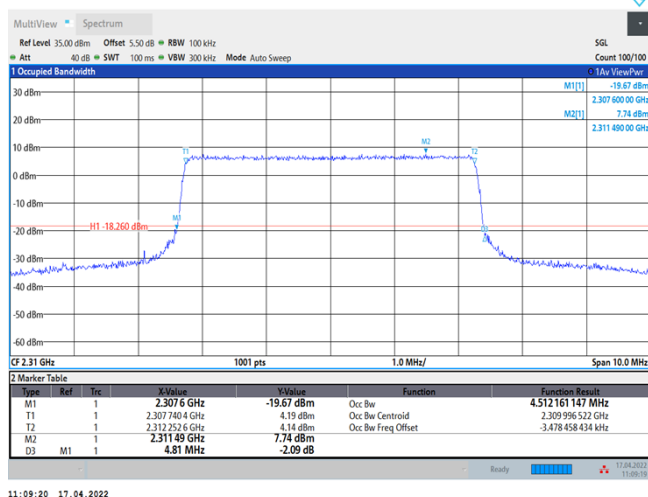
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### Test Graphs

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



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



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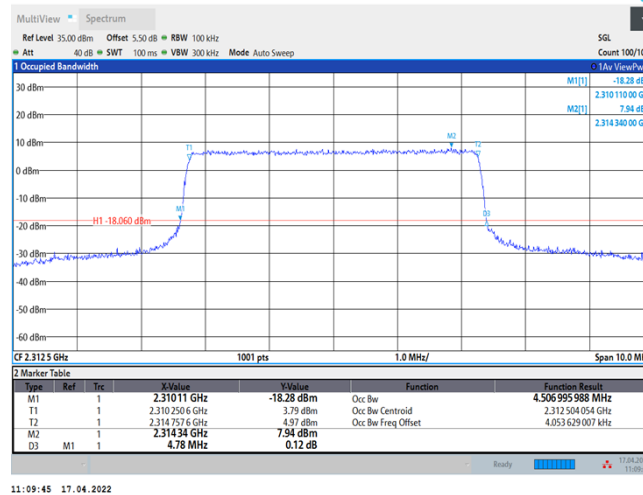
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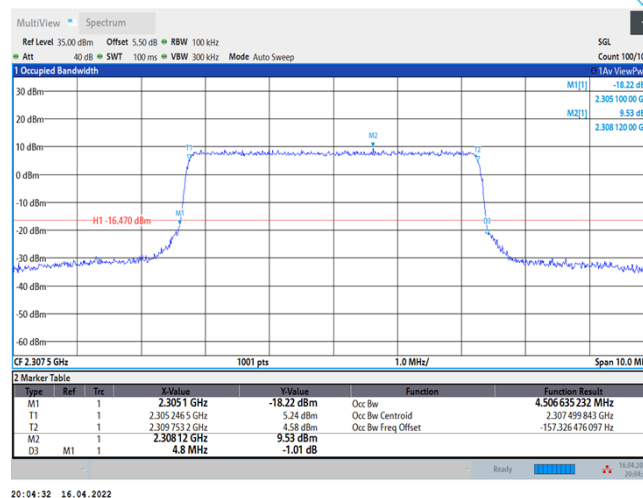
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### Band30-5MHz-16QAM-27685-25RB#0



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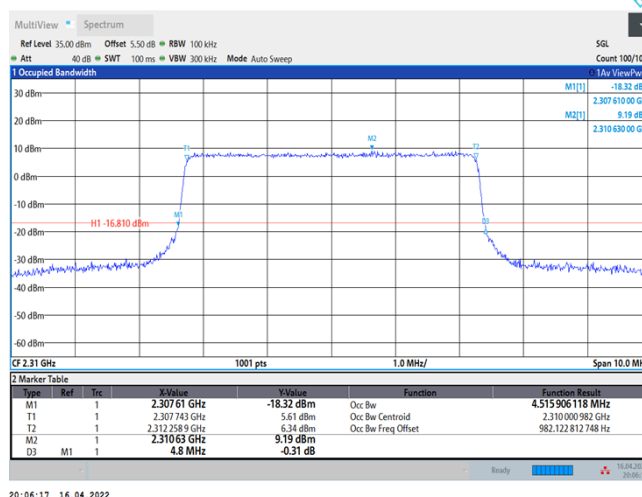
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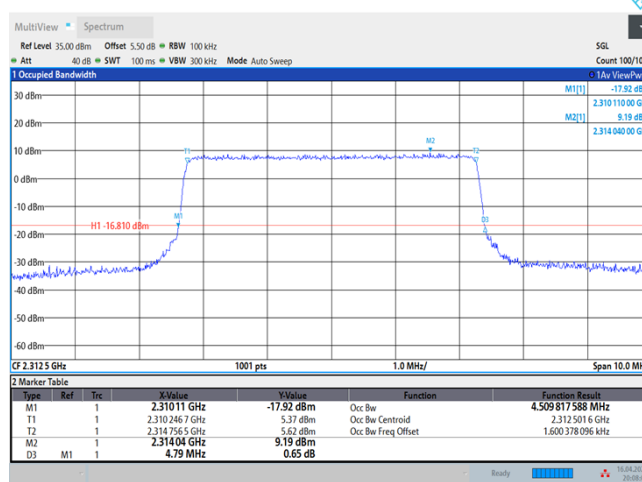
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### Band30-5MHz-16QAM-27710-25RB#0



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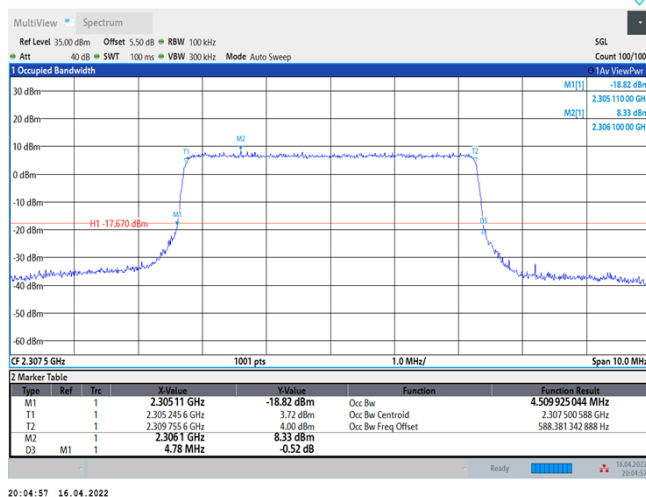
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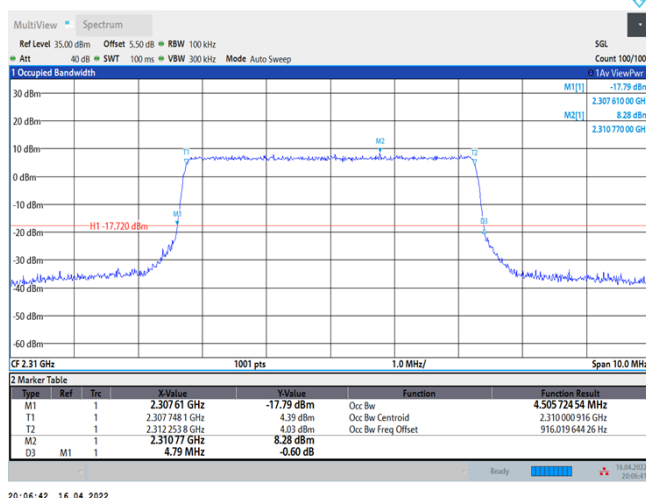
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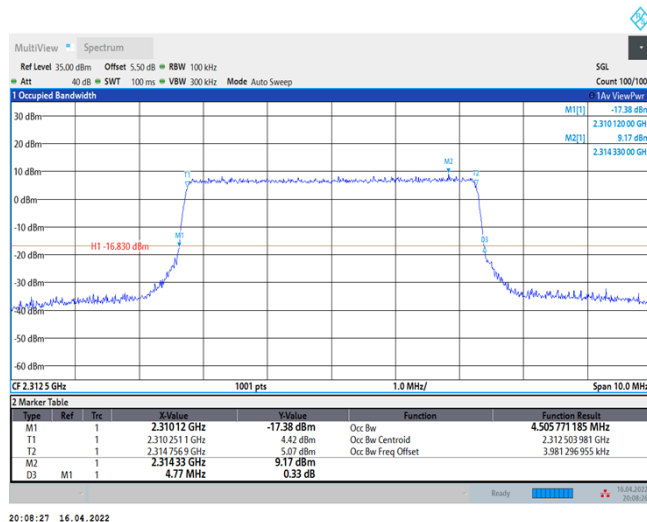
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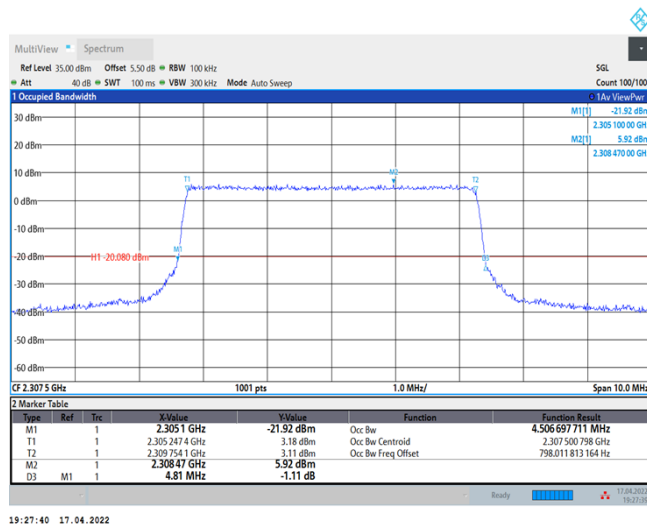
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## Band30-5MHz-64QAM-27735-25RB#0



## Band30-5MHz-256QAM-27685-25RB#0



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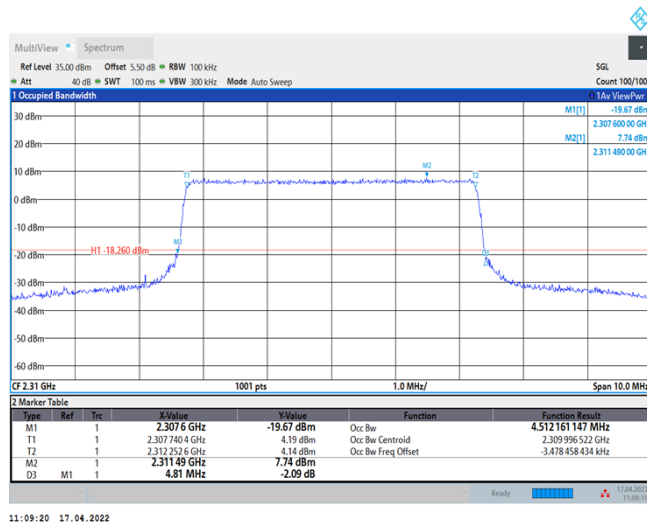


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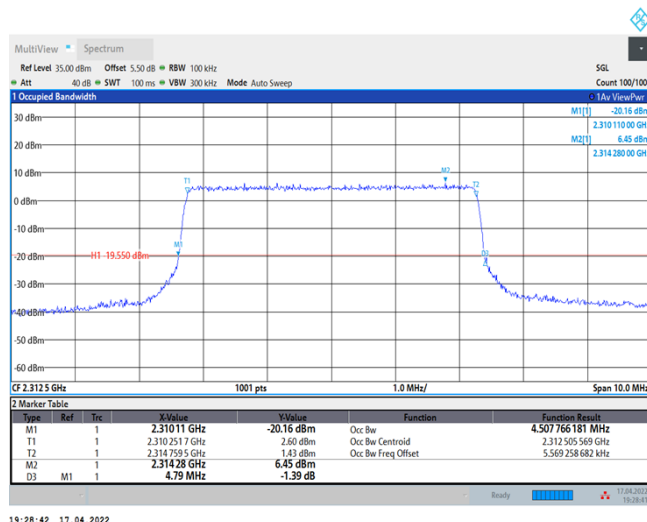
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### Band30-5MHz-256QAM-27710-25RB#0



### Band30-5MHz-256QAM-27735-25RB#0



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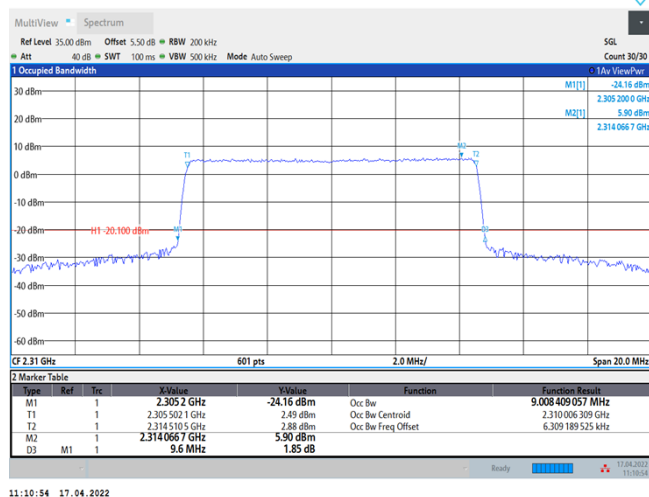
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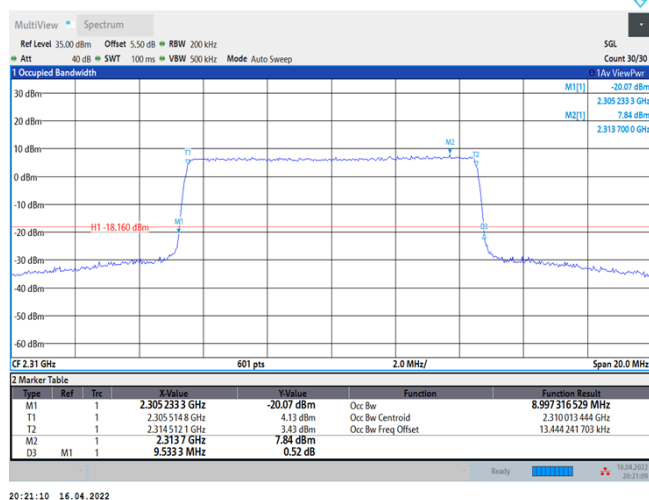
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### Band30-10MHz-QPSK-27710-50RB#0



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



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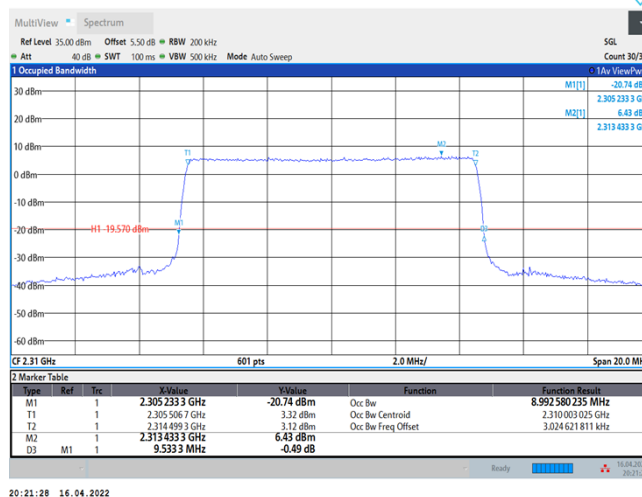
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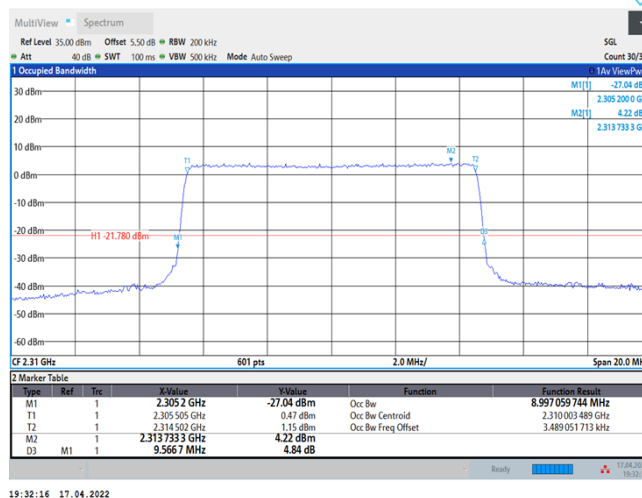
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### Band30-10MHz-64QAM-27710-50RB#0



### Band30-10MHz-256QAM-27710-50RB#0



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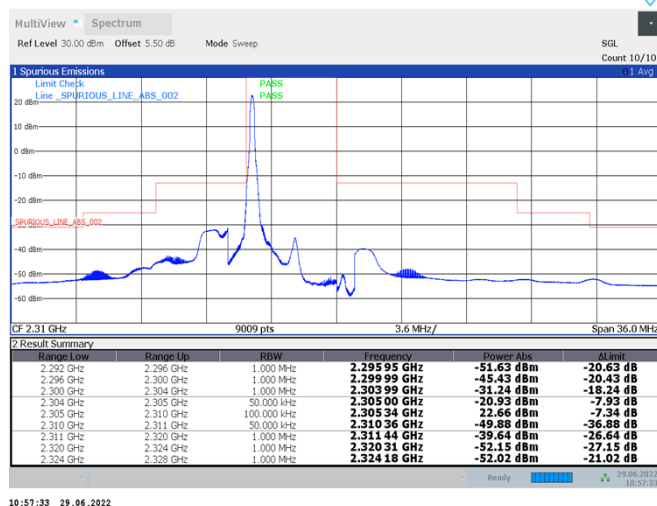
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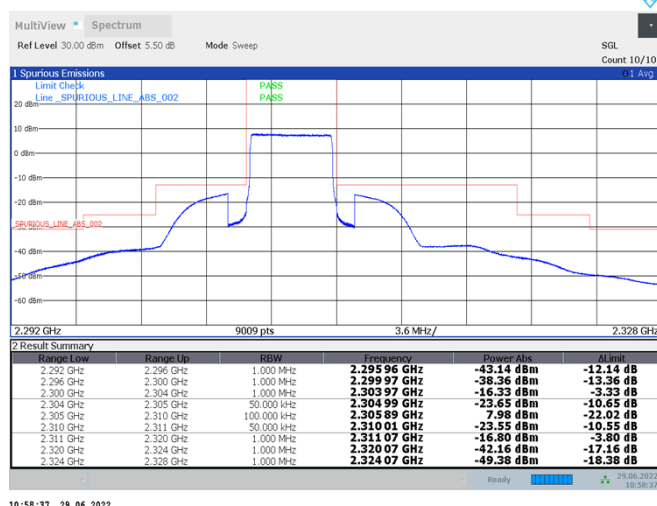
### Band Edge

### Test Graphs

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



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



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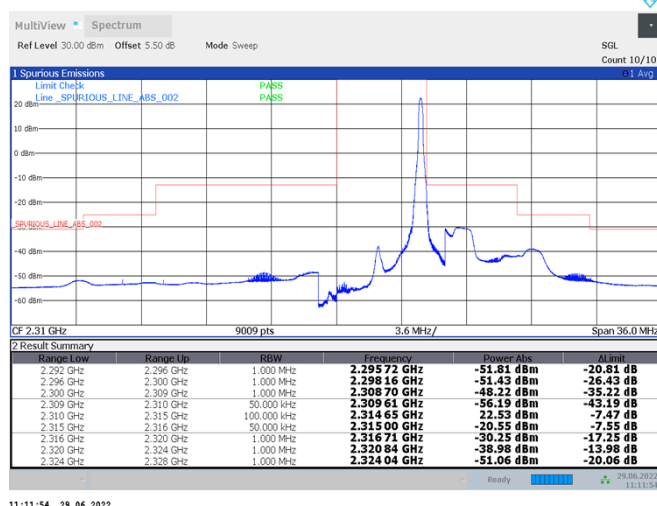
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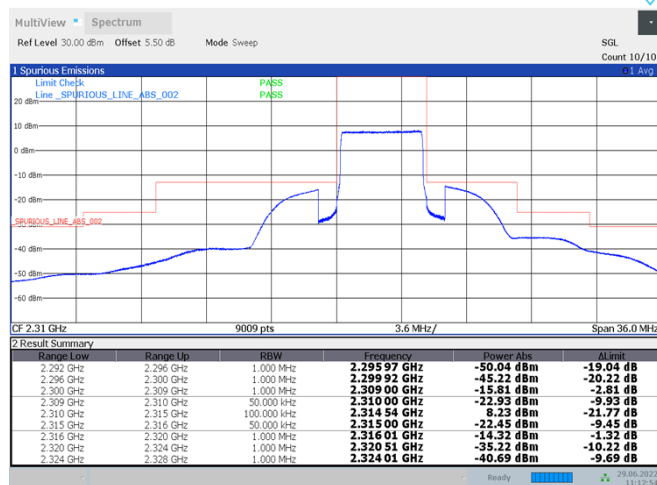
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### Band30-5MHz-QPSK-27735-1RB#24



11:11:54 29.06.2022

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



11:12:54 29.06.2022



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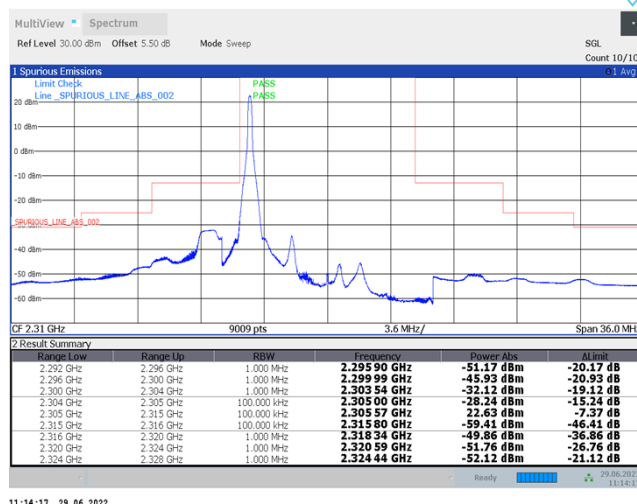


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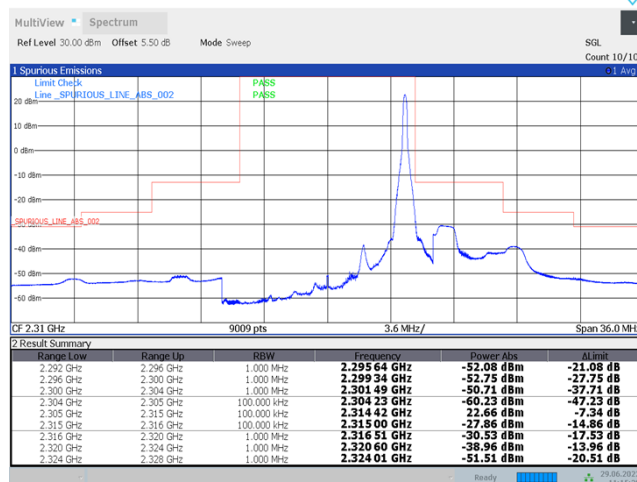
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### Band30-10MHz-QPSK-27710-1RB#0



11:14:17 29.06.2022

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



11:15:30 29.06.2022



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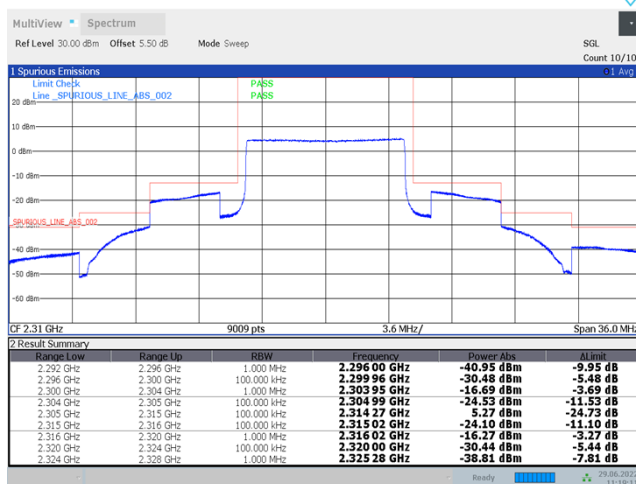


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### Band30-10MHz-QPSK-27710-50RB#0



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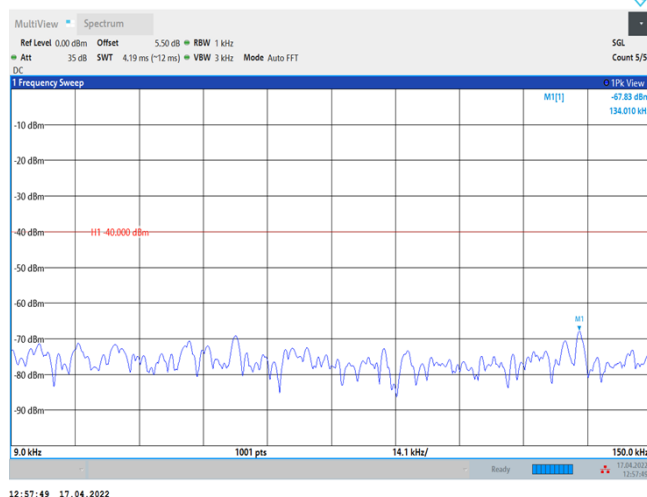
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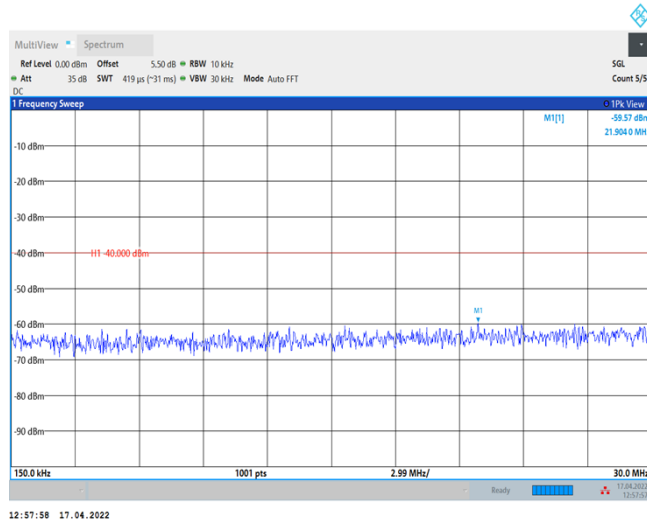
### Conducted Spurious Emission

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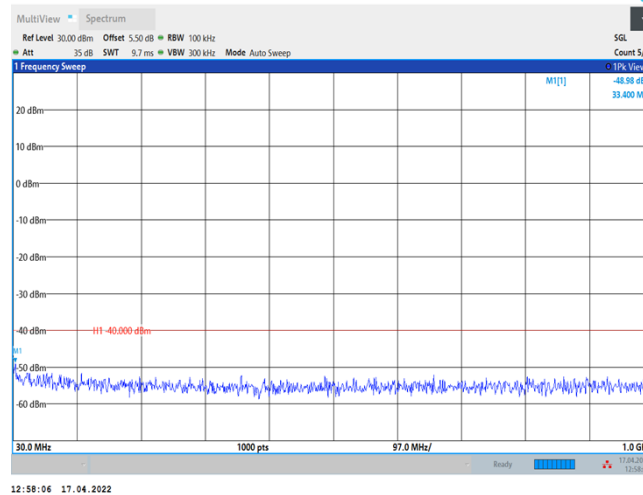
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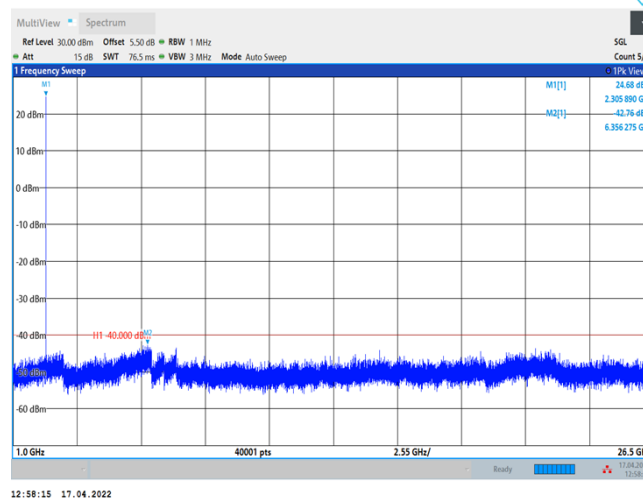
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### Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 30 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	4899.5	43.56	-45.53	31.18	-66.05	-40.00	26.05	Horizontal
2	6711.5	41.02	-43.85	34.68	-63.41	-40.00	23.41	Horizontal
3	7527	39.65	-43.08	36.61	-62.08	-40.00	22.08	Horizontal
4	10101	33.16	-39.12	38.25	-62.97	-40.00	22.97	Horizontal
5	12723.5	27.76	-36.72	39.02	-65.20	-40.00	25.20	Horizontal
6	16342	28.59	-34.57	40.26	-60.98	-40.00	20.98	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	49.06	-45.66	30.54	-61.32	-40.00	21.32	Vertical
2	6916.5	47.44	-44.01	35.05	-56.78	-40.00	16.78	Vertical
3	8402.5	38.44	-41.45	36.60	-61.68	-40.00	21.68	Vertical
4	10061.5	32.80	-39.17	38.23	-63.40	-40.00	23.40	Vertical
5	12765.5	28.31	-36.78	39.03	-64.70	-40.00	24.70	Vertical
6	15153.5	26.80	-34.40	40.98	-61.88	-40.00	21.88	Vertical



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Report No.: SEWA2309000114RG01

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**Test Band = LTE Band 30 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	3414	44.19	-46.28	28.55	-68.80	-40.00	28.80	Horizontal
2	4898	43.15	-45.53	31.18	-66.46	-40.00	26.46	Horizontal
3	6456.5	41.43	-44.52	34.16	-64.19	-40.00	24.19	Horizontal
4	7755	39.42	-42.67	36.70	-61.81	-40.00	21.81	Horizontal
5	11252	30.96	-37.41	38.73	-62.98	-40.00	22.98	Horizontal
6	16486	28.57	-33.93	40.71	-59.91	-40.00	19.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3625	43.67	-45.97	28.73	-68.84	-40.00	28.84	Vertical
2	4610.5	48.86	-45.66	30.54	-61.52	-40.00	21.52	Vertical
3	6916	47.38	-44.01	35.05	-56.84	-40.00	16.84	Vertical
4	9645.5	34.45	-39.57	37.53	-62.85	-40.00	22.85	Vertical
5	14322	27.89	-35.86	41.03	-62.20	-40.00	22.20	Vertical
6	17401	28.93	-35.11	44.10	-57.34	-40.00	17.34	Vertical



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**Test Band = LTE Band 30 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	4615.5	44.09	-45.66	30.55	-66.28	-40.00	26.28	Horizontal
2	6923.5	47.25	-43.97	35.06	-56.92	-40.00	16.92	Horizontal
3	9561	35.27	-39.89	37.37	-62.51	-40.00	22.51	Horizontal
4	11498.5	29.60	-37.31	38.75	-64.22	-40.00	24.22	Horizontal
5	14548.5	27.19	-35.06	41.12	-62.01	-40.00	22.01	Horizontal
6	17329.5	29.39	-35.37	43.78	-57.46	-40.00	17.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	49.54	-45.66	30.55	-60.83	-40.00	20.83	Vertical
2	6923	47.47	-43.97	35.06	-56.70	-40.00	16.70	Vertical
3	8407.5	38.93	-41.46	36.60	-61.20	-40.00	21.20	Vertical
4	11233	30.60	-37.40	38.72	-63.34	-40.00	23.34	Vertical
5	13853	28.12	-35.90	40.64	-62.40	-40.00	22.40	Vertical
6	16951	27.55	-33.79	42.15	-59.35	-40.00	19.35	Vertical



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**Test Band = LTE Band 30 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	4886	43.09	-45.53	31.15	-66.55	-40.00	26.55	Horizontal
2	6931	46.31	-43.93	35.08	-57.80	-40.00	17.80	Horizontal
3	9460.5	35.64	-40.07	37.17	-62.52	-40.00	22.52	Horizontal
4	12727.5	28.31	-36.72	39.02	-64.65	-40.00	24.65	Horizontal
5	15153.5	27.65	-34.40	40.98	-61.03	-40.00	21.03	Horizontal
6	17845.5	30.29	-34.58	46.10	-53.44	-40.00	13.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	48.19	-45.66	30.57	-62.16	-40.00	22.16	Vertical
2	6931	51.12	-43.93	35.08	-52.99	-40.00	12.99	Vertical
3	8405	38.30	-41.46	36.60	-61.82	-40.00	21.82	Vertical
4	10250.5	32.57	-39.29	38.33	-63.66	-40.00	23.66	Vertical
5	13668	27.62	-36.13	40.30	-63.47	-40.00	23.47	Vertical
6	16811	28.25	-34.32	41.71	-59.62	-40.00	19.62	Vertical



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**Test Band = LTE ULCA DC\_2A\_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	3742	46.27	-45.68	28.84	-65.82	-40.00	25.82	Horizontal
2	5613	43.58	-45.04	32.62	-64.10	-40.00	24.10	Horizontal
3	7484	46.50	-43.18	36.56	-55.39	-40.00	15.39	Horizontal
4	9412.5	36.21	-39.88	37.08	-61.85	-40.00	21.85	Horizontal
5	11144.5	31.61	-37.71	38.71	-62.65	-40.00	22.65	Horizontal
6	15154.5	28.41	-34.39	40.98	-60.26	-40.00	20.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742	52.13	-45.68	28.84	-59.96	-40.00	19.96	Vertical
2	5613	47.40	-45.04	32.62	-60.28	-40.00	20.28	Vertical
3	7484.5	50.13	-43.18	36.56	-51.76	-40.00	11.76	Vertical
4	10066	33.70	-39.16	38.23	-62.49	-40.00	22.49	Vertical
5	13857.5	28.48	-35.85	40.64	-61.99	-40.00	21.99	Vertical
6	17581	28.01	-33.59	44.91	-55.92	-40.00	15.92	Vertical



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**Test Band = LTE ULCA DC\_2A\_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	3702.5	47.75	-45.51	28.80	-64.22	-40.00	24.22	Horizontal
2	5538	41.58	-45.18	32.61	-66.25	-40.00	26.25	Horizontal
3	7404.5	47.11	-43.40	36.33	-55.22	-40.00	15.22	Horizontal
4	9997	33.44	-39.24	38.19	-62.87	-40.00	22.87	Horizontal
5	15332	28.01	-34.12	40.60	-60.77	-40.00	20.77	Horizontal
6	17974	30.25	-34.56	46.68	-52.89	-40.00	12.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702	52.95	-45.51	28.80	-59.02	-40.00	19.02	Vertical
2	5553	49.22	-45.15	32.61	-58.58	-40.00	18.58	Vertical
3	7404.5	54.99	-43.40	36.33	-47.34	-40.00	7.34	Vertical
4	9429.5	35.74	-39.95	37.12	-62.35	-40.00	22.35	Vertical
5	11454	30.25	-37.34	38.75	-63.60	-40.00	23.60	Vertical
6	16923.5	28.40	-34.13	42.06	-58.93	-40.00	18.93	Vertical



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**Test Band = LTE ULCA DC\_2A\_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	3782.5	47.83	-45.85	28.88	-64.39	-40.00	24.39	Horizontal
2	5545	41.91	-45.16	32.61	-65.90	-40.00	25.90	Horizontal
3	7564.5	44.46	-43.00	36.63	-57.18	-40.00	17.18	Horizontal
4	11218	30.62	-37.40	38.72	-63.31	-40.00	23.31	Horizontal
5	15153.5	27.17	-34.40	40.98	-61.51	-40.00	21.51	Horizontal
6	17537.5	28.07	-34.40	44.72	-56.87	-40.00	16.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782	54.34	-45.84	28.88	-57.88	-40.00	17.88	Vertical
2	5673	43.53	-44.91	32.63	-64.00	-40.00	24.00	Vertical
3	7564	50.45	-43.01	36.63	-51.19	-40.00	11.19	Vertical
4	10013.5	32.93	-39.22	38.21	-63.35	-40.00	23.35	Vertical
5	13346	27.71	-36.62	39.72	-64.45	-40.00	24.45	Vertical
6	17111.5	28.34	-34.51	42.80	-58.63	-40.00	18.63	Vertical



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**Test Band = UL CA Band 4A-30A\_ TM1**
**Test Channel = Low Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1429	54.43	-111.71	-57.28	-40.00	17.28	231	196	Horizontal
2	4610.68	48.89	-108.05	-59.16	-40.00	19.16	142	208	Horizontal
3	5133.27	50.12	-106.90	-56.78	-40.00	16.78	265	172	Horizontal
4	6844.36	49.18	-101.87	-52.69	-40.00	12.69	284	220	Horizontal
5	6916.02	48.13	-101.68	-53.55	-40.00	13.55	175	244	Horizontal
6	9221.36	48.04	-95.08	-47.04	-40.00	7.04	241	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1429	55.03	-111.71	-56.68	-40.00	16.68	214	161	Vertical
2	4610.68	50.75	-108.05	-57.30	-40.00	17.30	176	3	Vertical
3	5133.27	50.21	-106.90	-56.69	-40.00	16.69	284	58	Vertical
4	6844.36	49.21	-101.87	-52.66	-40.00	12.66	178	301	Vertical
5	6916.02	47.74	-101.68	-53.94	-40.00	13.94	265	277	Vertical
6	9221.36	46.98	-95.08	-48.10	-40.00	8.10	244	68	Vertical



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**Test Band = UL CA Band 4A-30A\_ TM1**
**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	55.44	-111.65	-56.21	-40.00	16.21	263	197	Horizontal
2	4615.68	49.23	-108.03	-58.80	-40.00	18.80	241	355	Horizontal
3	5170.77	49.46	-106.85	-57.39	-40.00	17.39	176	242	Horizontal
4	6894.36	48.54	-101.70	-53.16	-40.00	13.16	284	206	Horizontal
5	6923.52	47.60	-101.68	-54.08	-40.00	14.08	186	300	Horizontal
6	9231.36	47.42	-95.08	-47.66	-40.00	7.66	264	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	55.83	-111.65	-55.82	-40.00	15.82	263	150	Vertical
2	4615.68	49.66	-108.03	-58.37	-40.00	18.37	241	3	Vertical
3	5170.77	49.61	-106.85	-57.24	-40.00	17.24	175	324	Vertical
4	6894.36	47.38	-101.70	-54.32	-40.00	14.32	265	343	Vertical
5	6923.52	48.62	-101.68	-53.06	-40.00	13.06	248	312	Vertical
6	9231.36	48.51	-95.08	-46.57	-40.00	6.57	254	360	Vertical



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**Test Band = UL CA Band 4A-30A\_ TM1**
**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	54.53	-111.60	-57.07	-40.00	17.07	263	197	Horizontal
2	4620.68	49.61	-108.00	-58.39	-40.00	18.39	241	185	Horizontal
3	5208.27	50.94	-106.80	-55.86	-40.00	15.86	178	232	Horizontal
4	6931.02	47.97	-101.68	-53.71	-40.00	13.71	265	46	Horizontal
5	6944.36	48.28	-101.67	-53.39	-40.00	13.39	241	34	Horizontal
6	9241.32	47.57	-95.08	-47.51	-40.00	7.51	178	355	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	53.75	-111.60	-57.85	-40.00	17.85	263	185	Vertical
2	4620.68	50.47	-108.00	-57.53	-40.00	17.53	241	360	Vertical
3	5208.27	50.77	-106.80	-56.03	-40.00	16.03	176	254	Vertical
4	6931.02	48.83	-101.68	-52.85	-40.00	12.85	284	3	Vertical
5	6944.36	47.50	-101.67	-54.17	-40.00	14.17	177	360	Vertical
6	9241.32	47.09	-95.08	-47.99	-40.00	7.99	268	290	Vertical



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**Test Band = UL CA Band 12A-30A\_ TM1**
**Test Channel = Low Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	40.73	-95.67	-54.94	-40.00	14.94	263	198	Horizontal
2	2098.77	41.70	-93.07	-51.37	-40.00	11.37	241	147	Horizontal
3	2798.36	40.02	-90.04	-50.02	-40.00	10.02	176	292	Horizontal
4	4610.68	49.83	-108.05	-58.22	-40.00	18.22	284	234	Horizontal
5	6916.02	49.20	-101.68	-52.48	-40.00	12.48	178	0	Horizontal
6	9221.36	47.87	-95.08	-47.21	-40.00	7.21	266	338	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	41.51	-95.67	-54.16	-40.00	14.16	263	360	Vertical
2	2098.77	40.85	-93.07	-52.22	-40.00	12.22	251	83	Vertical
3	2798.36	40.06	-90.04	-49.98	-40.00	9.98	174	241	Vertical
4	4610.68	49.21	-108.05	-58.84	-40.00	18.84	262	248	Vertical
5	6916.02	49.70	-101.68	-51.98	-40.00	11.98	284	0	Vertical
6	9221.36	47.48	-95.08	-47.60	-40.00	7.60	178	84	Vertical



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**Test Band = UL CA Band 12A-30A\_ TM1**
**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	41.41	-95.64	-54.23	-40.00	14.23	263	3	Horizontal
2	2109.27	40.22	-93.05	-52.83	-40.00	12.83	251	93	Horizontal
3	2812.36	40.15	-89.95	-49.80	-40.00	9.80	174	260	Horizontal
4	4615.68	50.44	-108.03	-57.59	-40.00	17.59	262	164	Horizontal
5	6923.52	49.03	-101.68	-52.65	-40.00	12.65	284	117	Horizontal
6	9231.36	47.48	-95.08	-47.60	-40.00	7.60	186	315	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	41.09	-95.64	-54.55	-40.00	14.55	263	291	Vertical
2	2109.27	40.30	-93.05	-52.75	-40.00	12.75	255	187	Vertical
3	2812.36	40.31	-89.95	-49.64	-40.00	9.64	175	359	Vertical
4	4615.68	50.13	-108.03	-57.90	-40.00	17.90	263	357	Vertical
5	6923.52	48.11	-101.68	-53.57	-40.00	13.57	362	178	Vertical
6	9231.36	47.52	-95.08	-47.56	-40.00	7.56	261	0	Vertical



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**Test Band = UL CA Band 12A-30A\_ TM1**
**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	40.60	-95.62	-55.02	-40.00	15.02	263	190	Horizontal
2	2119.77	41.60	-93.02	-51.42	-40.00	11.42	241	284	Horizontal
3	2826.36	40.88	-89.86	-48.98	-40.00	8.98	176	31	Horizontal
4	4620.68	49.14	-108.00	-58.86	-40.00	18.86	263	187	Horizontal
5	6931.02	49.23	-101.68	-52.45	-40.00	12.45	241	96	Horizontal
6	9241.32	47.81	-95.08	-47.27	-40.00	7.27	178	263	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	41.78	-95.62	-53.84	-40.00	13.84	265	92	Vertical
2	2119.77	42.62	-93.02	-50.40	-40.00	10.40	241	135	Vertical
3	2826.36	39.66	-89.86	-50.20	-40.00	10.20	175	360	Vertical
4	4620.68	50.18	-108.00	-57.82	-40.00	17.82	265	0	Vertical
5	6931.02	48.31	-101.68	-53.37	-40.00	13.37	284	39	Vertical
6	9241.32	47.25	-95.08	-47.83	-40.00	7.83	178	337	Vertical



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**Test Band = UL CA Band 14A-30A\_ TM1**
**Test Channel = Low Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	40.76	-95.14	-54.38	-40.00	14.38	263	227	Horizontal
2	2365.02	42.74	-92.10	-49.36	-40.00	9.36	241	301	Horizontal
3	3153.36	51.22	-111.47	-60.25	-40.00	20.25	265	92	Horizontal
4	4610.68	50.48	-108.05	-57.57	-40.00	17.57	251	360	Horizontal
5	6916.02	49.68	-101.68	-52.00	-40.00	12.00	174	344	Horizontal
6	9221.36	46.87	-95.08	-48.21	-40.00	8.21	162	102	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	40.27	-95.14	-54.87	-40.00	14.87	263	228	Vertical
2	2365.02	40.29	-92.10	-51.81	-40.00	11.81	251	58	Vertical
3	3153.36	52.04	-111.47	-59.43	-40.00	19.43	176	324	Vertical
4	4610.68	49.49	-108.05	-58.56	-40.00	18.56	241	359	Vertical
5	6916.02	48.80	-101.68	-52.88	-40.00	12.88	186	324	Vertical
6	9221.36	47.83	-95.08	-47.25	-40.00	7.25	244	288	Vertical



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**Test Band = UL CA Band 14A-30A\_ TM1**
**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	40.58	-95.13	-54.55	-40.00	14.55	263	308	Horizontal
2	2372.52	41.35	-92.07	-50.72	-40.00	10.72	241	89	Horizontal
3	3163.36	52.05	-111.44	-59.39	-40.00	19.39	176	233	Horizontal
4	4615.68	48.98	-108.03	-59.05	-40.00	19.05	284	197	Horizontal
5	6923.52	47.58	-101.68	-54.10	-40.00	14.10	176	360	Horizontal
6	9231.36	46.39	-95.08	-48.69	-40.00	8.69	241	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	41.08	-95.13	-54.05	-40.00	14.05	263	50	Vertical
2	2372.52	40.57	-92.07	-51.50	-40.00	11.50	241	102	Vertical
3	3163.36	51.89	-111.44	-59.55	-40.00	19.55	176	277	Vertical
4	4615.68	49.46	-108.03	-58.57	-40.00	18.57	263	359	Vertical
5	6923.52	49.85	-101.68	-51.83	-40.00	11.83	241	301	Vertical
6	9231.36	47.52	-95.08	-47.56	-40.00	7.56	178	94	Vertical



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**Test Band = UL CA Band 14A-30A\_ TM1**
**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.68	40.12	-95.12	-55.00	-40.00	15.00	263	329	Horizontal
2	2380.02	40.60	-92.04	-51.44	-40.00	11.44	241	277	Horizontal
3	3173.36	51.01	-111.41	-60.40	-40.00	20.40	176	209	Horizontal
4	4620.68	49.10	-108.00	-58.90	-40.00	18.90	265	47	Horizontal
5	6931.02	48.35	-101.68	-53.33	-40.00	13.33	284	105	Horizontal
6	9241.32	47.58	-95.08	-47.50	-40.00	7.50	188	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.68	40.27	-95.12	-54.85	-40.00	14.85	263	6	Vertical
2	2380.02	40.30	-92.04	-51.74	-40.00	11.74	251	173	Vertical
3	3173.36	51.44	-111.41	-59.97	-40.00	19.97	174	359	Vertical
4	4620.68	49.58	-108.00	-58.42	-40.00	18.42	263	286	Vertical
5	6931.02	49.37	-101.68	-52.31	-40.00	12.31	241	343	Vertical
6	9241.32	47.37	-95.08	-47.71	-40.00	7.71	177	157	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	-0.30	-0.000130	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	0.30	0.000130	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	0.90	0.000390	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	0.20	0.000087	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-0.50	-0.000216	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	0.60	0.000260	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-1.60	-0.000693	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-0.70	-0.000303	PASS

---End of Attachment---



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