

Appendix B.13

LTE Band 30



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	23.16	17.46	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.09	17.39	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.13	17.43	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.2	16.5	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.26	17.56	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.26	17.56	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.98	17.28	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.06	16.36	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.41	17.71	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.01	17.31	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.89	17.19	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	22.07	16.37	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.52	16.82	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.18	16.48	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.06	16.36	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.16	15.46	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.4	16.7	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.25	16.55	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.11	16.41	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	21.05	15.35	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.07	16.37	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.19	16.49	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.08	16.38	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	21.12	15.42	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	21.39	15.69	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.3	15.6	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.33	15.63	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	20.18	14.48	23.98	PASS



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Band30	5MHz	64QAM	27710	1RB#0	21.37	15.67	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.32	15.62	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	21.15	15.45	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	20.07	14.37	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	21.26	15.56	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.38	15.68	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	21.14	15.44	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	20.1	14.4	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	18.21	12.51	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	18.53	12.83	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	18.17	12.47	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	18.19	12.49	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	18.12	12.42	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	18.18	12.48	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.97	12.27	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	18.04	12.34	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	18.07	12.37	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	18.21	12.51	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.97	12.27	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	18.1	12.4	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.15	17.45	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.14	17.44	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.99	17.29	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	22.15	16.45	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.52	16.82	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.23	16.53	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.1	16.4	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	21.1	15.4	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	21.45	15.75	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	21.4	15.7	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	21.18	15.48	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	20.1	14.4	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	18.16	12.46	23.98	PASS



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Band30	10MHz	256QAM	27710	1RB#24	18.29	12.59	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	18.07	12.37	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	18.13	12.43	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	24.4	18.7	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	24.45	18.75	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	24.35	18.65	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	24.08	18.38	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	24.00	18.3	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	24.04	18.34	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.92	18.22	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	24.10	18.4	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	24.34	18.64	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	24.12	18.42	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#12	24.06	18.36	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	24.43	18.73	23.98	PASS



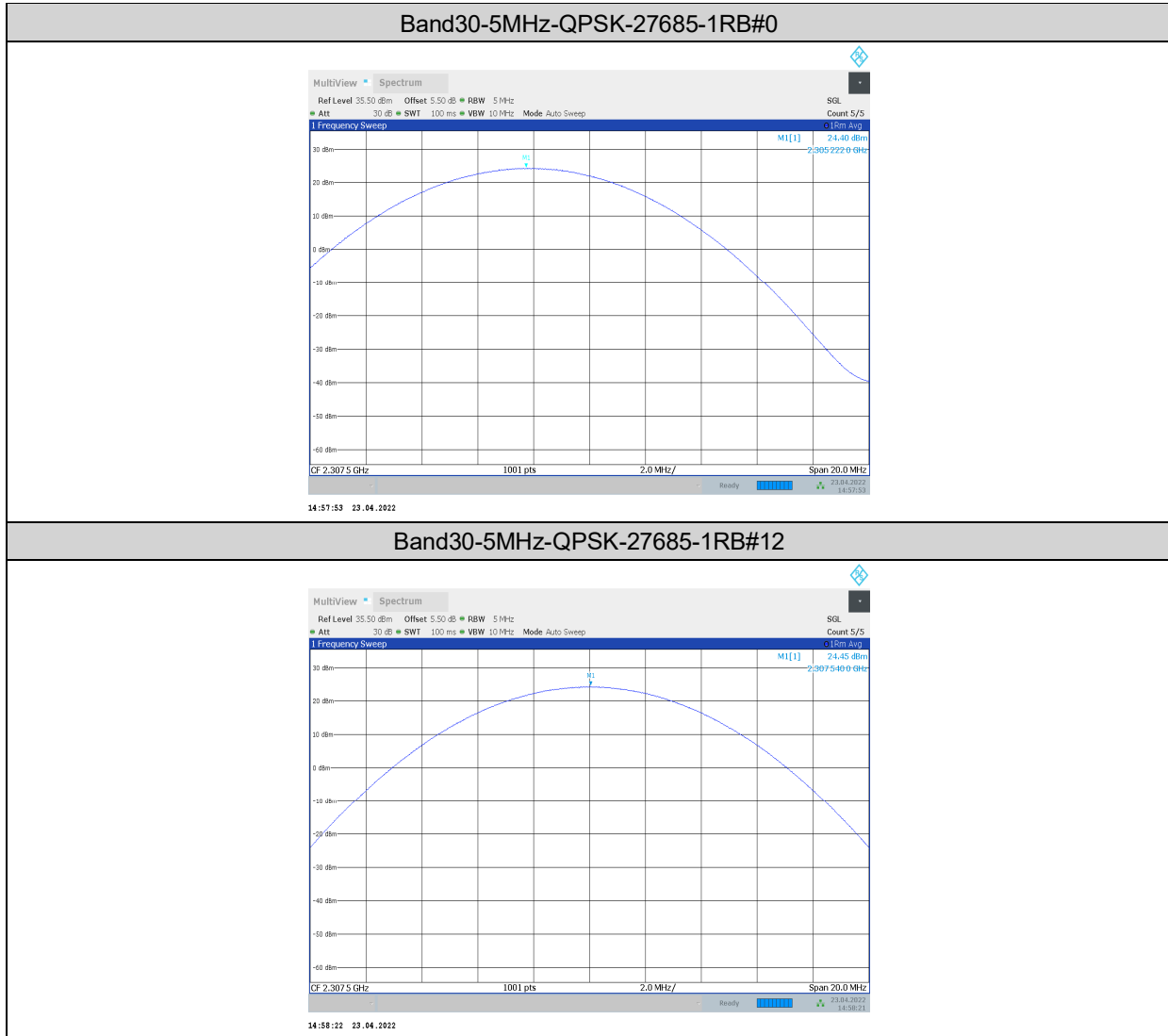
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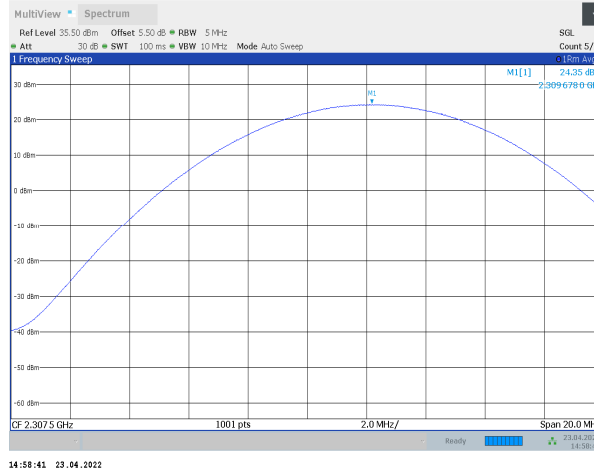
Test plots



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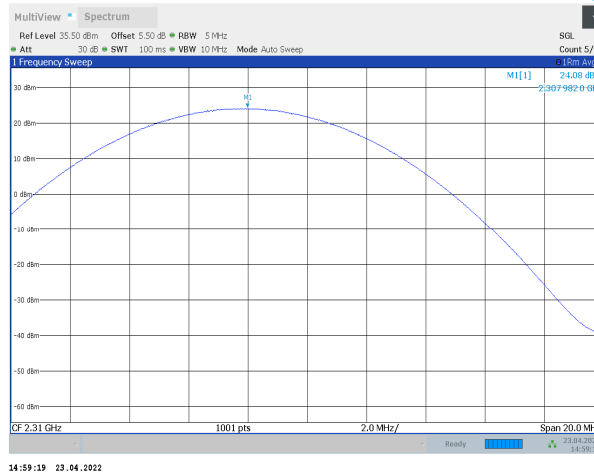
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Band30-5MHz-QPSK-27685-1RB#24



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



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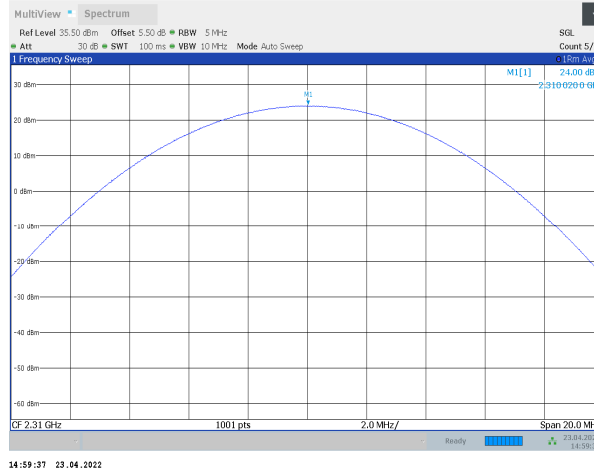
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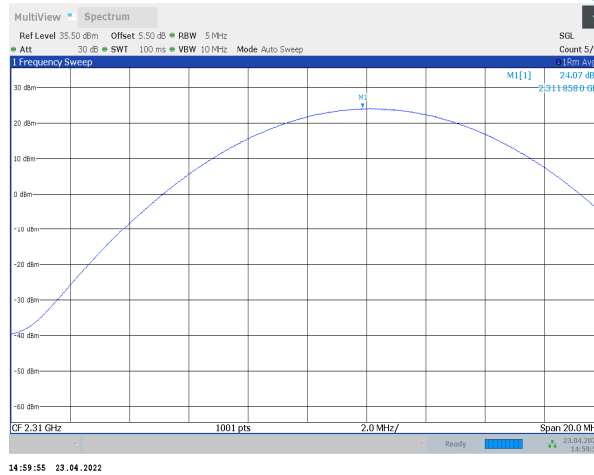
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Band30-5MHz-QPSK -27710-1RB#12



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

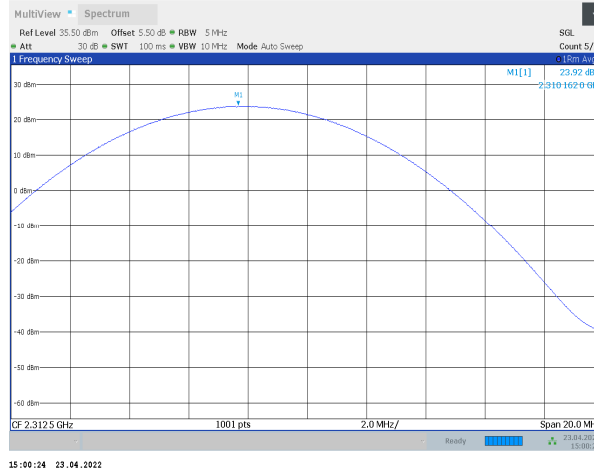


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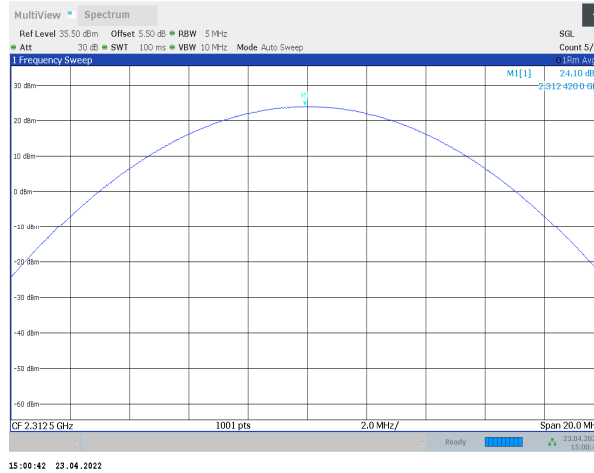
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Band30-5MHz-QPSK-27735-1RB#12



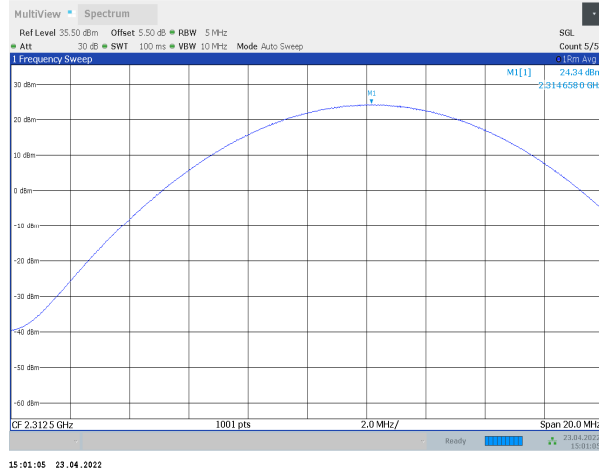
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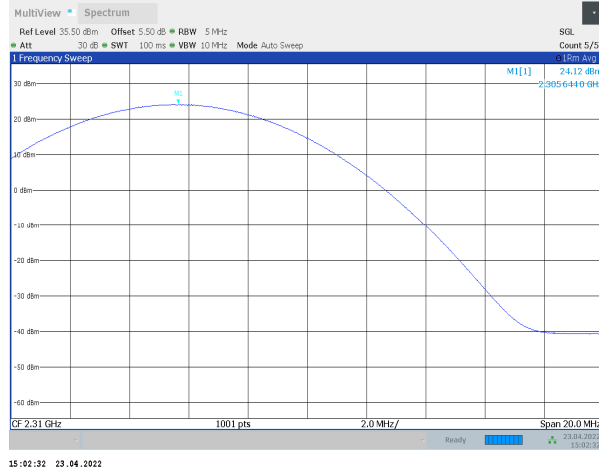
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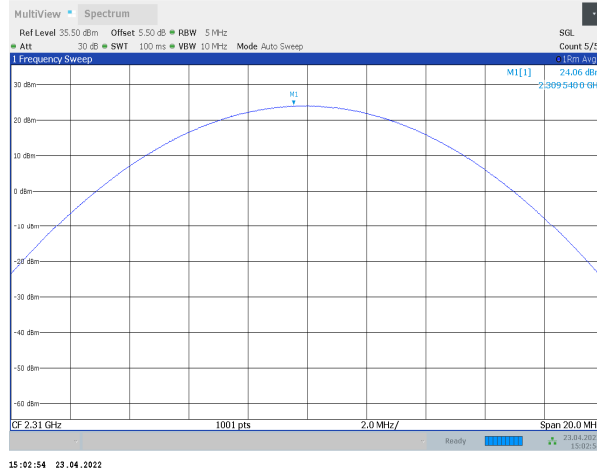
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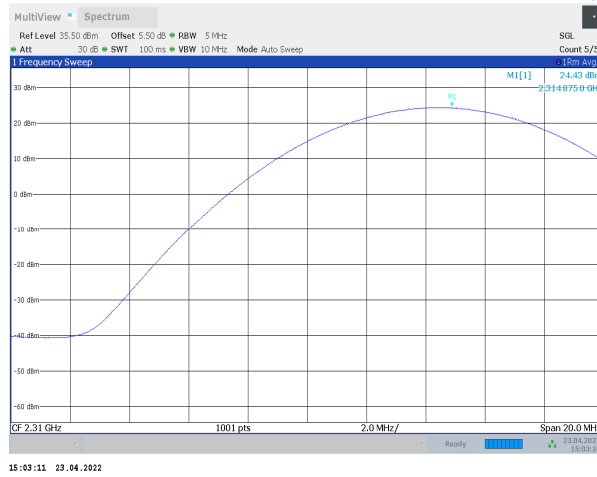
Band30-10MHz-QPSK-27710-1RB#0



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



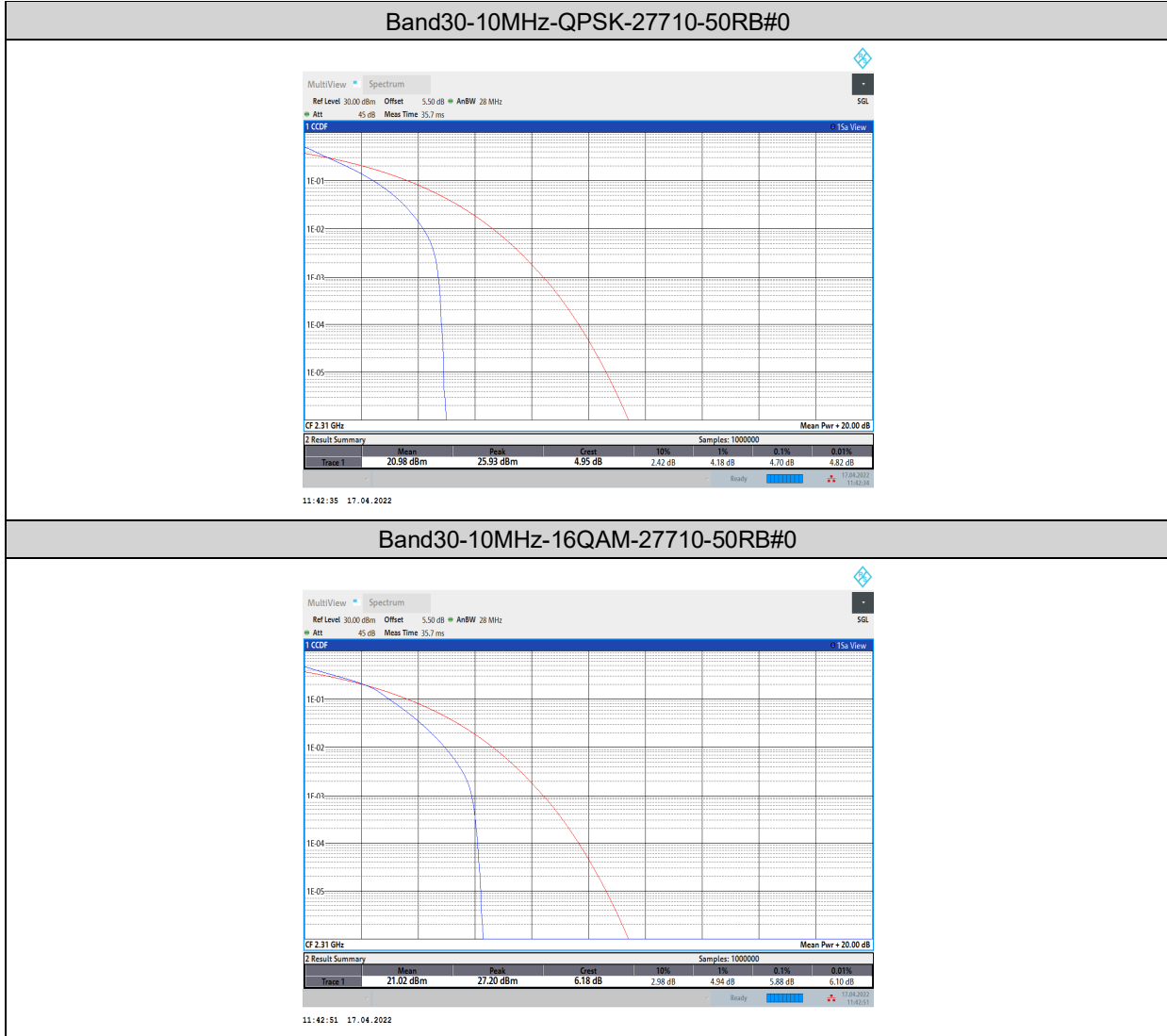
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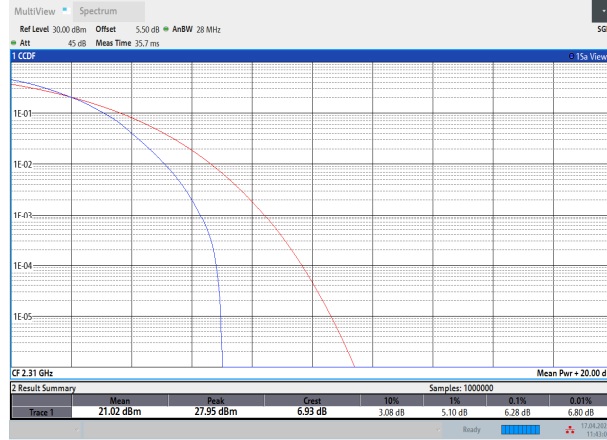
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Test Graphs

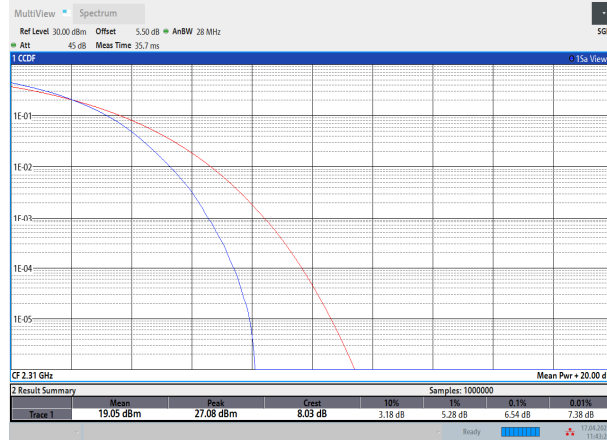


Band30-10MHz-64QAM-27710-50RB#0



11:43:08 17.04.2022

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



11:43:24 17.04.2022





Modulation Characteristics

Test Result

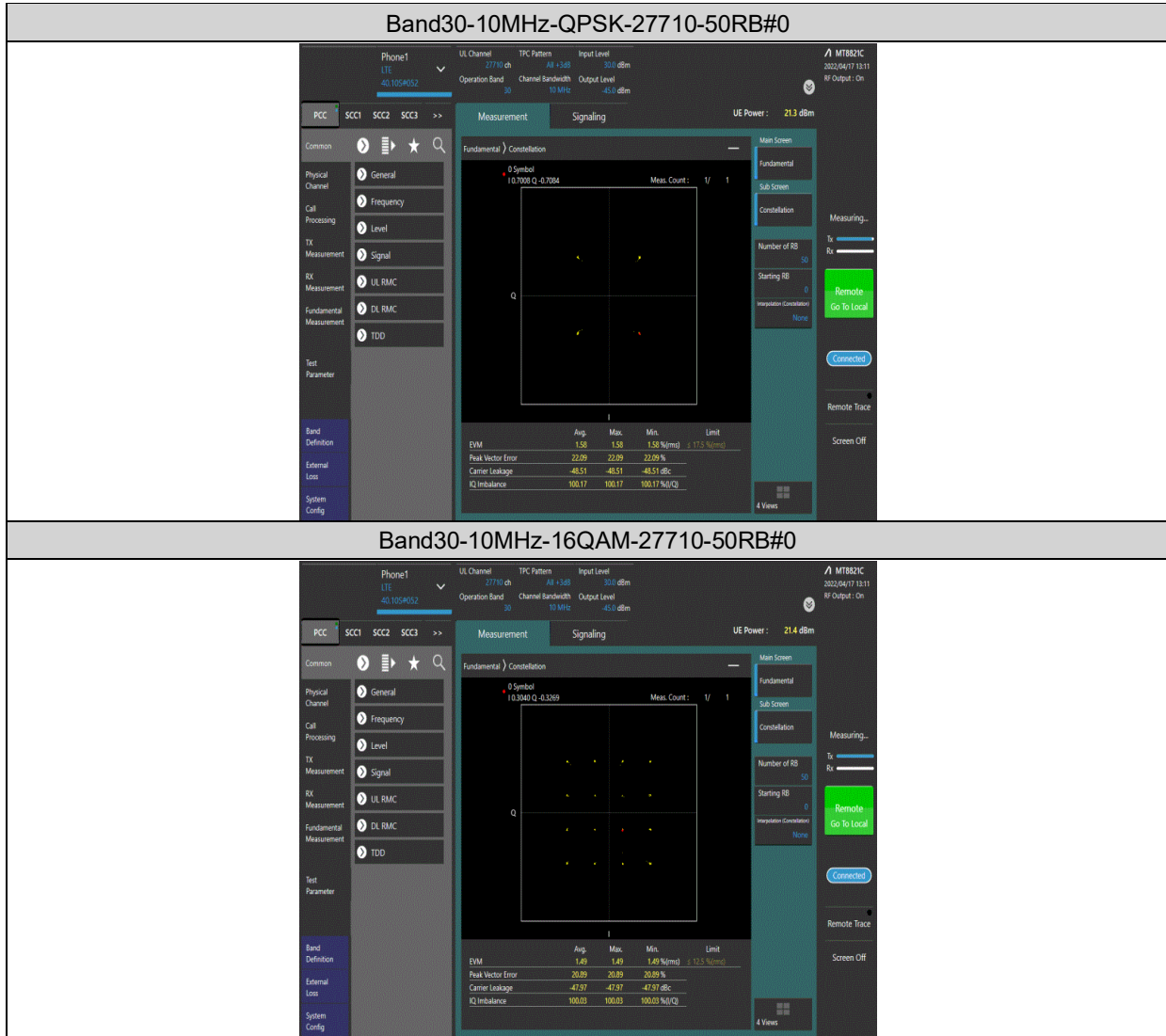
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band30	10MHz	QPSK	27710	50RB#0	PASS	PASS
Band30	10MHz	16QAM	27710	50RB#0	PASS	PASS
Band30	10MHz	64QAM	27710	50RB#0	PASS	PASS
Band30	10MHz	256QAM	27710	50RB#0	PASS	PASS



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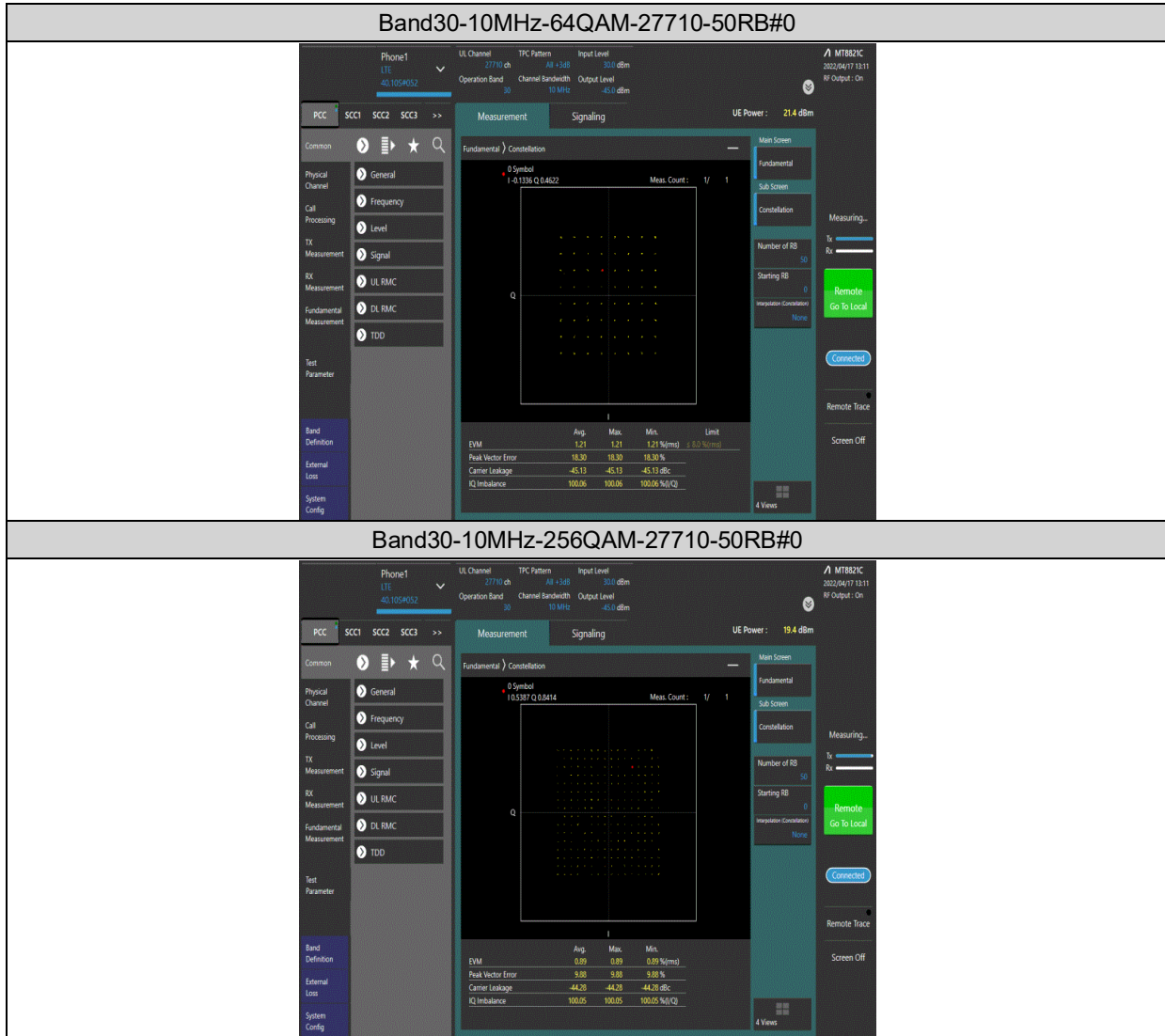


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26dB Bandwidth and Occupied Bandwidth

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



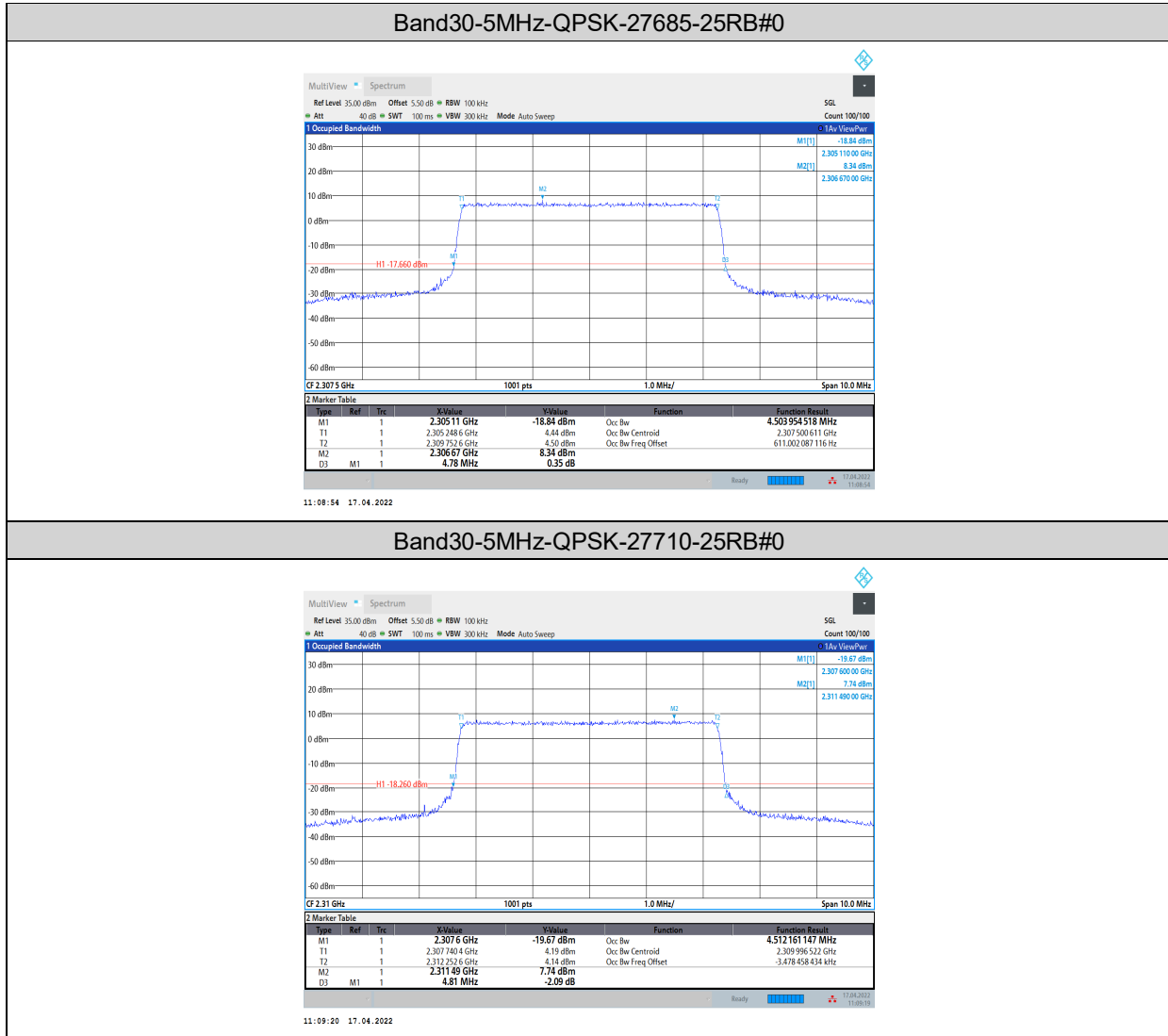
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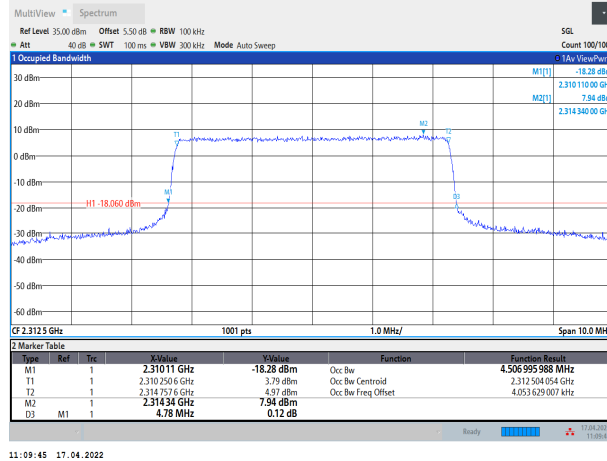


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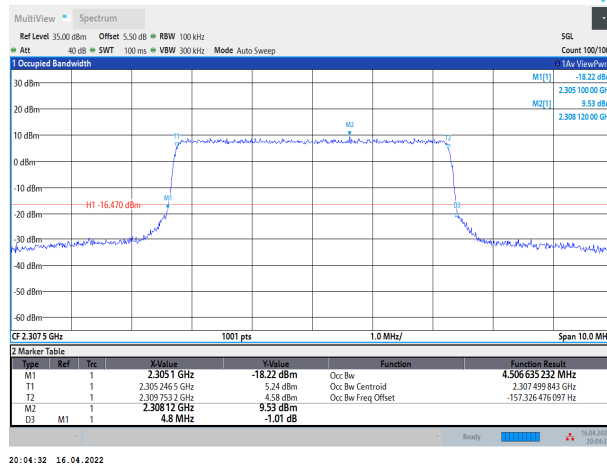
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Band30-5MHz-QPSK-27735-25RB#0



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



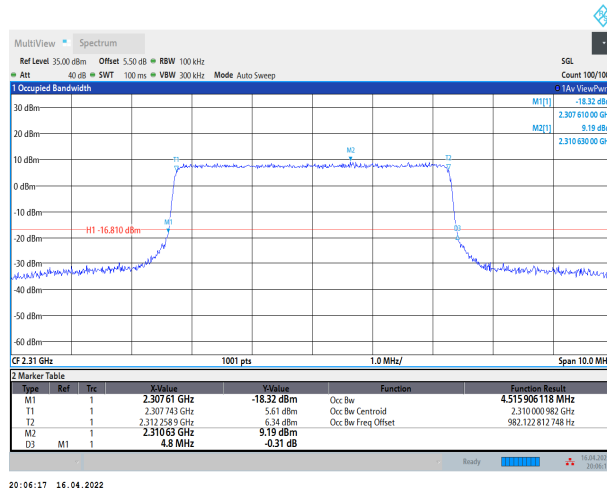
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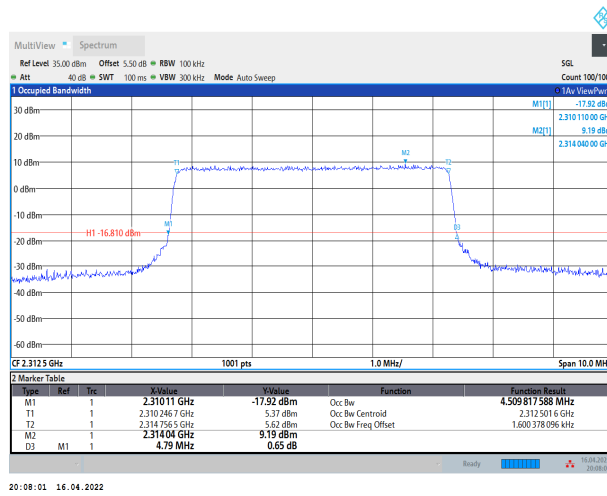
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Band30-5MHz-16QAM-27710-25RB#0



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

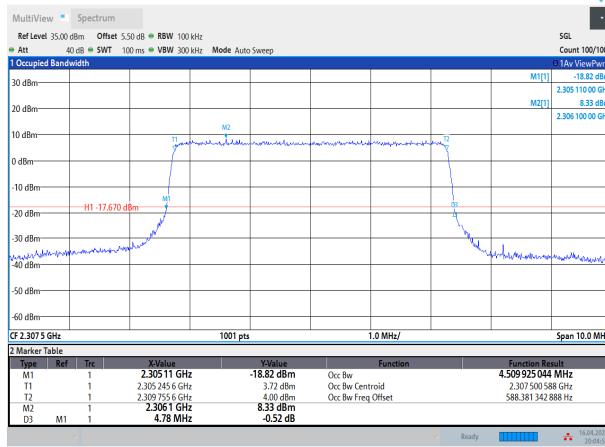


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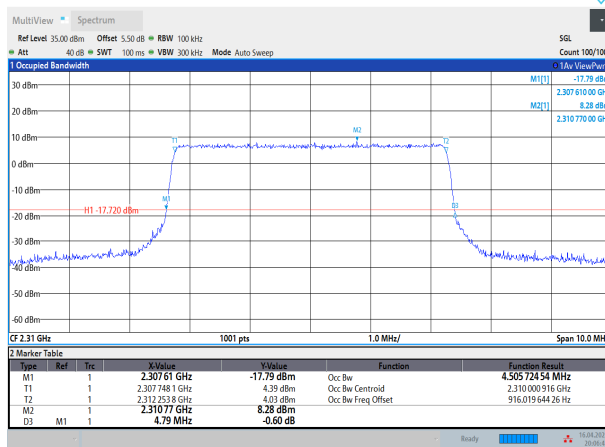
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Band30-5MHz-64QAM-27685-25RB#0



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



20:06:42 16.04.2022



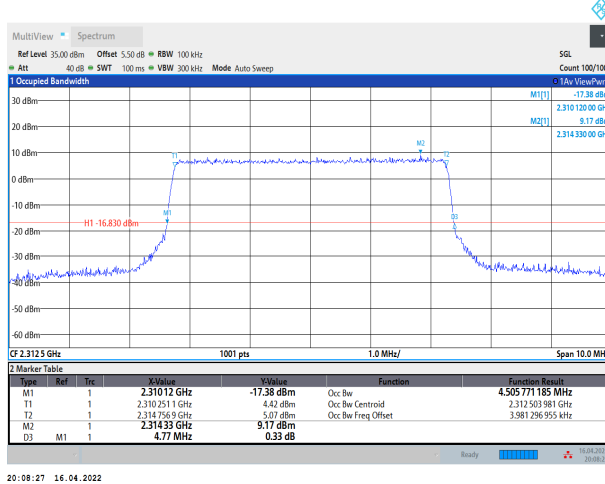
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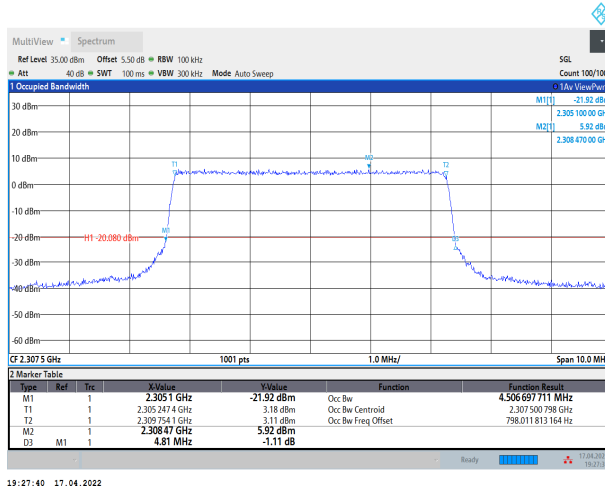
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Band30-5MHz-64QAM-27735-25RB#0



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



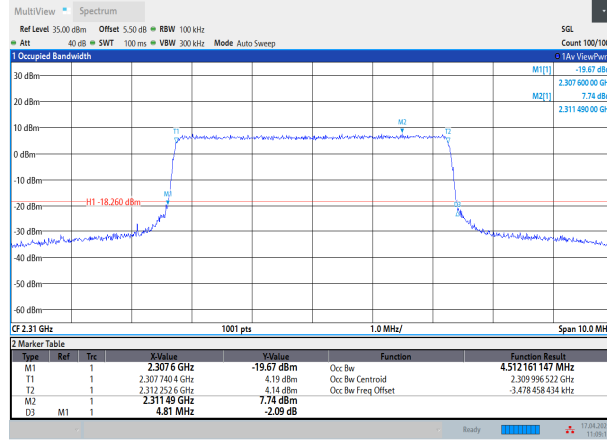
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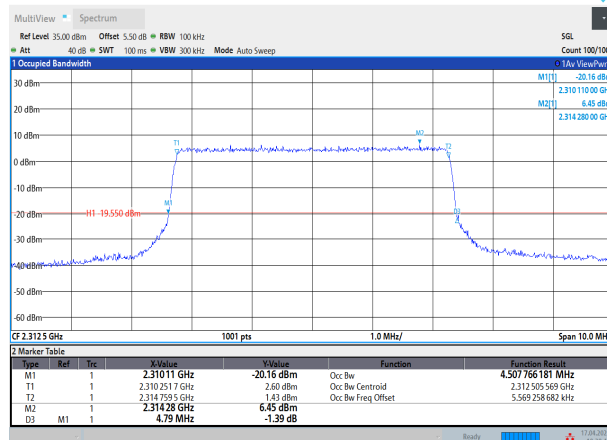
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11:09:20 17.04.2022

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



19:28:42 17.04.2022

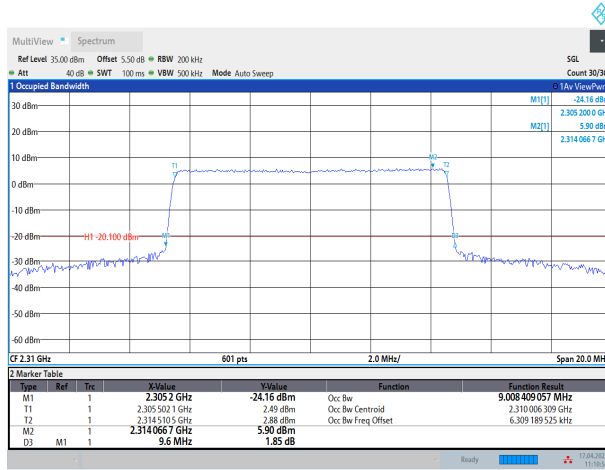


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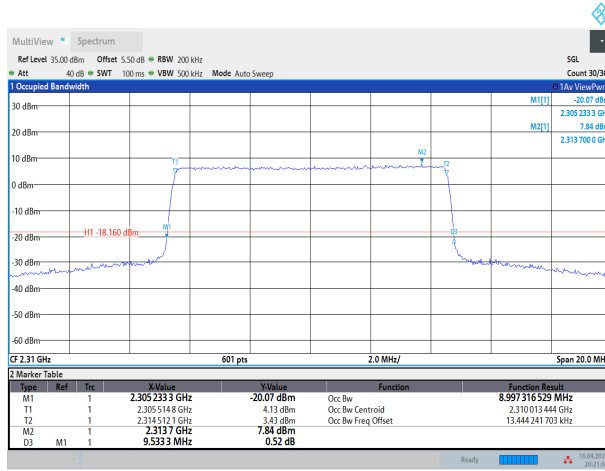
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Band30-10MHz-QPSK-27710-50RB#0



11:10:54 17.04.2022

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



20:21:10 16.04.2022



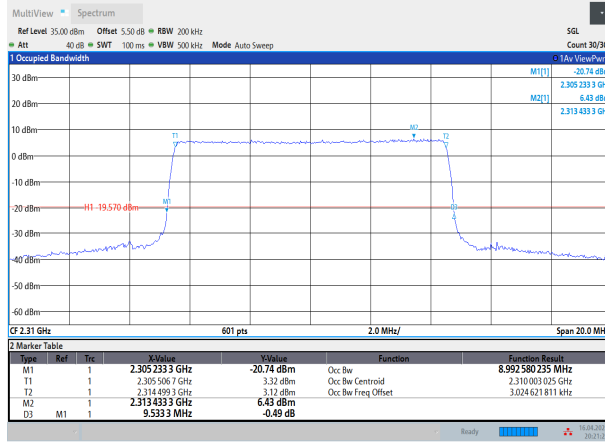
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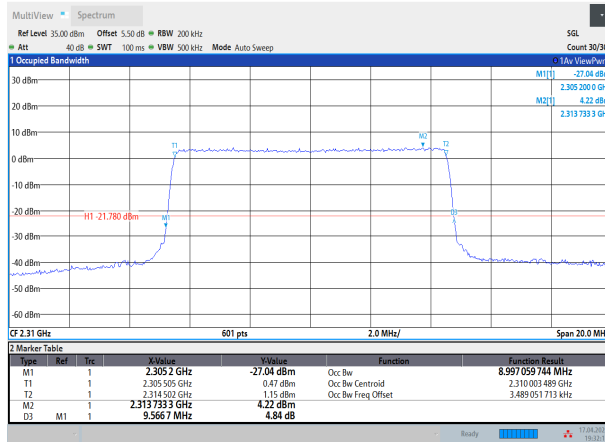
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19:32:16 17.04.2022



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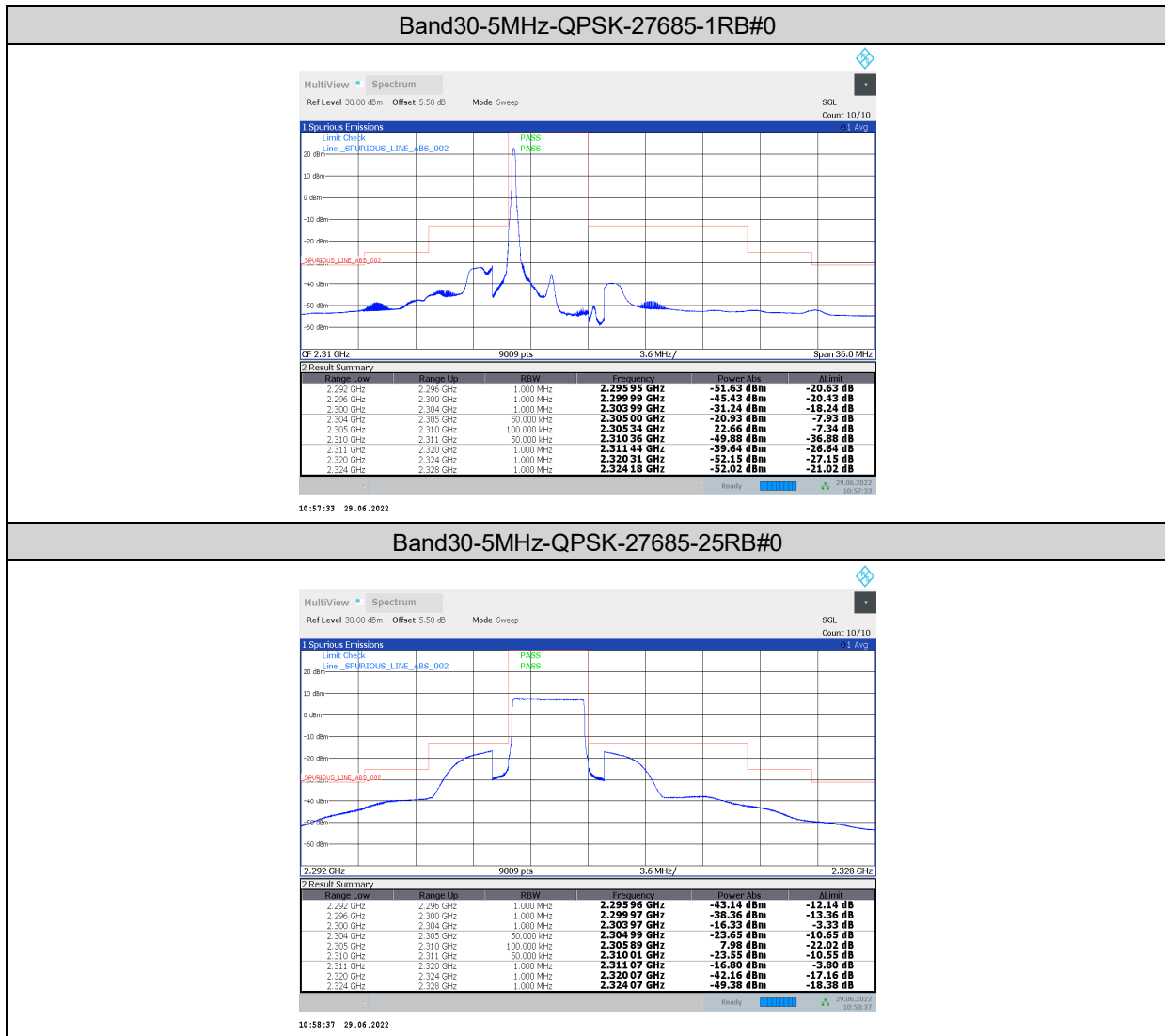
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Band Edge

Test Graphs

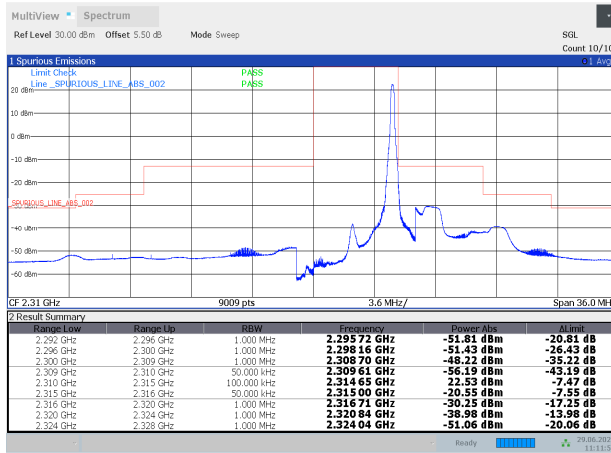


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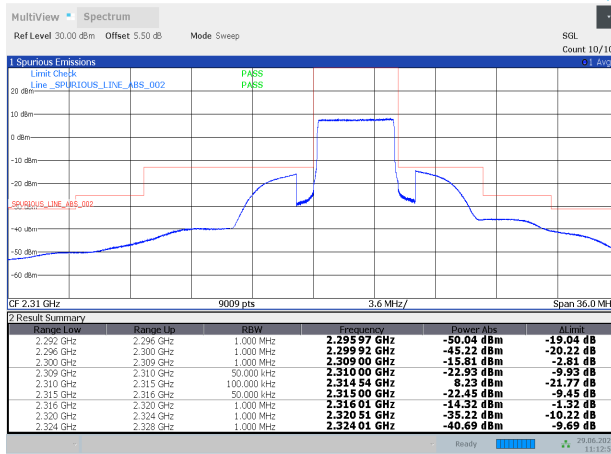
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Band30-5MHz-QPSK-27735-1RB#24



11:11:54 29.06.2022

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



11:12:54 29.06.2022

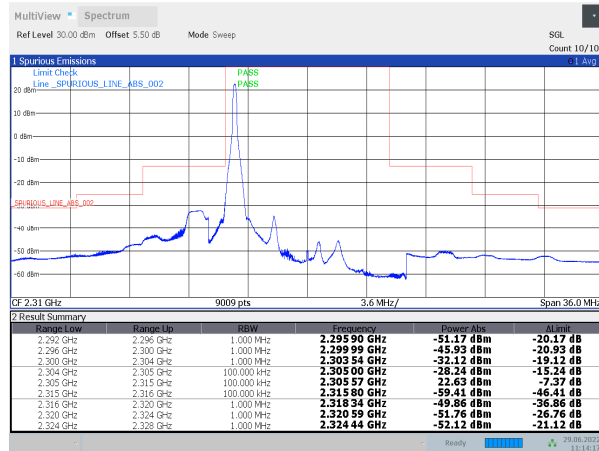


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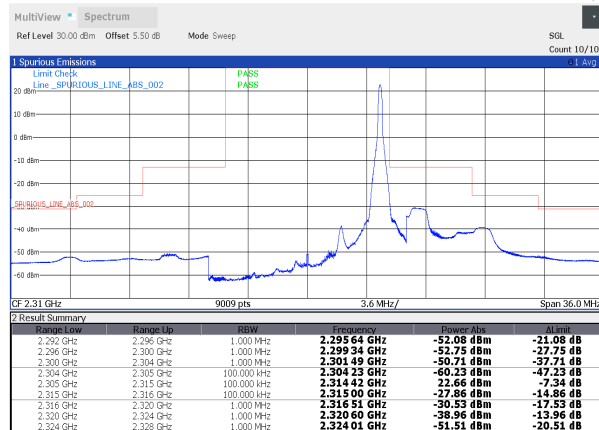
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Band30-10MHz-QPSK-27710-1RB#0



11:14:17 29.06.2022

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



11:15:30 29.06.2022

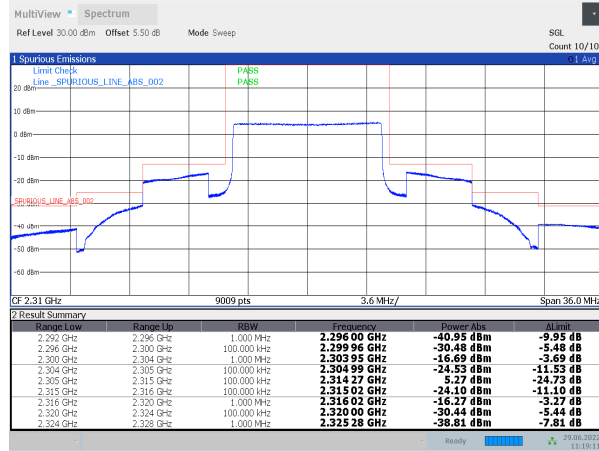


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Band30-10MHz-QPSK-27710-50RB#0



11:19:12 29.06.2022



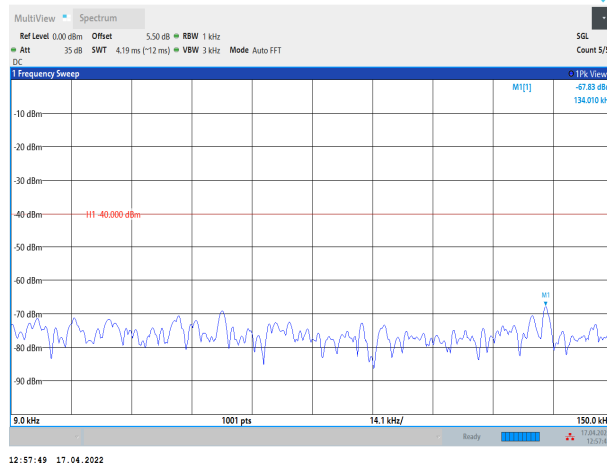
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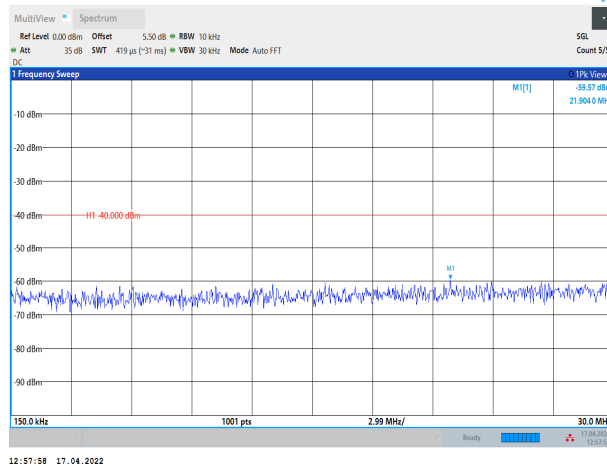
Conducted Spurious Emission

Test Graphs

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



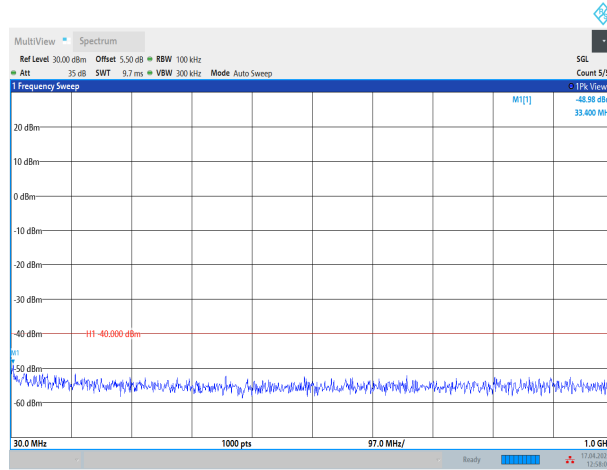
Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz



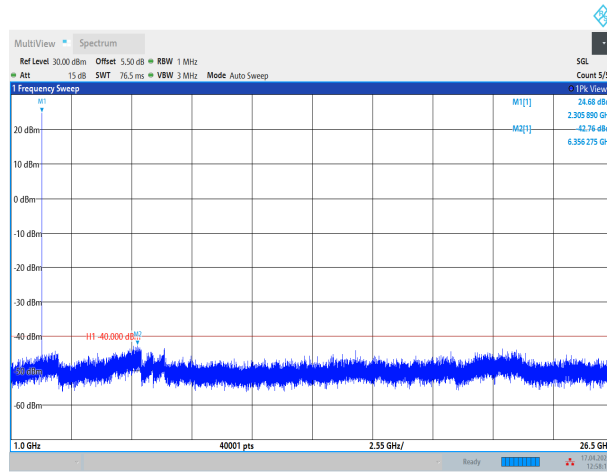
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	49.73	-108.05	-58.32	-40.00	18.32	251	15	Horizontal
2	6916.77	49.06	-101.68	-52.62	-40.00	12.62	142	1	Horizontal
3	9222.36	47.08	-95.08	-48.00	-40.00	8.00	263	15	Horizontal
4	11527.95	41.44	-91.44	-50.00	-40.00	10.00	241	224	Horizontal
5	13833.54	42.12	-90.03	-47.91	-40.00	7.91	175	357	Horizontal
6	16139.13	42.23	-90.60	-48.37	-40.00	8.37	264	200	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	53.59	-108.05	-54.46	-40.00	14.46	163	0	Vertical
2	6916.77	47.31	-101.68	-54.37	-40.00	14.37	252	1	Vertical
3	9222.36	47.22	-95.08	-47.86	-40.00	7.86	241	82	Vertical
4	11527.95	40.97	-91.44	-50.47	-40.00	10.47	175	163	Vertical
5	13833.54	42.57	-90.03	-47.46	-40.00	7.46	263	70	Vertical
6	16139.13	41.55	-90.60	-49.05	-40.00	9.05	241	151	Vertical



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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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	50.28	-108.05	-57.77	-40.00	17.77	263	118	Horizontal
2	6916.02	48.28	-101.68	-53.40	-40.00	13.40	241	5	Horizontal
3	9221.36	47.12	-95.08	-47.96	-40.00	7.96	176	315	Horizontal
4	11526.7	42.10	-91.44	-49.34	-40.00	9.34	263	96	Horizontal
5	13832.04	43.18	-90.05	-46.87	-40.00	6.87	251	2	Horizontal
6	16137.38	42.12	-90.62	-48.50	-40.00	8.50	178	27	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	52.19	-108.05	-55.86	-40.00	15.86	263	0	Vertical
2	6916.02	48.18	-101.68	-53.50	-40.00	13.50	251	4	Vertical
3	9221.36	47.37	-95.08	-47.71	-40.00	7.71	175	282	Vertical
4	11526.7	41.25	-91.44	-50.19	-40.00	10.19	262	338	Vertical
5	13832.04	42.69	-90.05	-47.36	-40.00	7.36	241	247	Vertical
6	16137.38	41.50	-90.62	-49.12	-40.00	9.12	178	282	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	50.33	-108.03	-57.70	-40.00	17.70	263	164	Horizontal
2	6923.52	47.38	-101.68	-54.30	-40.00	14.30	251	245	Horizontal
3	9231.36	46.76	-95.08	-48.32	-40.00	8.32	142	188	Horizontal
4	11539.2	41.99	-91.51	-49.52	-40.00	9.52	263	188	Horizontal
5	13847.04	42.70	-89.92	-47.22	-40.00	7.22	294	326	Horizontal
6	16154.88	43.13	-90.46	-47.33	-40.00	7.33	176	268	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	52.65	-108.03	-55.38	-40.00	15.38	263	350	Vertical
2	6923.52	48.54	-101.68	-53.14	-40.00	13.14	251	167	Vertical
3	9231.36	47.47	-95.08	-47.61	-40.00	7.61	174	0	Vertical
4	11539.2	41.95	-91.51	-49.56	-40.00	9.56	186	84	Vertical
5	13847.04	42.49	-89.92	-47.43	-40.00	7.43	264	1	Vertical
6	16154.88	40.87	-90.46	-49.59	-40.00	9.59	178	357	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	50.30	-108.00	-57.70	-40.00	17.70	263	188	Horizontal
2	6931.02	47.53	-101.68	-54.15	-40.00	14.15	251	50	Horizontal
3	9241.32	47.56	-95.08	-47.52	-40.00	7.52	176	110	Horizontal
4	11551.7	42.45	-91.59	-49.14	-40.00	9.14	263	142	Horizontal
5	13862.04	41.36	-89.78	-48.42	-40.00	8.42	241	327	Horizontal
6	16172.38	42.11	-90.28	-48.17	-40.00	8.17	178	176	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	50.11	-108.00	-57.89	-40.00	17.89	263	19	Vertical
2	6931.02	48.53	-101.68	-53.15	-40.00	13.15	251	190	Vertical
3	9241.32	47.21	-95.08	-47.87	-40.00	7.87	174	328	Vertical
4	11551.7	40.63	-91.59	-50.96	-40.00	10.96	186	247	Vertical
5	13862.04	41.92	-89.78	-47.86	-40.00	7.86	264	144	Vertical
6	16172.38	42.06	-90.28	-48.22	-40.00	8.22	155	88	Vertical



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Test Band = UL CA Band 2A-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	3702.18	50.63	-111.07	-60.44	-40.00	20.44	263	333	Horizontal
2	4610.68	50.21	-108.05	-57.84	-40.00	17.84	241	359	Horizontal
3	5553.27	49.54	-106.36	-56.82	-40.00	16.82	176	136	Horizontal
4	6916.02	48.26	-101.68	-53.42	-40.00	13.42	254	184	Horizontal
5	7404.36	48.19	-100.77	-52.58	-40.00	12.58	186	333	Horizontal
6	9221.36	48.08	-95.08	-47.00	-40.00	7.00	241	66	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	49.52	-111.07	-61.55	-40.00	21.55	263	360	Vertical
2	4610.68	50.81	-108.05	-57.24	-40.00	17.24	241	360	Vertical
3	5553.27	50.16	-106.36	-56.20	-40.00	16.20	176	22	Vertical
4	6916.02	48.49	-101.68	-53.19	-40.00	13.19	254	11	Vertical
5	7403.5714	53.22	-100.78	-47.56	-40.00	7.56	188	55	Vertical
6	9221.36	47.21	-95.08	-47.87	-40.00	7.87	265	218	Vertical



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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Test Band = UL CA Band 2A-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	3742.18	49.60	-110.86	-61.26	-40.00	21.26	263	3	Horizontal
2	4615.68	49.94	-108.03	-58.09	-40.00	18.09	251	90	Horizontal
3	5613.27	51.07	-106.14	-55.07	-40.00	15.07	175	90	Horizontal
4	6923.52	48.74	-101.68	-52.94	-40.00	12.94	263	333	Horizontal
5	7484.36	48.59	-100.43	-51.84	-40.00	11.84	241	321	Horizontal
6	9231.36	47.81	-95.08	-47.27	-40.00	7.27	178	102	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	50.56	-110.86	-60.30	-40.00	20.30	263	160	Vertical
2	4615.68	49.99	-108.03	-58.04	-40.00	18.04	241	112	Vertical
3	5613.27	50.24	-106.14	-55.90	-40.00	15.90	175	360	Vertical
4	6923.52	49.52	-101.68	-52.16	-40.00	12.16	265	3	Vertical
5	7484.36	54.34	-100.43	-46.09	-40.00	6.09	284	55	Vertical
6	9231.36	47.01	-95.08	-48.07	-40.00	8.07	178	288	Vertical



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Test Band = UL CA Band 2A-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	3782.18	50.20	-110.65	-60.45	-40.00	20.45	162	173	Horizontal
2	4620.68	49.44	-108.00	-58.56	-40.00	18.56	263	254	Horizontal
3	5673.27	50.29	-105.87	-55.58	-40.00	15.58	321	81	Horizontal
4	6931.02	47.88	-101.68	-53.80	-40.00	13.80	142	69	Horizontal
5	7564.36	49.23	-100.00	-50.77	-40.00	10.77	265	115	Horizontal
6	9241.32	47.11	-95.08	-47.97	-40.00	7.97	284	33	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	49.36	-110.65	-61.29	-40.00	21.29	263	163	Vertical
2	4620.68	49.09	-108.00	-58.91	-40.00	18.91	251	68	Vertical
3	5673.27	50.18	-105.87	-55.69	-40.00	15.69	142	360	Vertical
4	6931.02	48.52	-101.68	-53.16	-40.00	13.16	284	186	Vertical
5	7564.36	48.95	-100.00	-51.05	-40.00	11.05	196	356	Vertical
6	9241.32	48.31	-95.08	-46.77	-40.00	6.77	147	360	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 40 of 49

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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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

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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t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



Report No.: SEWM2304000122RG01

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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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 t (86-512) 62992980 sgs.china@sgs.com

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



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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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