

Report No.: SEWM2312000502RG01

Rev.: 01

Page: 1 of 31

# Appendix B.14

## 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	22.32	20.68	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.56	20.92	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.28	20.64	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.46	19.82	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.32	20.68	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.60	20.96	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.30	20.66	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.50	19.86	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.29	20.65	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.61	20.97	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.32	20.68	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.52	19.88	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.56	19.92	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.76	20.12	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.59	19.95	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.45	18.81	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.61	19.97	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.88	20.24	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.58	19.94	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.47	18.83	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.49	19.85	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.87	20.23	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.60	19.96	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.50	18.86	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.45	18.81	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.73	19.09	23.98	PASS



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Report No.: SEWM2312000502RG01

Rev.: 01

Page: 3 of 31

Band30	5MHz	64QAM	27685	1RB#24	20.50	18.86	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.43	17.79	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.46	18.82	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.68	19.04	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.50	18.86	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.46	17.82	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.47	18.83	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.80	19.16	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.51	18.87	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.47	17.83	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.36	20.72	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.47	20.83	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.39	20.75	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.50	19.86	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.56	19.92	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.64	20.00	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.70	20.06	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.45	18.81	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.51	18.87	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.65	19.01	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.57	18.93	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.43	17.79	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	22.52	20.88	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.71	21.07	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.66	21.02	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.62	20.98	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.81	21.17	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.78	21.14	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.72	21.08	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.95	21.31	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.84	21.20	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.67	21.03	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.00	21.36	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.94	21.30	23.98	PASS

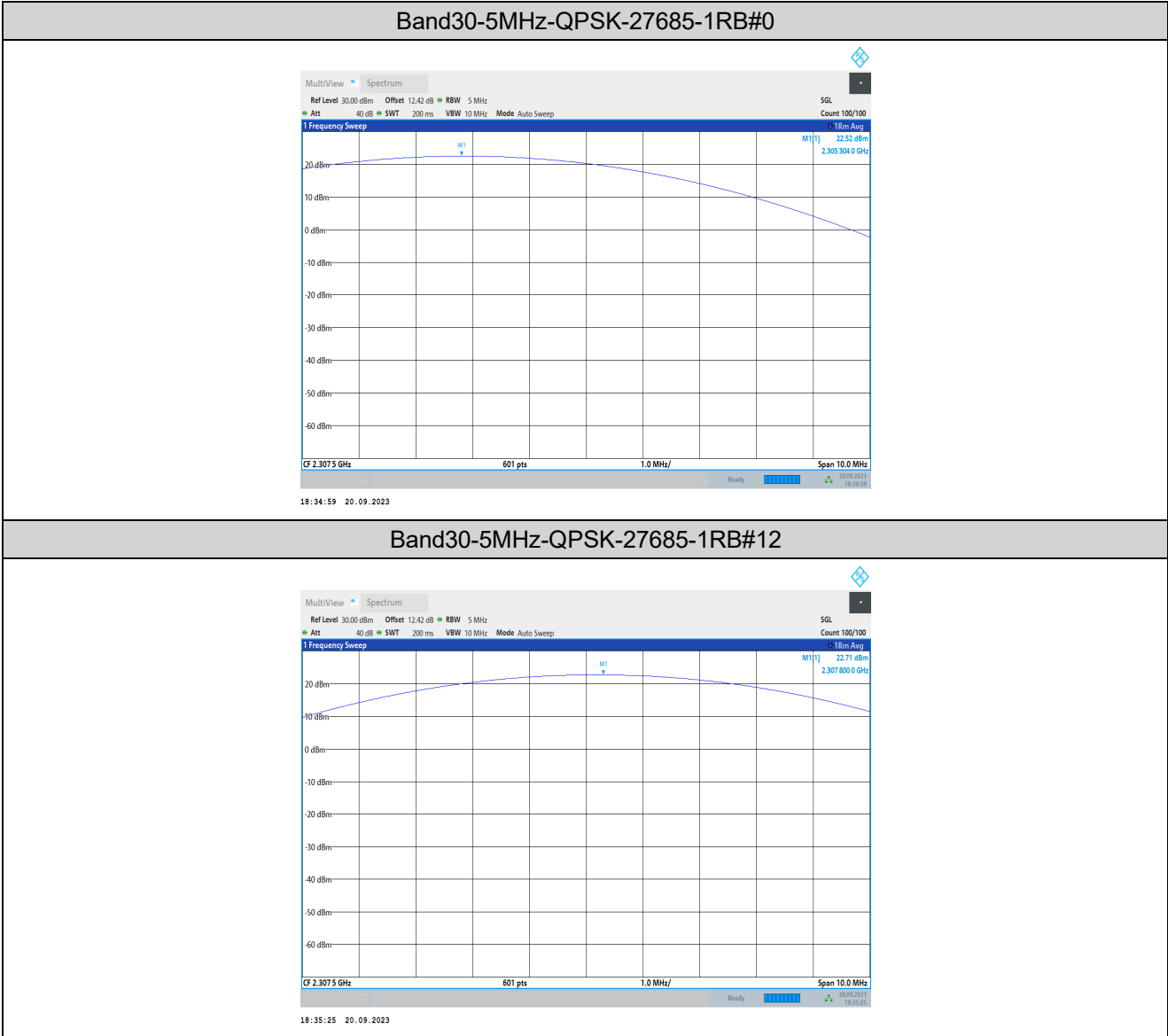


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Test plots

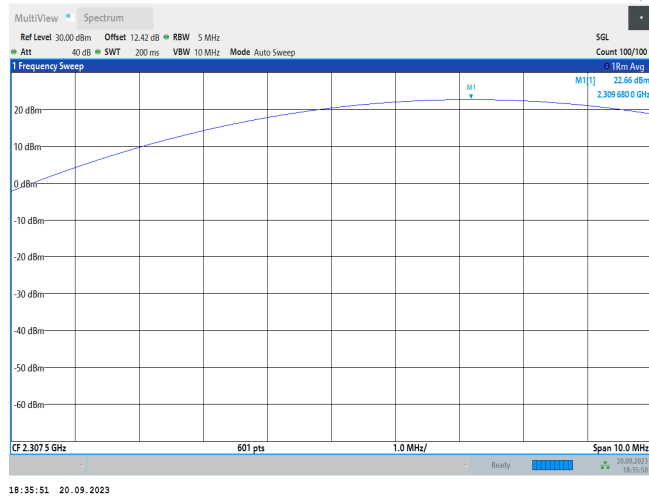


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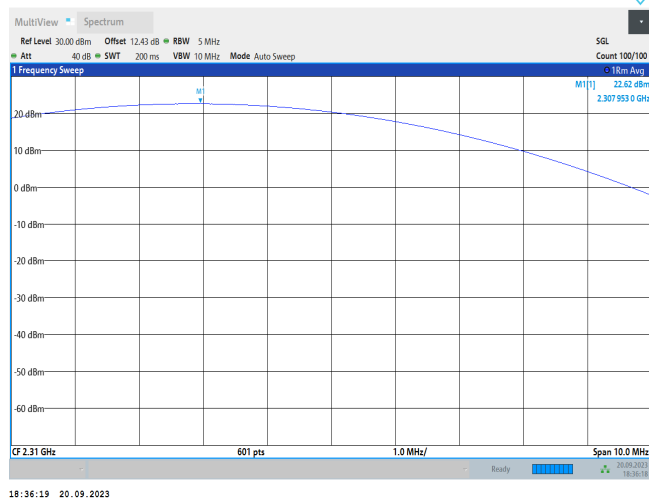
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Band30-5MHz-QPSK-27685-1RB#24



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



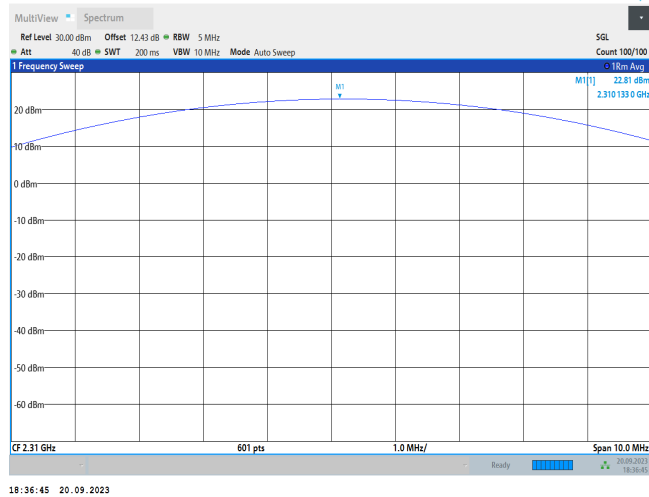
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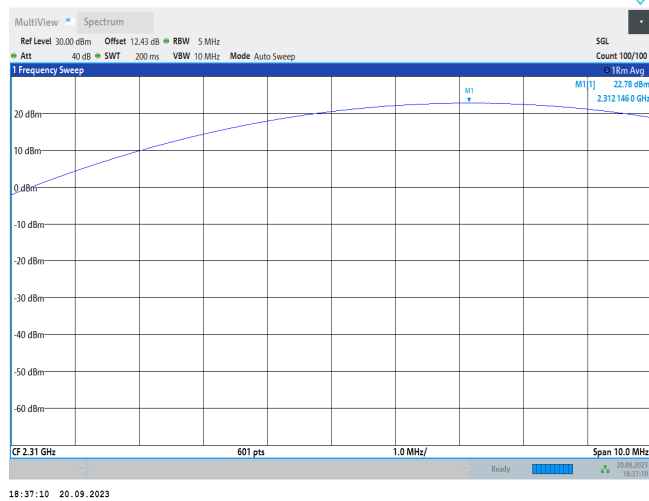
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Band30-5MHz-QPSK -27710-1RB#12



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

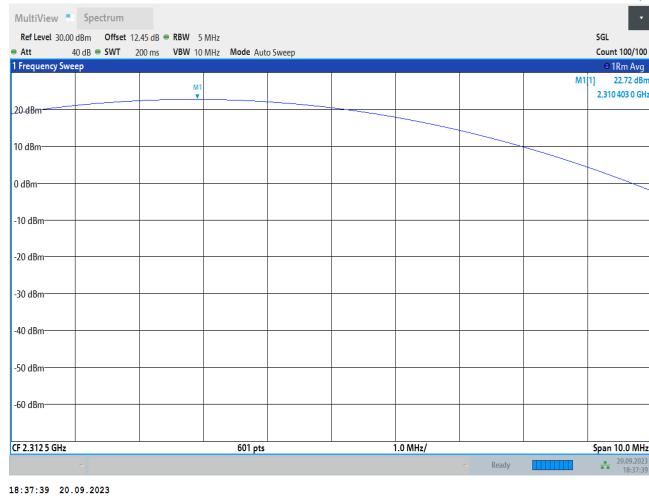


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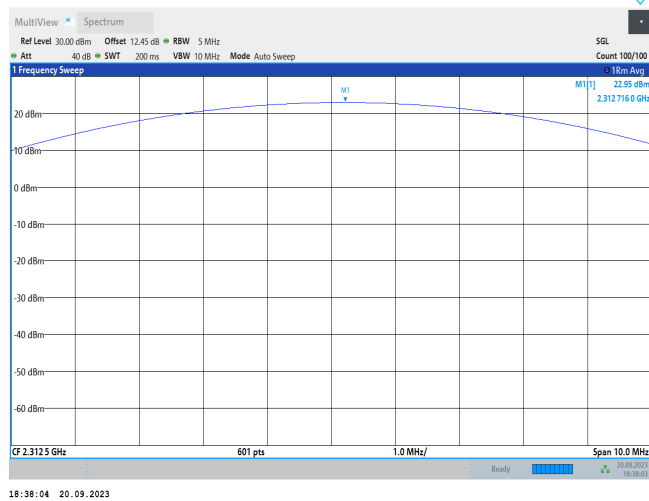
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Band30-5MHz-QPSK-27735-1RB#12



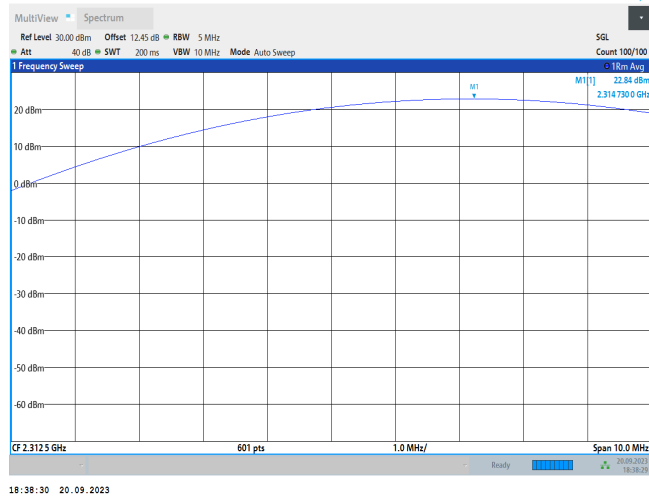
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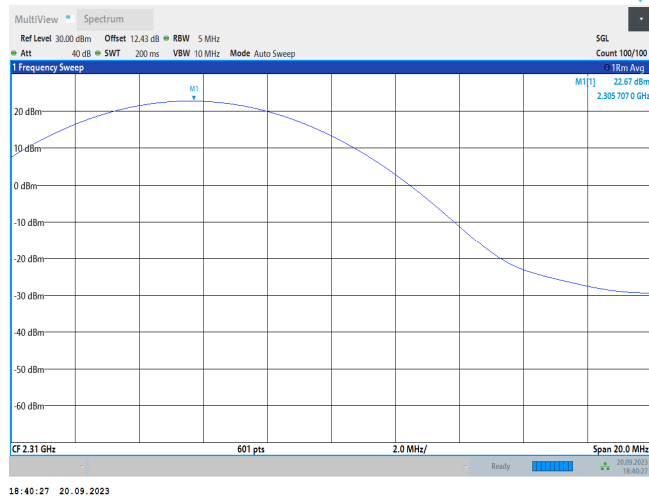
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Band30-5MHz-QPSK -27735-1RB#24



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

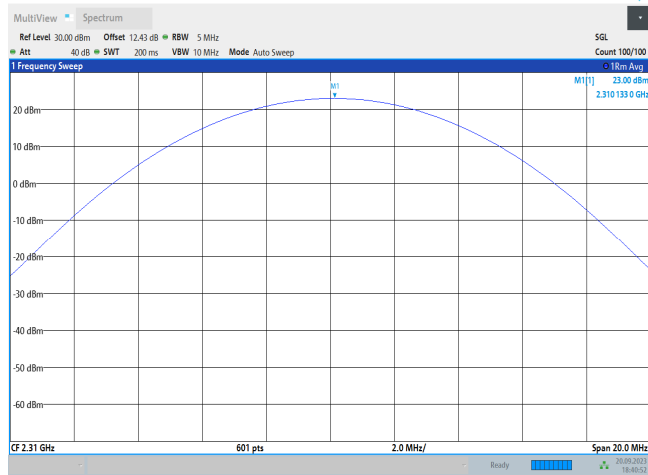


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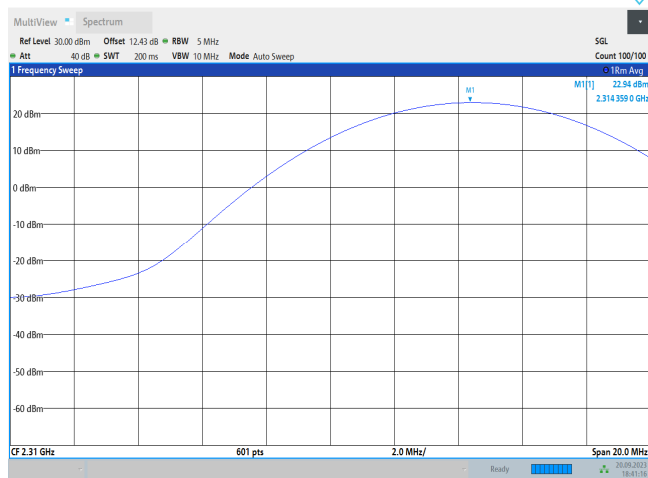
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Band30-10MHz-QPSK-27710-1RB#24



18:40:52 20.09.2023

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18:41:17 20.09.2023



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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	2.52	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	3.78	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	2.78	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	3.88	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	2.84	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	4.22	13	PASS

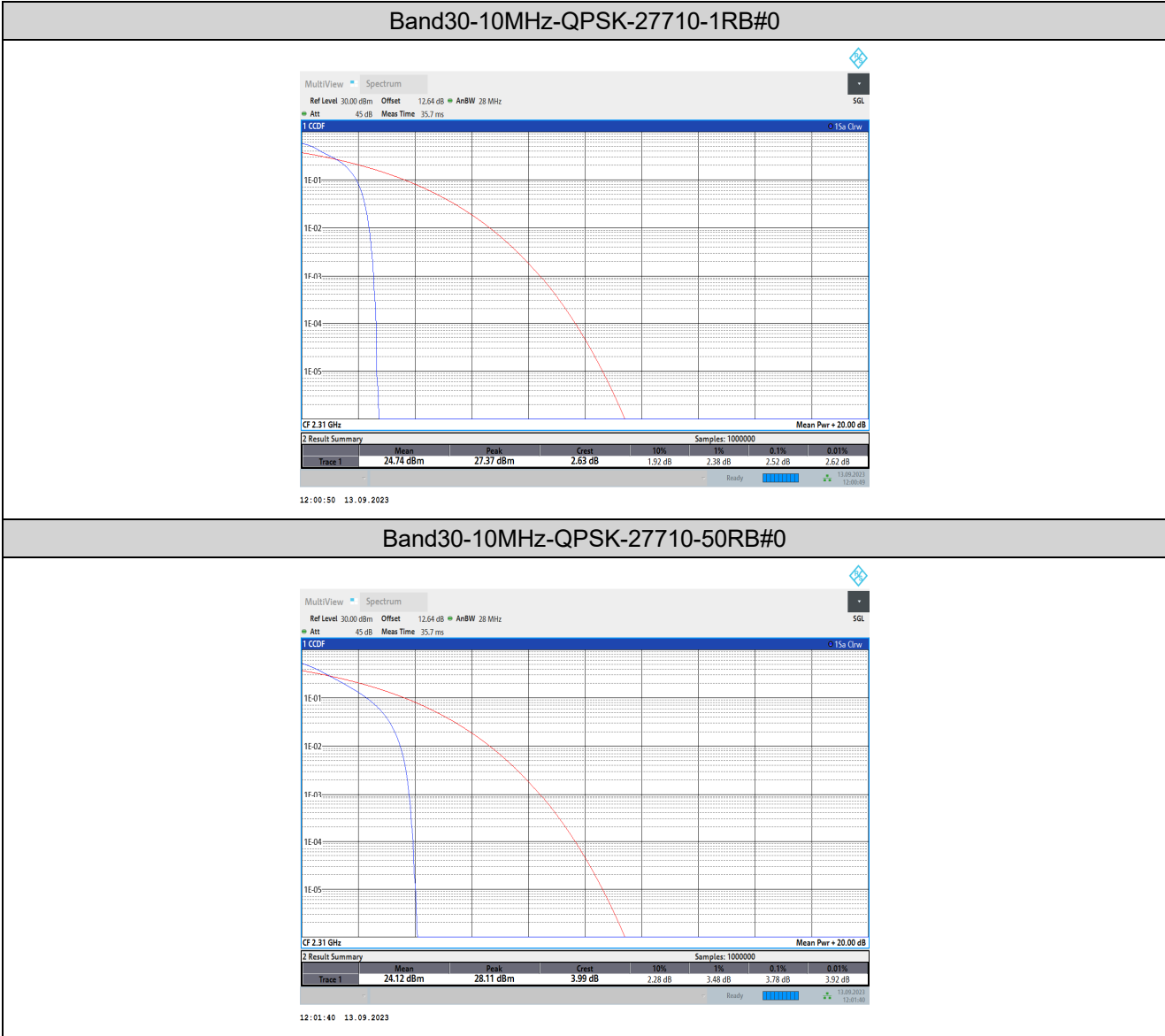


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Test Graphs

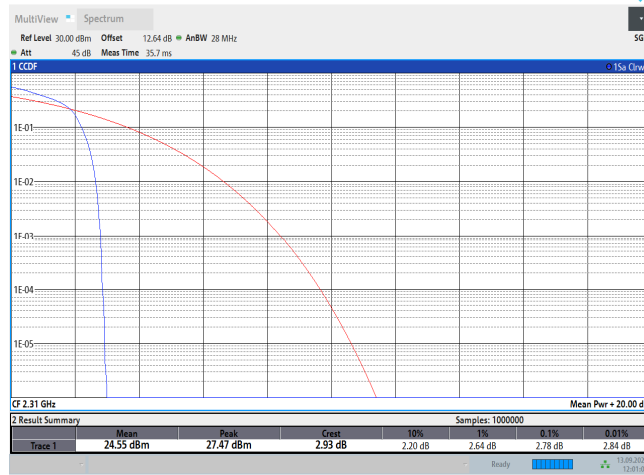


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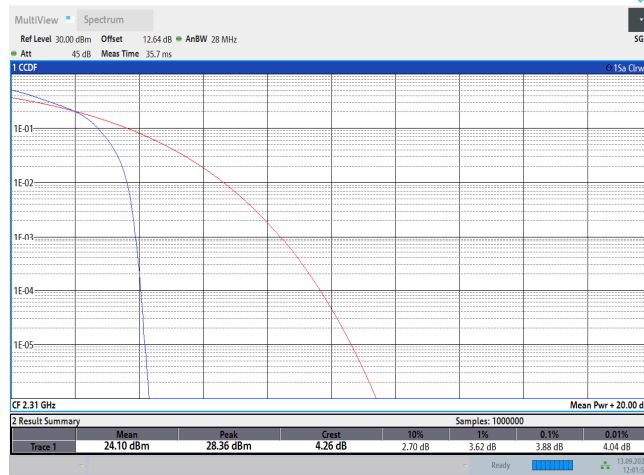
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Band30-10MHz-16QAM-27710-1RB#0



12:01:07 13.09.2023

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



12:01:57 13.09.2023

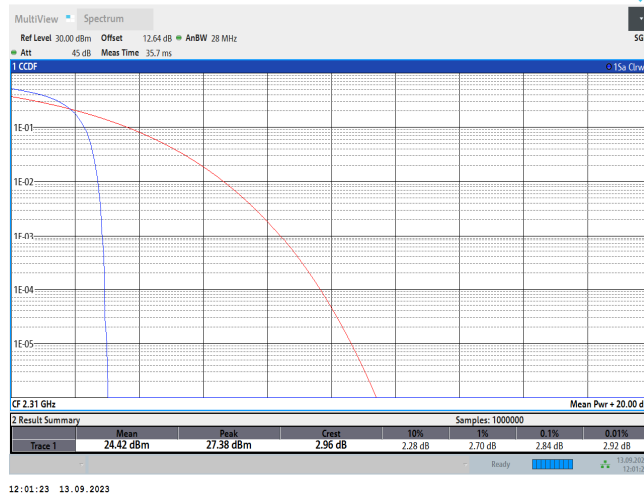


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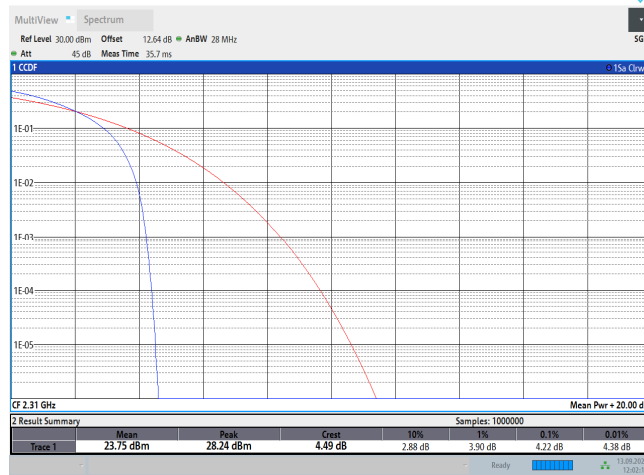
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Band30-10MHz-64QAM-27710-1RB#0



12:01:23 13.09.2023

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



12:02:13 13.09.2023



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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	4.487	4.86	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.495	4.77	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.499	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.49	4.76	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.497	4.77	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.495	4.77	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.503	4.77	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.505	4.78	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.51	4.77	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.975	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.974	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.984	9.53	PASS



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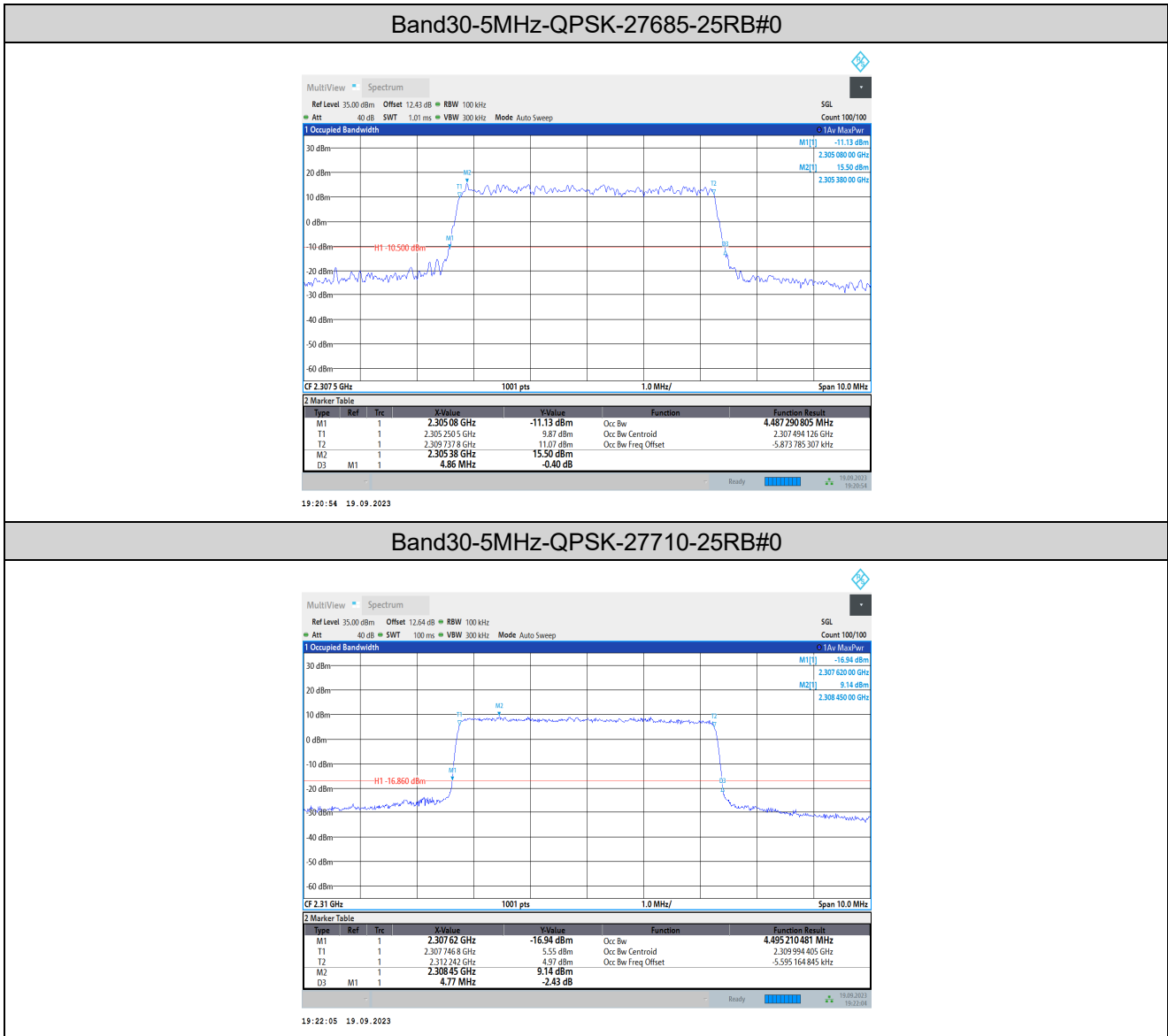
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Test Graphs



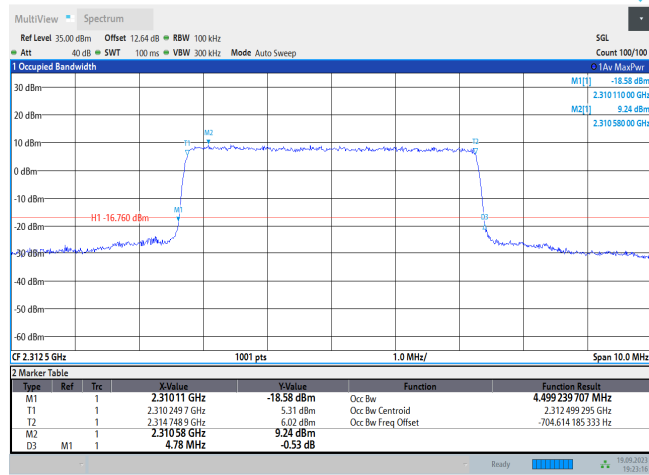
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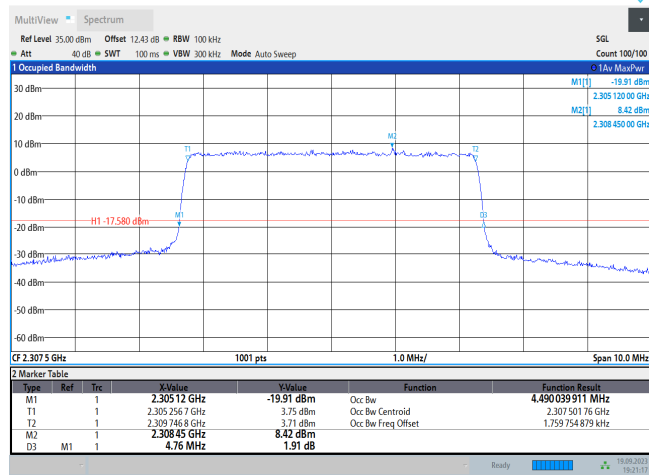


Band30-5MHz-QPSK-27735-25RB#0



19:23:17 19.09.2023

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



19:21:18 19.09.2023

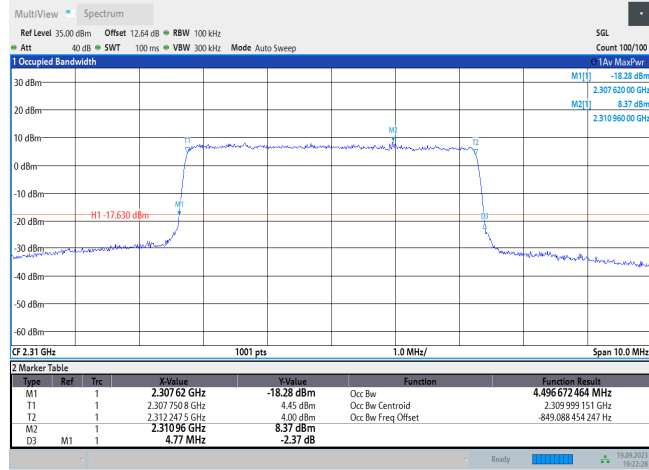


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Band30-5MHz-16QAM-27710-25RB#0



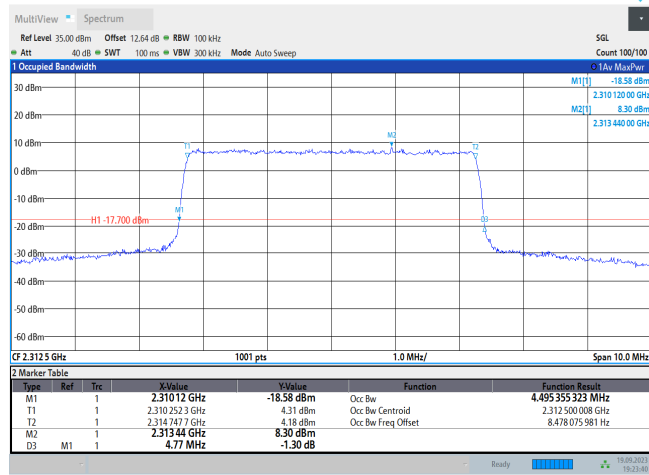
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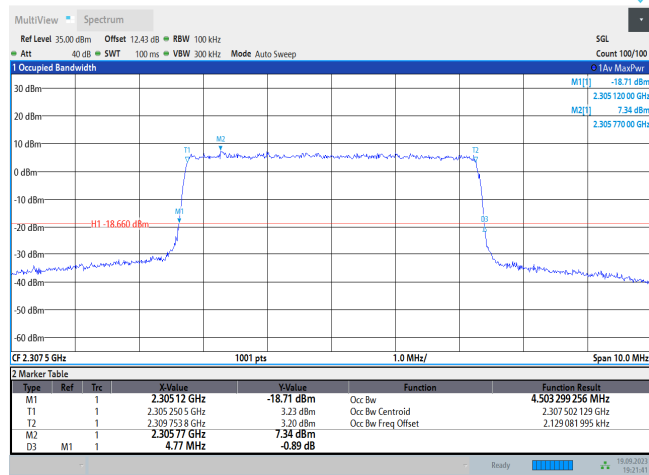
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Band30-5MHz-16QAM-27735-25RB#0



19:23:41 19.09.2023

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



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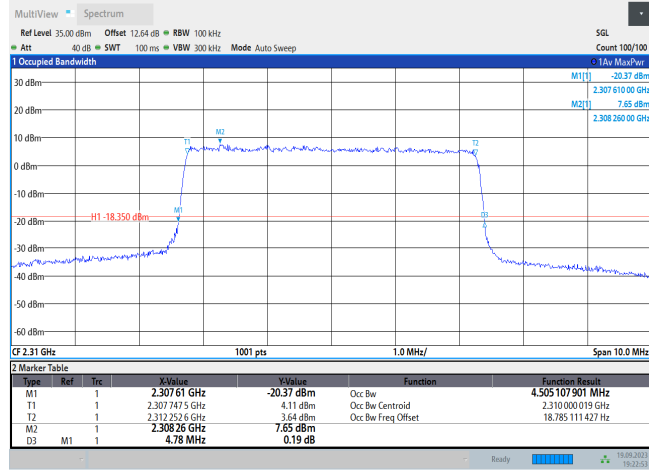


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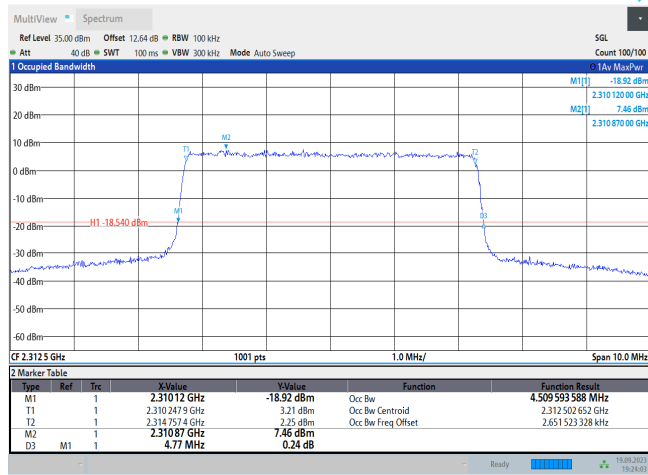
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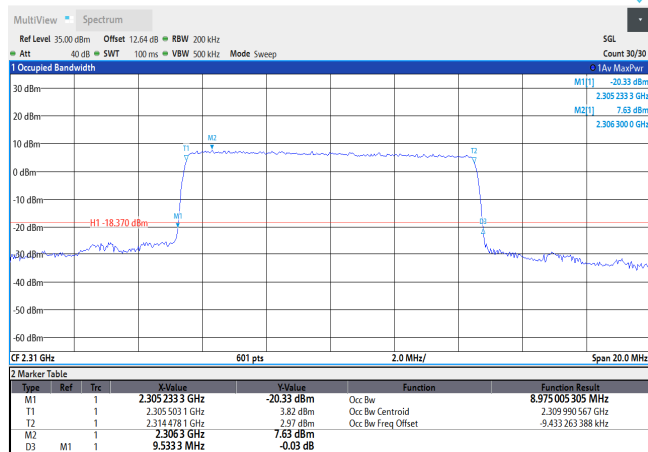
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Band30-5MHz-64QAM-27735-25RB#0



19:24:04 19.09.2023

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



19:32:37 19.09.2023

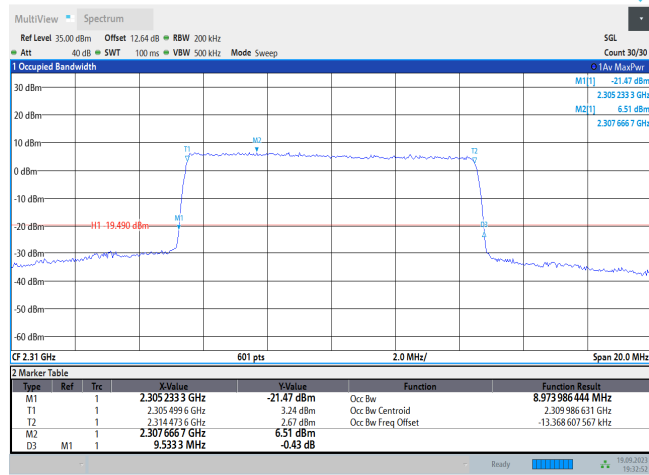


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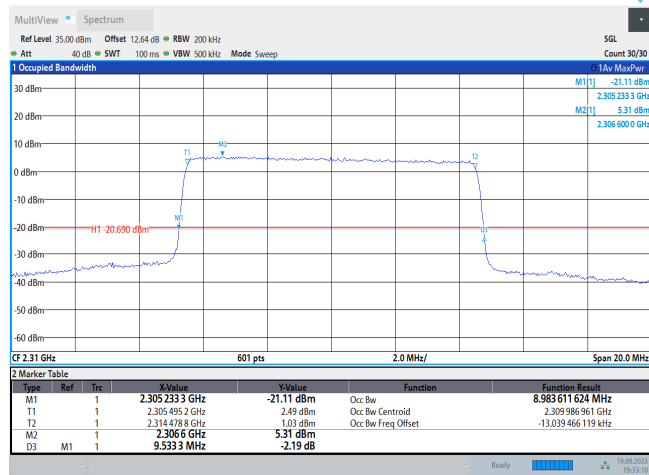
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Band30-10MHz-16QAM-27710-50RB#0



19:32:53 19.09.2023

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



19:33:10 19.09.2023



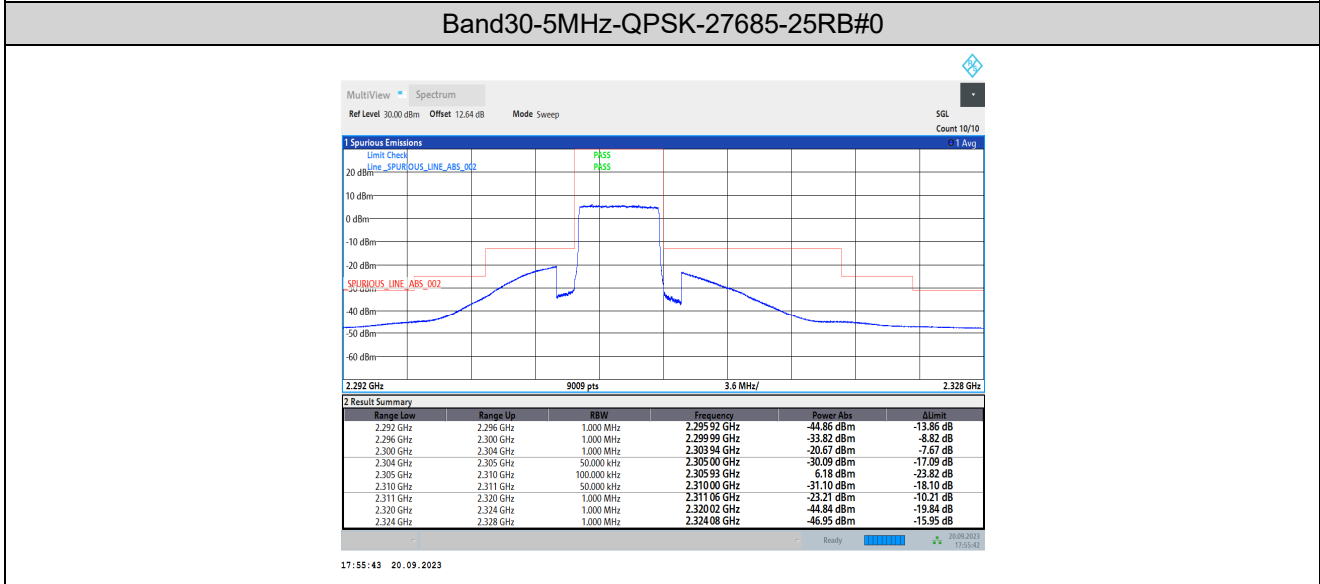
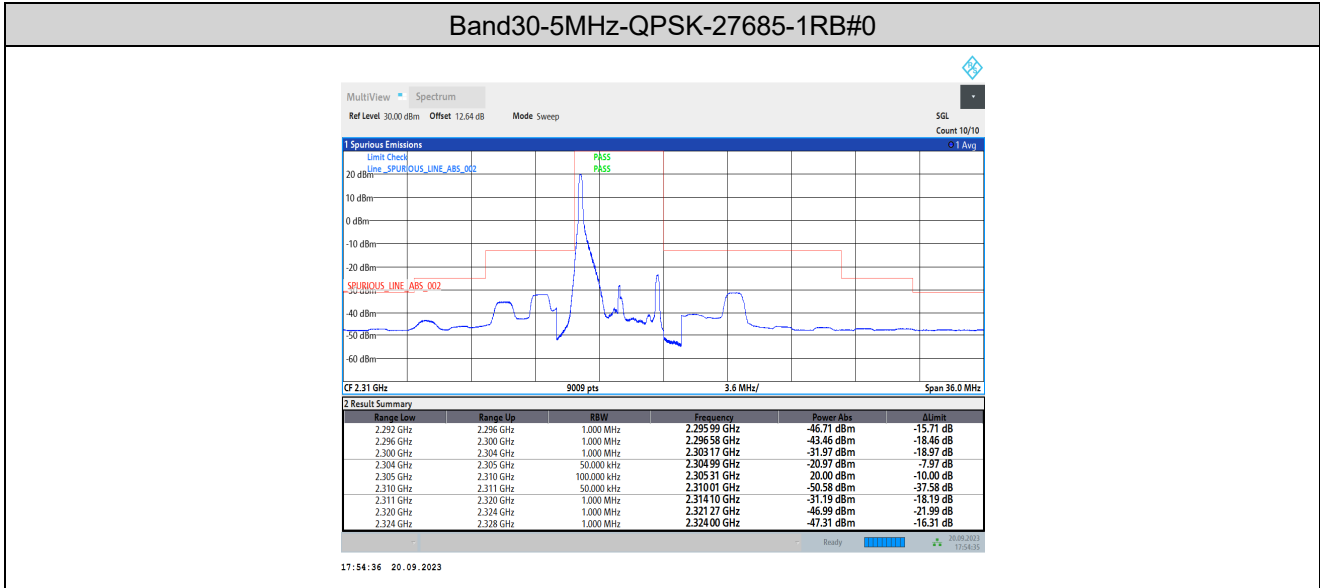
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# Band Edge

# Test Graphs

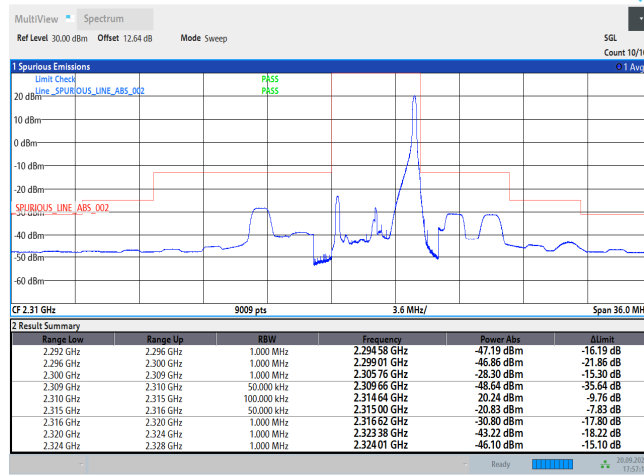


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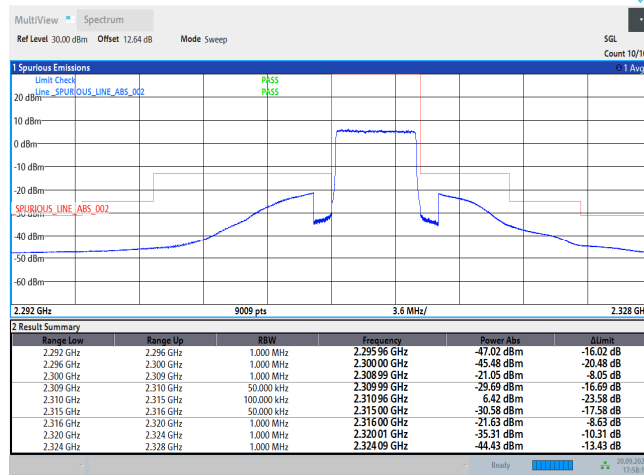
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Band30-5MHz-QPSK-27735-1RB#24



17:57:11 20.09.2023

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



17:58:12 20.09.2023



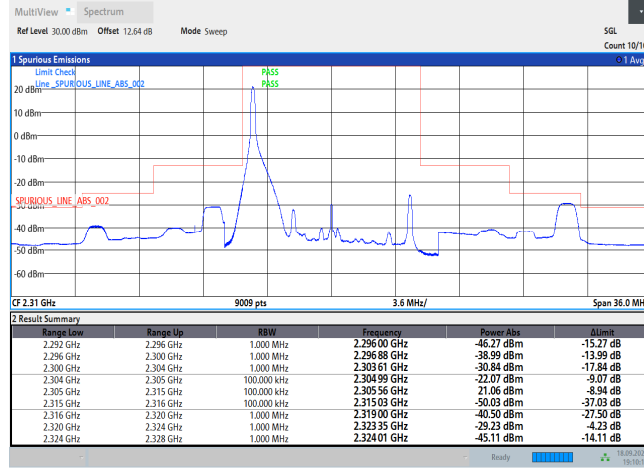
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Band30-10MHz-QPSK-27710-1RB#0



19:10:12 18.09.2023

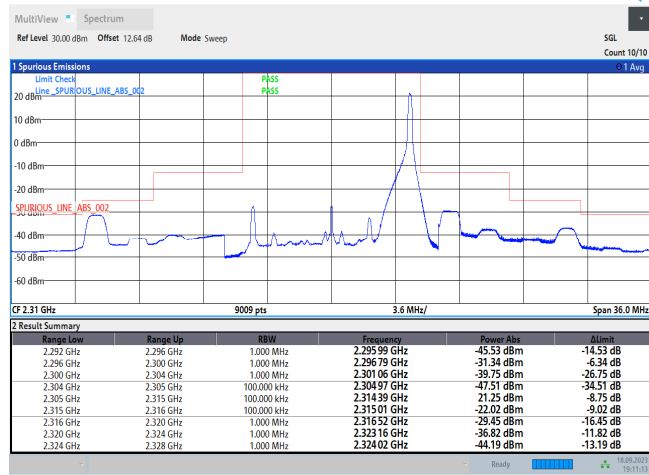


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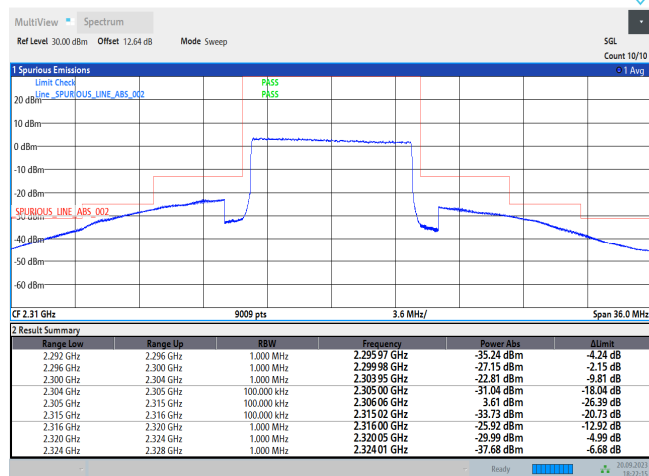
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Band30-10MHz-QPSK-27710-1RB#49



19:11:13 18.09.2023

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



18:22:16 20.09.2023



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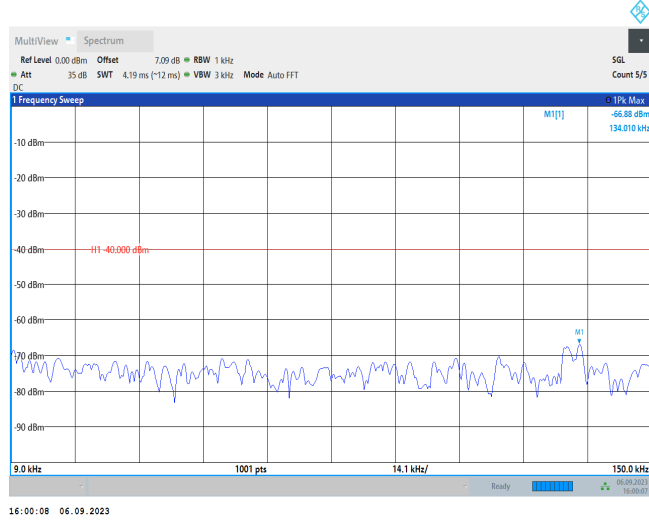
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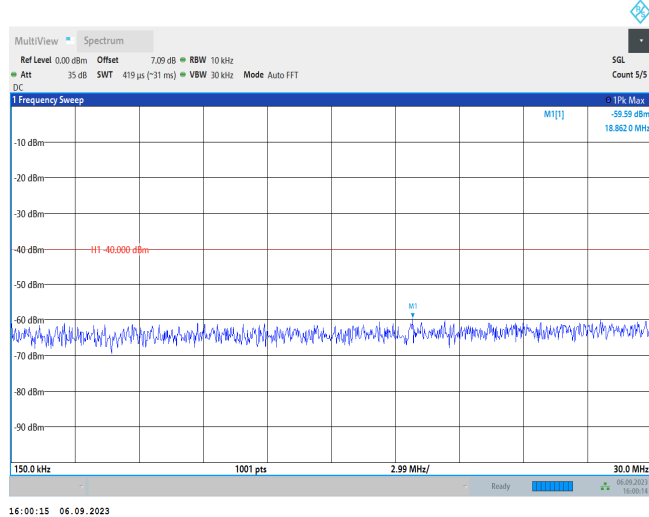
## Conducted Spurious Emission

### 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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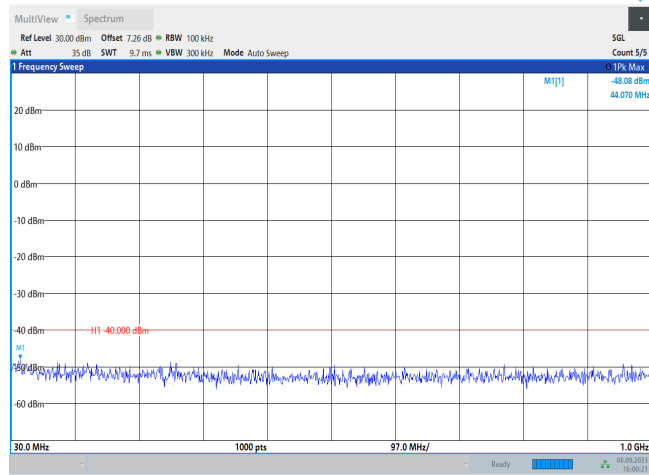
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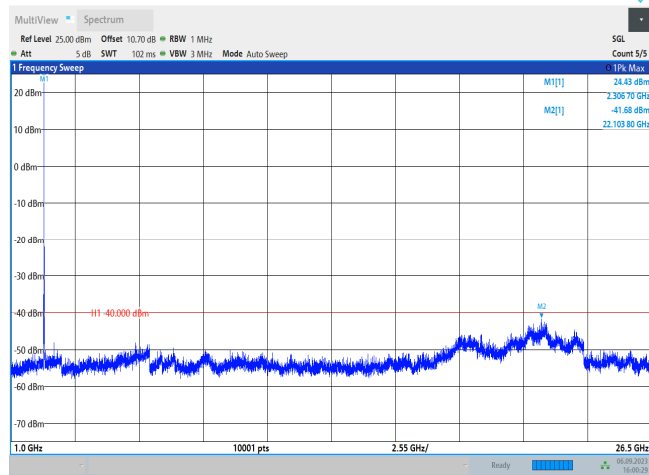
Member of the SGS Group (SGS SA)

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



16:00:22 06.09.2023

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



16:00:30 06.09.2023



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**Field Strength of Spurious Radiation(SKU3):**

**Test Band = LTE Band 30 10M\_ TM1**

**Test Channel = Mid Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	46.25	-48.00	30.57	-66.44	-40.00	26.44	Horizontal
2	6916.77	44.17	-46.71	35.42	-62.38	-40.00	22.38	Horizontal
3	9222.36	40.36	-43.39	37.80	-60.49	-40.00	20.49	Horizontal
4	11527.95	37.55	-39.98	39.29	-58.39	-40.00	18.39	Horizontal
5	13833.54	36.46	-38.91	40.52	-57.20	-40.00	17.20	Horizontal
6	16139.13	36.35	-37.96	38.30	-58.57	-40.00	18.57	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611.18	49.56	-48.00	30.57	-63.13	-40.00	23.13	Vertical
2	6916.77	43.47	-46.71	35.42	-63.08	-40.00	23.08	Vertical
3	9222.36	40.31	-43.39	37.80	-60.54	-40.00	20.54	Vertical
4	11527.95	37.48	-39.98	39.29	-58.46	-40.00	18.46	Vertical
5	13833.54	37.31	-38.91	40.52	-56.35	-40.00	16.35	Vertical
6	16139.13	36.06	-37.96	38.30	-58.86	-40.00	18.86	Vertical



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**Test Band = LTE Band 30 5M\_ TM1**

**Test Channel = Mid Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.68	50.92	-47.99	30.58	-61.76	-40.00	12.76	Horizontal
2	6923.52	43.45	-46.70	35.43	-63.08	-40.00	23.08	Horizontal
3	9231.36	40.48	-43.33	37.81	-60.30	-40.00	20.30	Horizontal
4	11539.2	38.09	-39.95	39.29	-57.82	-40.00	17.82	Horizontal
5	13847.04	36.98	-38.88	40.55	-56.61	-40.00	16.61	Horizontal
6	16154.88	36.86	-37.91	38.31	-58.00	-40.00	18.00	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	58.69	-47.99	30.59	-53.97	-40.00	11.97	Vertical
2	6923.52	43.30	-46.70	35.43	-63.23	-40.00	23.23	Vertical
3	9231.36	40.39	-43.33	37.81	-60.39	-40.00	20.39	Vertical
4	11539.2	37.93	-39.95	39.29	-57.98	-40.00	17.98	Vertical
5	13847.04	37.12	-38.88	40.55	-56.47	-40.00	16.47	Vertical
6	16154.88	36.27	-37.91	38.31	-58.59	-40.00	18.59	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
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-10.09	-0.004368	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-13.66	-0.005913	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-9.07	-0.003926	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-6.18	-0.002675	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	6.90	0.002987	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-9.88	-0.004277	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-13.06	-0.005654	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-8.55	-0.003701	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	30	-8.17	-0.003198	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	40	-12.16	-0.005450	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	50	-9.04	-0.006024	PASS

---End of Attachment---



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