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# Appendix B.20

## NR Band n38



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### Effective (Isotropic) Radiated Power Output Data for SA

#### Test Result

#### ANT0:

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N38	30	20	DFT-PI2BPSK	L	Inner_1RB_Left	24.12	24.52	33	PASS
N38	30	20	DFT-PI2BPSK	L	Inner_1RB_Right	24.26	24.66	33	PASS
N38	30	20	DFT-PI2BPSK	L	Outer_Full	23.77	24.17	33	PASS
N38	30	20	DFT-QPSK	L	Inner_1RB_Left	24.2	24.6	33	PASS
N38	30	20	DFT-QPSK	L	Inner_1RB_Right	24.3	24.7	33	PASS
N38	30	20	DFT-QPSK	L	Outer_Full	23.29	23.69	33	PASS
N38	30	20	DFT-16QAM	L	Inner_1RB_Left	22.9	23.3	33	PASS
N38	30	20	DFT-16QAM	L	Inner_1RB_Right	22.99	23.39	33	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	22.24	22.64	33	PASS
N38	30	20	DFT-64QAM	L	Inner_1RB_Left	20.65	21.05	33	PASS
N38	30	20	DFT-64QAM	L	Inner_1RB_Right	21.54	21.94	33	PASS
N38	30	20	DFT-64QAM	L	Outer_Full	21.79	22.19	33	PASS
N38	30	20	DFT-256QAM	L	Inner_1RB_Left	20.41	20.81	33	PASS
N38	30	20	DFT-256QAM	L	Inner_1RB_Right	19.79	20.19	33	PASS
N38	30	20	DFT-256QAM	L	Outer_Full	19.82	20.22	33	PASS
N38	30	20	DFT-PI2BPSK	M	Inner_1RB_Left	24.23	24.63	33	PASS
N38	30	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.18	24.58	33	PASS
N38	30	20	DFT-PI2BPSK	M	Outer_Full	23.84	24.24	33	PASS
N38	30	20	DFT-QPSK	M	Inner_1RB_Left	24.26	24.66	33	PASS
N38	30	20	DFT-QPSK	M	Inner_1RB_Right	24.28	24.68	33	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	23.33	23.73	33	PASS
N38	30	20	DFT-16QAM	M	Inner_1RB_Left	22.92	23.32	33	PASS
N38	30	20	DFT-16QAM	M	Inner_1RB_Right	22.9	23.3	33	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	22.32	22.72	33	PASS
N38	30	20	DFT-64QAM	M	Inner_1RB_Left	20.35	20.75	33	PASS
N38	30	20	DFT-64QAM	M	Inner_1RB_Right	21.46	21.86	33	PASS
N38	30	20	DFT-64QAM	M	Outer_Full	21.84	22.24	33	PASS



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N38	30	20	DFT-256QAM	M	Inner_1RB_Left	20.52	20.92	33	PASS
N38	30	20	DFT-256QAM	M	Inner_1RB_Right	19.8	20.2	33	PASS
N38	30	20	DFT-256QAM	M	Outer_Full	19.9	20.3	33	PASS
N38	30	20	DFT-PI2BPSK	H	Inner_1RB_Left	24.18	24.58	33	PASS
N38	30	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.24	24.64	33	PASS
N38	30	20	DFT-PI2BPSK	H	Outer_Full	23.8	24.2	33	PASS
N38	30	20	DFT-QPSK	H	Inner_1RB_Left	24.21	24.61	33	PASS
N38	30	20	DFT-QPSK	H	Inner_1RB_Right	24.29	24.69	33	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	22.85	23.25	33	PASS
N38	30	20	DFT-16QAM	H	Inner_1RB_Left	22.92	23.32	33	PASS
N38	30	20	DFT-16QAM	H	Inner_1RB_Right	23.05	23.45	33	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	22.27	22.67	33	PASS
N38	30	20	DFT-64QAM	H	Inner_1RB_Left	21.44	21.84	33	PASS
N38	30	20	DFT-64QAM	H	Inner_1RB_Right	21.54	21.94	33	PASS
N38	30	20	DFT-64QAM	H	Outer_Full	21.81	22.21	33	PASS
N38	30	20	DFT-256QAM	H	Inner_1RB_Left	19.74	20.14	33	PASS
N38	30	20	DFT-256QAM	H	Inner_1RB_Right	19.85	20.25	33	PASS
N38	30	20	DFT-256QAM	H	Outer_Full	19.86	20.26	33	PASS
N38	30	30	DFT-PI2BPSK	L	Inner_1RB_Left	23.63	24.03	33	PASS
N38	30	30	DFT-PI2BPSK	L	Inner_1RB_Right	24.3	24.7	33	PASS
N38	30	30	DFT-PI2BPSK	L	Outer_Full	23.78	24.18	33	PASS
N38	30	30	DFT-QPSK	L	Inner_1RB_Left	24.16	24.56	33	PASS
N38	30	30	DFT-QPSK	L	Inner_1RB_Right	24.28	24.68	33	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	23.27	23.67	33	PASS
N38	30	30	DFT-16QAM	L	Inner_1RB_Left	22.92	23.32	33	PASS
N38	30	30	DFT-16QAM	L	Inner_1RB_Right	22.97	23.37	33	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	22.26	22.66	33	PASS
N38	30	30	DFT-64QAM	L	Inner_1RB_Left	21.69	22.09	33	PASS
N38	30	30	DFT-64QAM	L	Inner_1RB_Right	21.78	22.18	33	PASS
N38	30	30	DFT-64QAM	L	Outer_Full	21.72	22.12	33	PASS
N38	30	30	DFT-256QAM	L	Inner_1RB_Left	19.73	20.13	33	PASS
N38	30	30	DFT-256QAM	L	Inner_1RB_Right	19.81	20.21	33	PASS
N38	30	30	DFT-256QAM	L	Outer_Full	19.78	20.18	33	PASS
N38	30	30	DFT-PI2BPSK	M	Inner_1RB_Left	23.93	24.33	33	PASS
N38	30	30	DFT-PI2BPSK	M	Inner_1RB_Right	24.05	24.45	33	PASS



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N38	30	30	DFT-PI2BPSK	M	Outer_Full	23.78	24.18	33	PASS
N38	30	30	DFT-QPSK	M	Inner_1RB_Left	23.98	24.38	33	PASS
N38	30	30	DFT-QPSK	M	Inner_1RB_Right	24.1	24.5	33	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	23.28	23.68	33	PASS
N38	30	30	DFT-16QAM	M	Inner_1RB_Left	22.75	23.15	33	PASS
N38	30	30	DFT-16QAM	M	Inner_1RB_Right	22.73	23.13	33	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	22.31	22.71	33	PASS
N38	30	30	DFT-64QAM	M	Inner_1RB_Left	21.26	21.66	33	PASS
N38	30	30	DFT-64QAM	M	Inner_1RB_Right	21.36	21.76	33	PASS
N38	30	30	DFT-64QAM	M	Outer_Full	21.76	22.16	33	PASS
N38	30	30	DFT-256QAM	M	Inner_1RB_Left	19.55	19.95	33	PASS
N38	30	30	DFT-256QAM	M	Inner_1RB_Right	19.63	20.03	33	PASS
N38	30	30	DFT-256QAM	M	Outer_Full	19.8	20.2	33	PASS
N38	30	30	DFT-PI2BPSK	H	Inner_1RB_Left	24.15	24.55	33	PASS
N38	30	30	DFT-PI2BPSK	H	Inner_1RB_Right	24.16	24.56	33	PASS
N38	30	30	DFT-PI2BPSK	H	Outer_Full	23.82	24.22	33	PASS
N38	30	30	DFT-QPSK	H	Inner_1RB_Left	24.17	24.57	33	PASS
N38	30	30	DFT-QPSK	H	Inner_1RB_Right	24.15	24.55	33	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	23.32	23.72	33	PASS
N38	30	30	DFT-16QAM	H	Inner_1RB_Left	22.97	23.37	33	PASS
N38	30	30	DFT-16QAM	H	Inner_1RB_Right	22.95	23.35	33	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	22.33	22.73	33	PASS
N38	30	30	DFT-64QAM	H	Inner_1RB_Left	21.53	21.93	33	PASS
N38	30	30	DFT-64QAM	H	Inner_1RB_Right	21.48	21.88	33	PASS
N38	30	30	DFT-64QAM	H	Outer_Full	21.81	22.21	33	PASS
N38	30	30	DFT-256QAM	H	Inner_1RB_Left	19.78	20.18	33	PASS
N38	30	30	DFT-256QAM	H	Inner_1RB_Right	19.72	20.12	33	PASS
N38	30	30	DFT-256QAM	H	Outer_Full	19.85	20.25	33	PASS
N38	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.25	23.65	33	PASS
N38	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	23.79	24.19	33	PASS
N38	30	40	DFT-PI2BPSK	L	Outer_Full	23.69	24.09	33	PASS
N38	30	40	DFT-QPSK	L	Inner_1RB_Left	23.83	24.23	33	PASS
N38	30	40	DFT-QPSK	L	Inner_1RB_Right	23.83	24.23	33	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	23.19	23.59	33	PASS
N38	30	40	DFT-16QAM	L	Inner_1RB_Left	22.52	22.92	33	PASS



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N38	30	40	DFT-16QAM	L	Inner_1RB_Right	22.56	22.96	33	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	22.2	22.6	33	PASS
N38	30	40	DFT-64QAM	L	Inner_1RB_Left	21.13	21.53	33	PASS
N38	30	40	DFT-64QAM	L	Inner_1RB_Right	21.12	21.52	33	PASS
N38	30	40	DFT-64QAM	L	Outer_Full	21.67	22.07	33	PASS
N38	30	40	DFT-256QAM	L	Inner_1RB_Left	19.39	19.79	33	PASS
N38	30	40	DFT-256QAM	L	Inner_1RB_Right	19.42	19.82	33	PASS
N38	30	40	DFT-256QAM	L	Outer_Full	19.69	20.09	33	PASS
N38	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	23.68	24.08	33	PASS
N38	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	23.85	24.25	33	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	23.71	24.11	33	PASS
N38	30	40	DFT-QPSK	M	Inner_1RB_Left	23.71	24.11	33	PASS
N38	30	40	DFT-QPSK	M	Inner_1RB_Right	23.85	24.25	33	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	23.19	23.59	33	PASS
N38	30	40	DFT-16QAM	M	Inner_1RB_Left	22.43	22.83	33	PASS
N38	30	40	DFT-16QAM	M	Inner_1RB_Right	22.56	22.96	33	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	22.26	22.66	33	PASS
N38	30	40	DFT-64QAM	M	Inner_1RB_Left	21.05	21.45	33	PASS
N38	30	40	DFT-64QAM	M	Inner_1RB_Right	21.12	21.52	33	PASS
N38	30	40	DFT-64QAM	M	Outer_Full	21.7	22.1	33	PASS
N38	30	40	DFT-256QAM	M	Inner_1RB_Left	19.38	19.78	33	PASS
N38	30	40	DFT-256QAM	M	Inner_1RB_Right	19.42	19.82	33	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	19.69	20.09	33	PASS
N38	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	23.81	24.21	33	PASS
N38	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	23.95	24.35	33	PASS
N38	30	40	DFT-PI2BPSK	H	Outer_Full	23.76	24.16	33	PASS
N38	30	40	DFT-QPSK	H	Inner_1RB_Left	23.8	24.2	33	PASS
N38	30	40	DFT-QPSK	H	Inner_1RB_Right	23.99	24.39	33	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	23.27	23.67	33	PASS
N38	30	40	DFT-16QAM	H	Inner_1RB_Left	22.62	23.02	33	PASS
N38	30	40	DFT-16QAM	H	Inner_1RB_Right	22.69	23.09	33	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	22.3	22.7	33	PASS
N38	30	40	DFT-64QAM	H	Inner_1RB_Left	21.15	21.55	33	PASS
N38	30	40	DFT-64QAM	H	Inner_1RB_Right	21.29	21.69	33	PASS
N38	30	40	DFT-64QAM	H	Outer_Full	21.78	22.18	33	PASS



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N38	30	40	DFT-256QAM	H	Inner_1RB_Left	19.4	19.8	33	PASS
N38	30	40	DFT-256QAM	H	Inner_1RB_Right	19.62	20.02	33	PASS
N38	30	40	DFT-256QAM	H	Outer_Full	19.72	20.72	33	PASS



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### Peak-to-Average Ratio for SA

#### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N38	30	40	DFT-256QAM	L	Outer_Full	100%	0.00	9.73	≤13	PASS
N38	30	40	CP-256QAM	L	Outer_Full	100%	0.00	9.56	≤13	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	100%	0.00	9.39	≤13	PASS
N38	30	40	CP-256QAM	M	Outer_Full	100%	0.00	9.51	≤13	PASS
N38	30	40	DFT-256QAM	H	Outer_Full	100%	0.00	9.98	≤13	PASS
N38	30	40	CP-256QAM	H	Outer_Full	100%	0.00	9.46	≤13	PASS



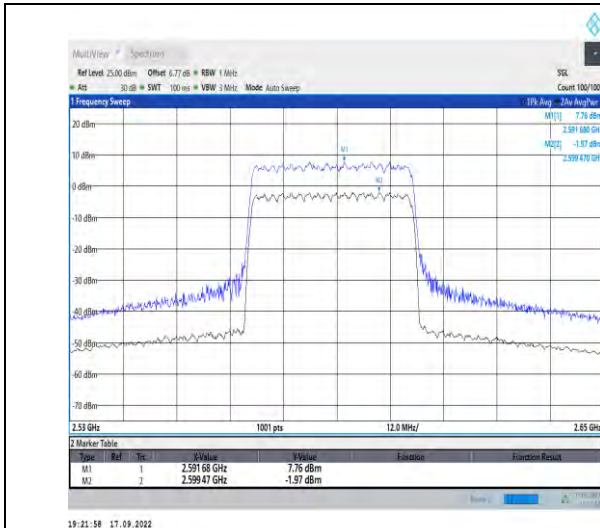
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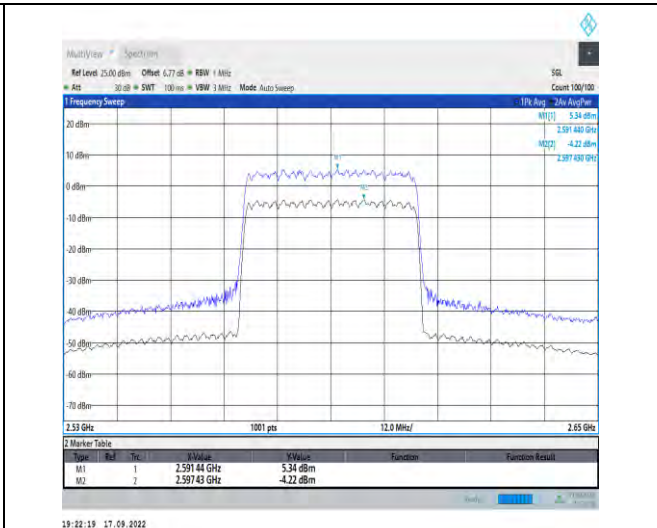
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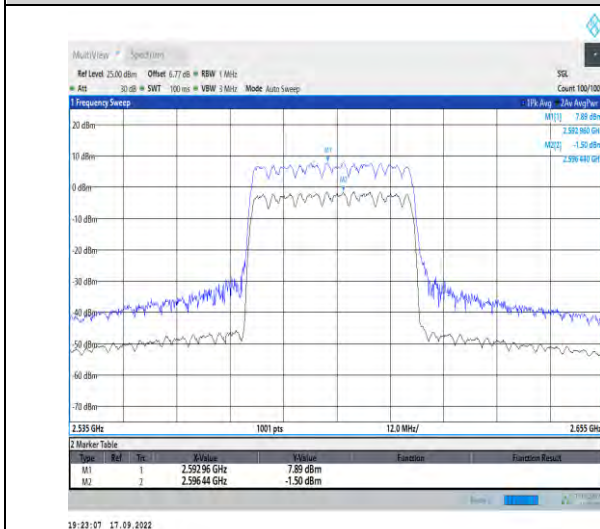
Test Graphs



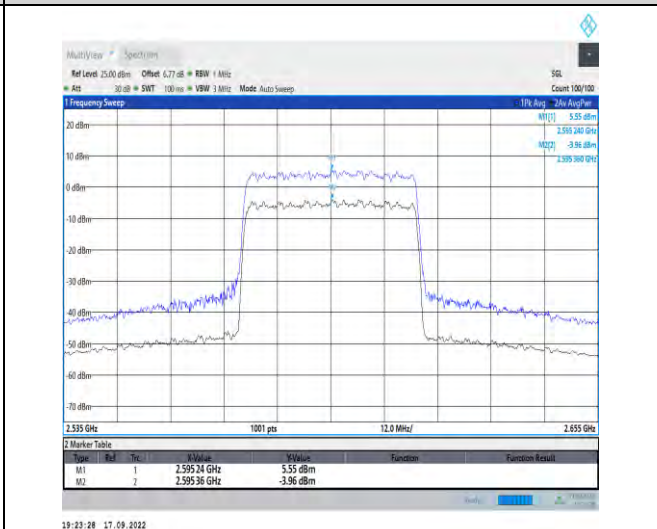
1-N38--30-40-L-1-DFT-256QAM-Outer\_Full-100@0-Ant1-9.73-100%-0.00-9.73-PASS-≤13



1-N38--30-40-L-2-CP-256QAM-Outer\_Full-106@0-Ant1-9.56-100%-0.00-9.56-PASS-≤13



1-N38--30-40-M-1-DFT-256QAM-Outer\_Full-100@0-Ant1-9.39-100%-0.00-9.39-PASS-≤13

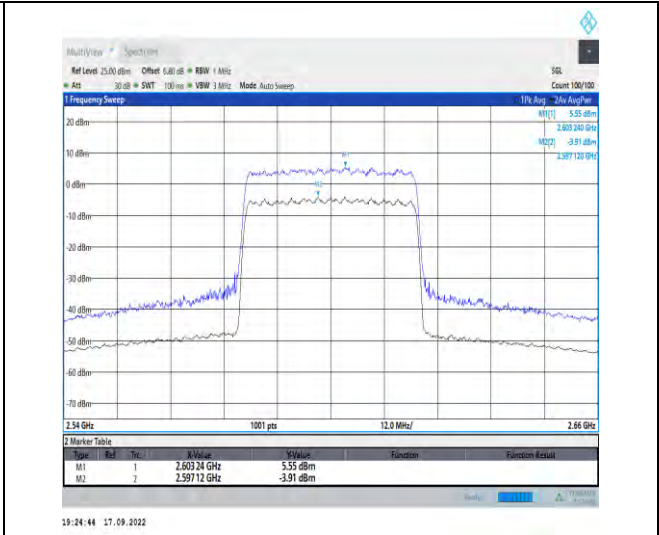


1-N38--30-40-M-2-CP-256QAM-Outer\_Full-106@0-Ant1-9.51-100%-0.00-9.51-PASS-≤13



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1-N38--30-40-H-1-DFT-256QAM-Outer\_Full-100@0-Ant1-9.98-100%-0.00-9.98-PASS- $\leq 13$

1-N38--30-40-H-2-CP-256QAM-Outer\_Full-106@0-Ant1-9.46-100%-0.00-9.46-PASS- $\leq 13$



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## Modulation characteristics for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N38	30	40	DFT-QPSK	M	Outer_Full	see graph	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	see graph	PASS
N38	30	40	DFT-64QAM	M	Outer_Full	see graph	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	see graph	PASS
N38	30	40	CP-QPSK	M	Outer_Full	see graph	PASS
N38	30	40	CP-16QAM	M	Outer_Full	see graph	PASS
N38	30	40	CP-64QAM	M	Outer_Full	see graph	PASS
N38	30	40	CP-256QAM	M	Outer_Full	see graph	PASS



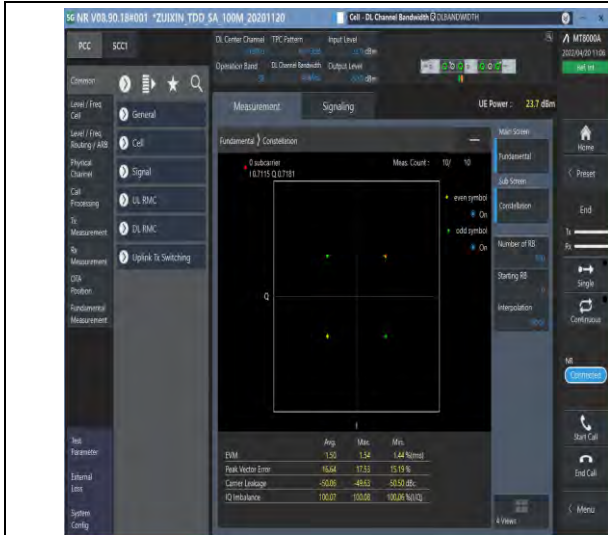
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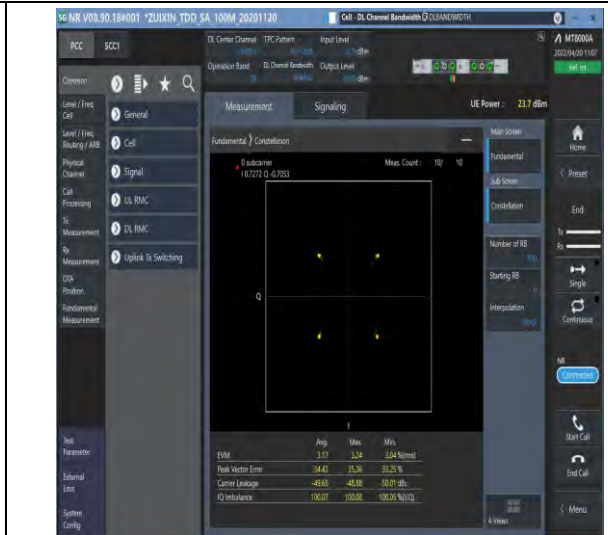
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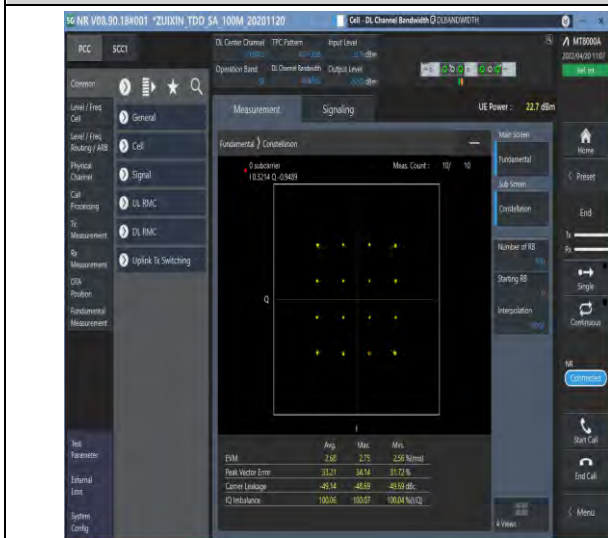
Test Graphs



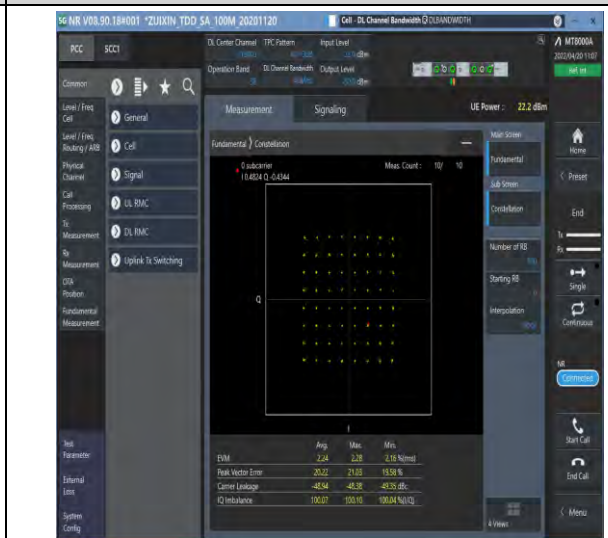
1-N38--30-40-M-1-DFT-PI2BPSK-Outer\_Full-100@0-A  
Ant1-see graph-PASS



1-N38--30-40-M-2-DFT-QPSK-Outer\_Full-100@0-A  
nt1-see graph-PASS



1-N38--30-40-M-3-DFT-16QAM-Outer\_Full-100@0-A  
nt1-see graph-PASS



1-N38--30-40-M-4-DFT-64QAM-Outer\_Full-100@0-A  
Ant1-see graph-PASS

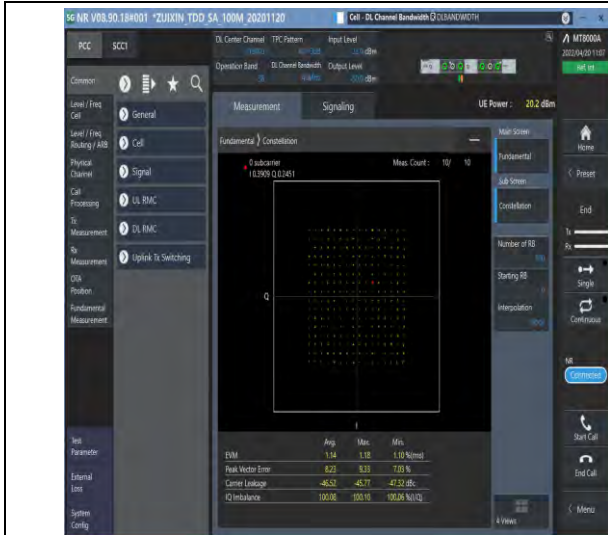


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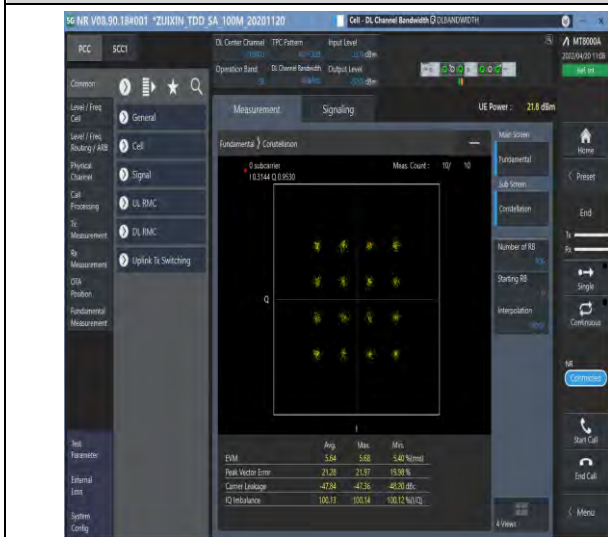
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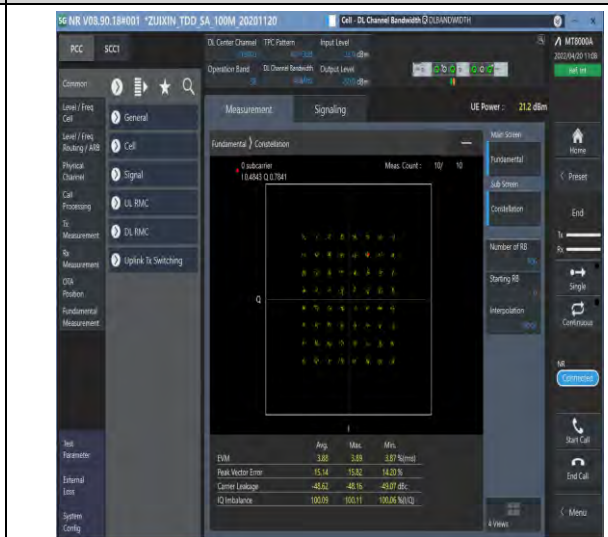
1-N38--30-40-M-5-DFT-256QAM-Outer\_Full-100@0-Ant1-see graph-PASS



1-N38--30-40-M-6-CP-QPSK-Outer\_Full-106@0-Ant1-see graph-PASS



1-N38--30-40-M-7-CP-16QAM-Outer\_Full-106@0-Ant1-see graph-PASS



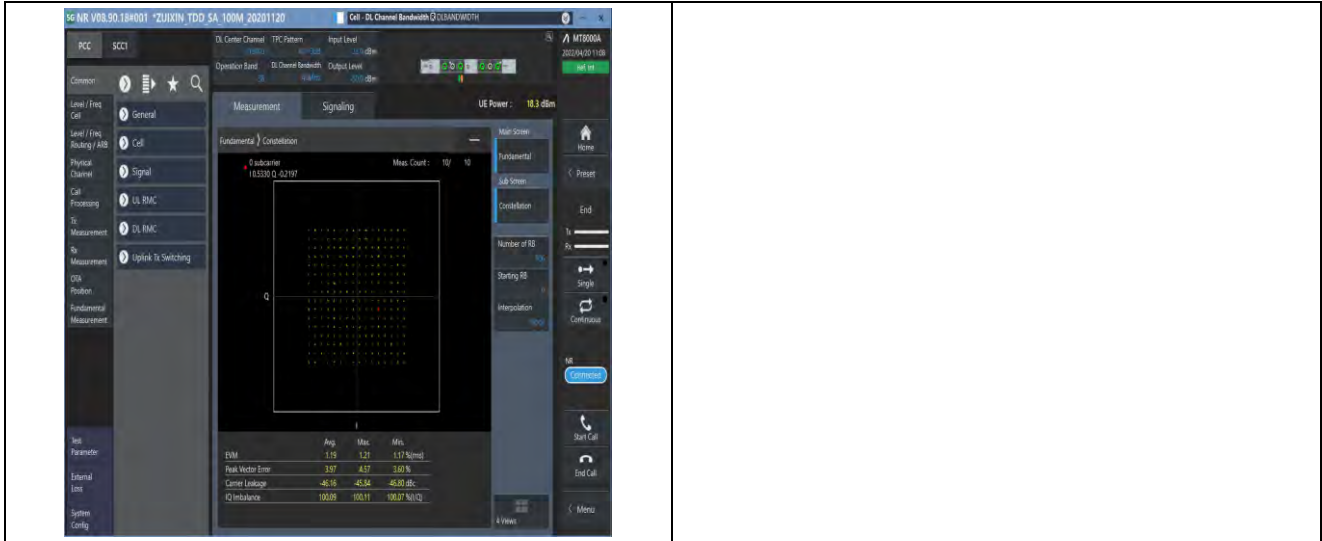
1-N38--30-40-M-8-CP-64QAM-Outer\_Full-106@0-Ant1-see graph-PASS



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1-N38--30-40-M-9-CP-256QAM-Outer\_Full-106@0-A  
nt1-see graph-PASS



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### 26dB Bandwidth and Occupied Bandwidth for SA

#### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N38	30	20	DFT-QPSK	L	Outer_Full	17.718	18.840	PASS
N38	30	20	DFT-PI2BPSK	L	Outer_Full	17.859	18.920	PASS
N38	30	20	DFT-16QAM	L	Outer_Full	17.852	18.800	PASS
N38	30	20	DFT-64QAM	L	Outer_Full	17.826	18.840	PASS
N38	30	20	DFT-256QAM	L	Outer_Full	17.883	18.920	PASS
N38	30	20	CP-QPSK	L	Outer_Full	18.137	18.840	PASS
N38	30	20	CP-16QAM	L	Outer_Full	18.24	19.160	PASS
N38	30	20	CP-64QAM	L	Outer_Full	18.2	19.280	PASS
N38	30	20	CP-256QAM	L	Outer_Full	18.19	19.240	PASS
N38	30	20	DFT-QPSK	M	Outer_Full	17.774	18.720	PASS
N38	30	20	DFT-PI2BPSK	M	Outer_Full	17.816	18.760	PASS
N38	30	20	DFT-16QAM	M	Outer_Full	17.805	18.760	PASS
N38	30	20	DFT-64QAM	M	Outer_Full	17.854	18.760	PASS
N38	30	20	DFT-256QAM	M	Outer_Full	17.781	18.880	PASS
N38	30	20	CP-QPSK	M	Outer_Full	17.816	18.760	PASS
N38	30	20	CP-16QAM	M	Outer_Full	18.236	19.440	PASS
N38	30	20	CP-64QAM	M	Outer_Full	18.18	19.280	PASS
N38	30	20	CP-256QAM	M	Outer_Full	18.185	19.120	PASS
N38	30	20	DFT-QPSK	H	Outer_Full	17.8	18.800	PASS
N38	30	20	DFT-PI2BPSK	H	Outer_Full	17.72	18.720	PASS
N38	30	20	DFT-16QAM	H	Outer_Full	17.758	18.800	PASS
N38	30	20	DFT-64QAM	H	Outer_Full	17.759	18.600	PASS
N38	30	20	DFT-256QAM	H	Outer_Full	17.882	18.640	PASS
N38	30	20	CP-QPSK	H	Outer_Full	18.248	19.160	PASS
N38	30	20	CP-16QAM	H	Outer_Full	18.198	19.000	PASS
N38	30	20	CP-64QAM	H	Outer_Full	18.246	19.480	PASS
N38	30	20	CP-256QAM	H	Outer_Full	18.173	19.160	PASS
N38	30	30	DFT-QPSK	L	Outer_Full	26.611	28.020	PASS



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N38	30	30	DFT-PI2BPSK	L	Outer_Full	26.817	28.500	PASS
N38	30	30	DFT-16QAM	L	Outer_Full	26.632	27.900	PASS
N38	30	30	DFT-64QAM	L	Outer_Full	26.715	27.960	PASS
N38	30	30	DFT-256QAM	L	Outer_Full	26.677	28.140	PASS
N38	30	30	CP-QPSK	L	Outer_Full	27.815	29.040	PASS
N38	30	30	CP-16QAM	L	Outer_Full	27.887	29.280	PASS
N38	30	30	CP-64QAM	L	Outer_Full	27.951	28.800	PASS
N38	30	30	CP-256QAM	L	Outer_Full	27.771	29.580	PASS
N38	30	30	DFT-QPSK	M	Outer_Full	26.642	28.020	PASS
N38	30	30	DFT-PI2BPSK	M	Outer_Full	26.657	27.960	PASS
N38	30	30	DFT-16QAM	M	Outer_Full	26.796	28.500	PASS
N38	30	30	DFT-64QAM	M	Outer_Full	26.818	28.200	PASS
N38	30	30	DFT-256QAM	M	Outer_Full	26.779	28.200	PASS
N38	30	30	CP-QPSK	M	Outer_Full	27.757	28.920	PASS
N38	30	30	CP-16QAM	M	Outer_Full	27.83	29.340	PASS
N38	30	30	CP-64QAM	M	Outer_Full	27.765	29.100	PASS
N38	30	30	CP-256QAM	M	Outer_Full	27.796	29.160	PASS
N38	30	30	DFT-QPSK	H	Outer_Full	26.775	28.080	PASS
N38	30	30	DFT-PI2BPSK	H	Outer_Full	26.673	28.080	PASS
N38	30	30	DFT-16QAM	H	Outer_Full	26.695	28.680	PASS
N38	30	30	DFT-64QAM	H	Outer_Full	26.769	28.200	PASS
N38	30	30	DFT-256QAM	H	Outer_Full	26.771	28.200	PASS
N38	30	30	CP-QPSK	H	Outer_Full	27.648	28.740	PASS
N38	30	30	CP-16QAM	H	Outer_Full	27.918	29.220	PASS
N38	30	30	CP-64QAM	H	Outer_Full	27.804	29.160	PASS
N38	30	30	CP-256QAM	H	Outer_Full	27.7	29.040	PASS
N38	30	40	DFT-QPSK	L	Outer_Full	35.703	37.760	PASS
N38	30	40	DFT-PI2BPSK	L	Outer_Full	35.757	37.360	PASS
N38	30	40	DFT-16QAM	L	Outer_Full	35.685	37.440	PASS
N38	30	40	DFT-64QAM	L	Outer_Full	35.56	37.360	PASS
N38	30	40	DFT-256QAM	L	Outer_Full	35.727	37.680	PASS
N38	30	40	CP-QPSK	L	Outer_Full	37.653	39.840	PASS
N38	30	40	CP-16QAM	L	Outer_Full	37.76	39.520	PASS
N38	30	40	CP-64QAM	L	Outer_Full	37.848	39.680	PASS
N38	30	40	CP-256QAM	L	Outer_Full	37.868	39.680	PASS



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N38	30	40	DFT-QPSK	M	Outer_Full	35.743	37.280	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	35.718	37.600	PASS
N38	30	40	DFT-16QAM	M	Outer_Full	35.72	37.360	PASS
N38	30	40	DFT-64QAM	M	Outer_Full	35.679	37.760	PASS
N38	30	40	DFT-256QAM	M	Outer_Full	35.807	37.440	PASS
N38	30	40	CP-QPSK	M	Outer_Full	37.725	39.520	PASS
N38	30	40	CP-16QAM	M	Outer_Full	37.8	39.760	PASS
N38	30	40	CP-64QAM	M	Outer_Full	37.843	39.440	PASS
N38	30	40	CP-256QAM	M	Outer_Full	37.787	39.520	PASS
N38	30	40	DFT-QPSK	H	Outer_Full	35.776	37.440	PASS
N38	30	40	DFT-PI2BPSK	H	Outer_Full	35.69	37.600	PASS
N38	30	40	DFT-16QAM	H	Outer_Full	35.649	37.600	PASS
N38	30	40	DFT-64QAM	H	Outer_Full	35.686	37.280	PASS
N38	30	40	DFT-256QAM	H	Outer_Full	35.702	37.840	PASS
N38	30	40	CP-QPSK	H	Outer_Full	37.785	39.440	PASS
N38	30	40	CP-16QAM	H	Outer_Full	37.747	39.360	PASS
N38	30	40	CP-64QAM	H	Outer_Full	37.681	39.440	PASS
N38	30	40	CP-256QAM	H	Outer_Full	37.769	39.600	PASS



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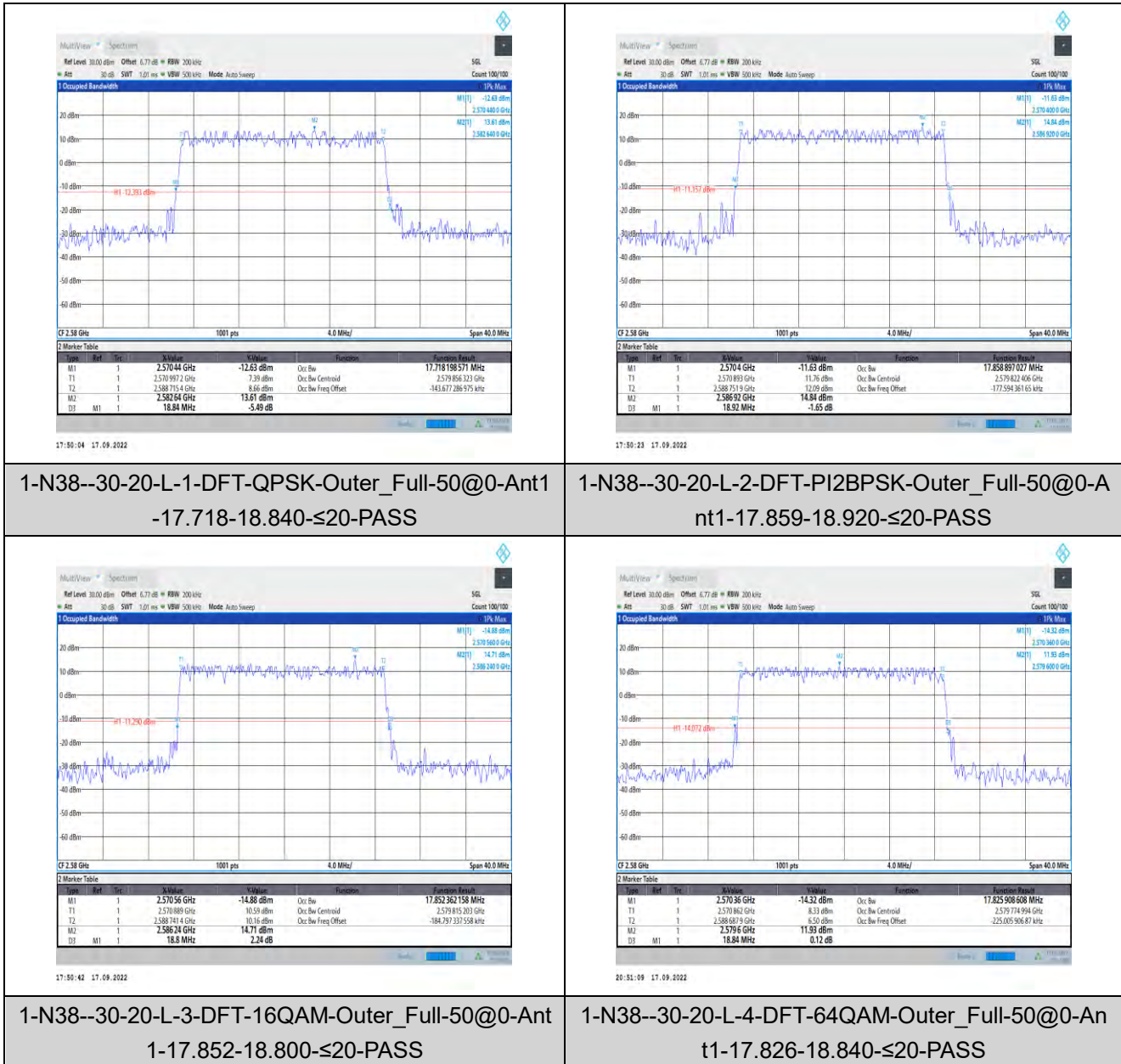
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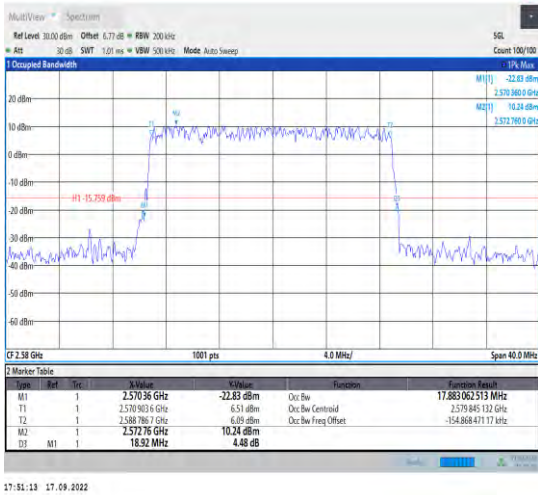
Test Graphs



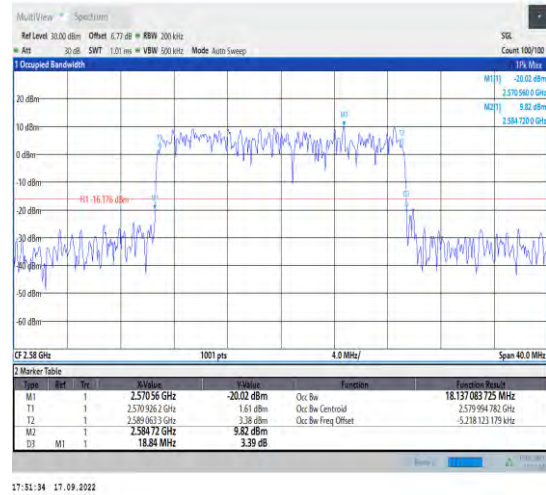
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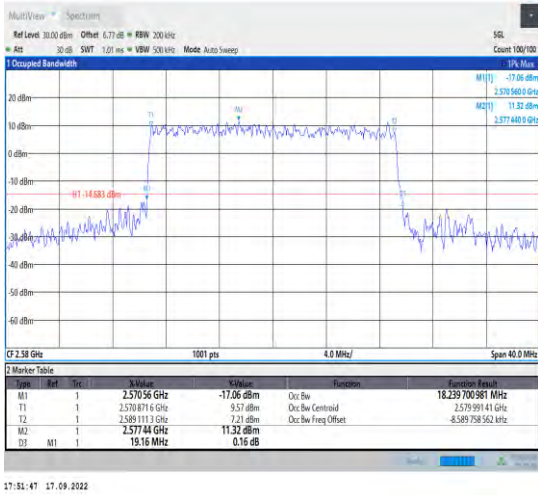
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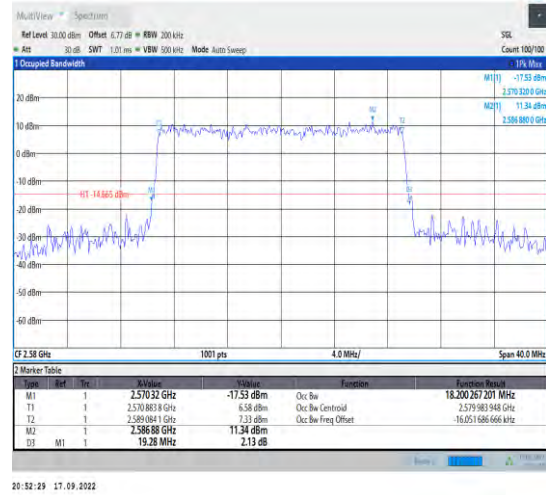
1-N38--30-20-L-5-DFT-256QAM-Outer\_Full-50@0-A  
nt1-17.883-18.920-≤20-PASS



1-N38--30-20-L-6-CP-QPSK-Outer\_Full-51@0-Ant1-  
18.137-18.840-≤20-PASS



1-N38--30-20-L-7-CP-16QAM-Outer\_Full-51@0-Ant1  
-18.24-19.160-≤20-PASS



1-N38--30-20-L-8-CP-64QAM-Outer\_Full-51@0-Ant  
1-18.2-19.280-≤20-PASS

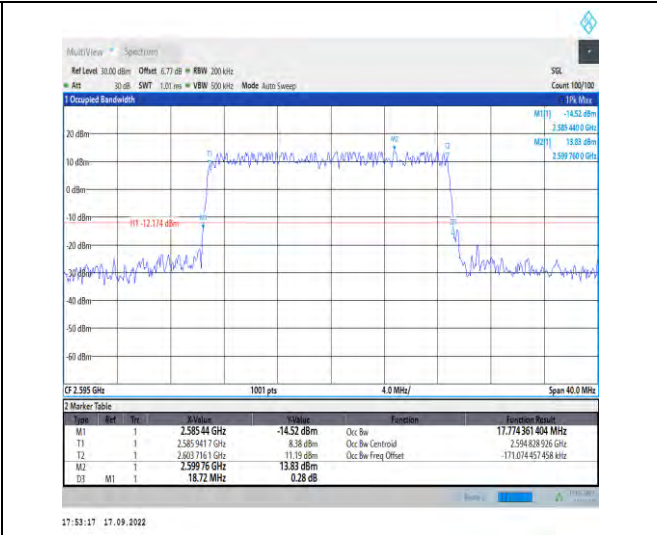


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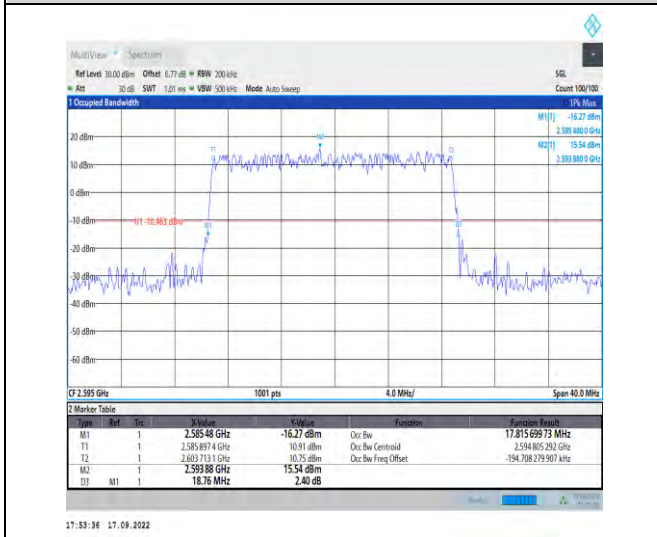
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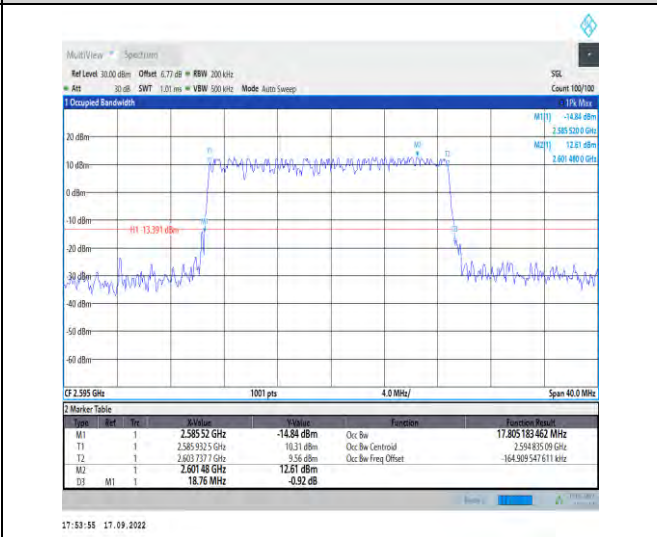
1-N38--30-20-L-9-CP-256QAM-Outer\_Full-51@0-Ant  
1-18.19-19.240-<20-PASS



1-N38--30-20-M-1-DFT-QPSK-Outer\_Full-50@0-Ant  
1-17.774-18.720-<20-PASS



1-N38--30-20-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-17.816-18.760-<20-PASS



1-N38--30-20-M-3-DFT-16QAM-Outer\_Full-50@0-Ant1-17.805-18.760-<20-PASS

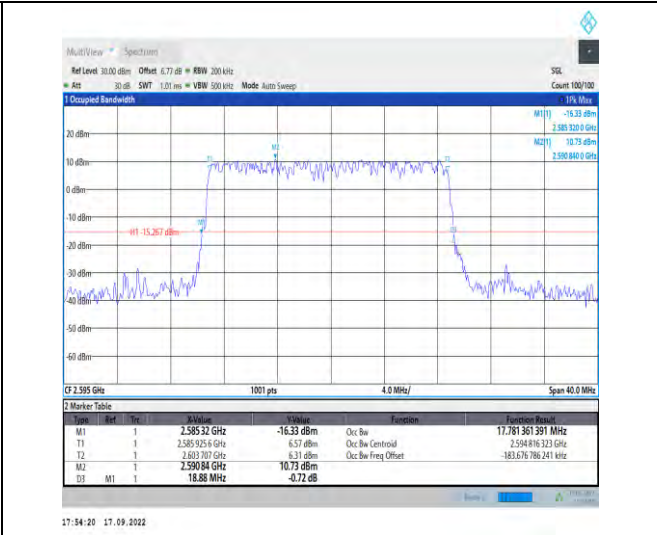


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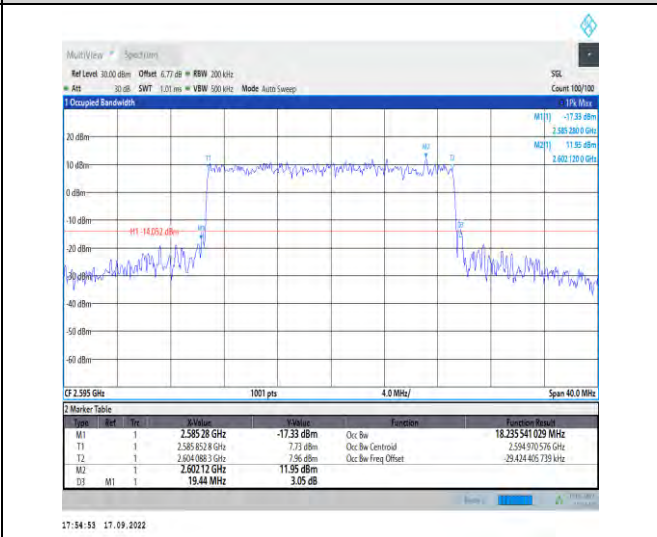
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t1-17.854-18.760-≤20-PASS



1-N38--30-20-M-5-DFT-256QAM-Outer\_Full-50@0-Ant  
Ant1-17.781-18.880-≤20-PASS



1-N38--30-20-M-6-CP-QPSK-Outer\_Full-51@0-Ant1-  
8.945-9.520-≤20-PASS

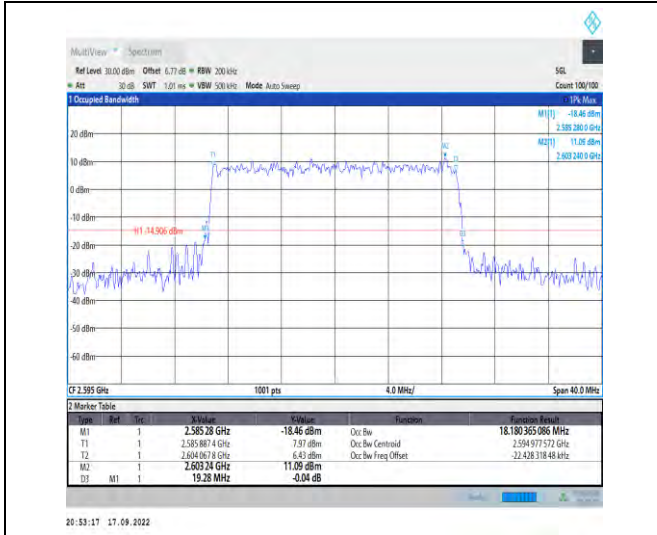


1-N38--30-20-M-7-CP-16QAM-Outer\_Full-51@0-Ant  
1-18.236-19.440-≤20-PASS



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1-N38--30-20-M-8-CP-64QAM-Outer\_Full-51@0-Ant  
1-18.18-19.280-<20-PASS



1-N38--30-20-M-9-CP-256QAM-Outer\_Full-51@0-A  
nt1-18.185-19.120-<20-PASS



1-N38--30-20-H-1-DFT-QPSK-Outer\_Full-50@0-Ant  
1-17.8-18.800-<20-PASS

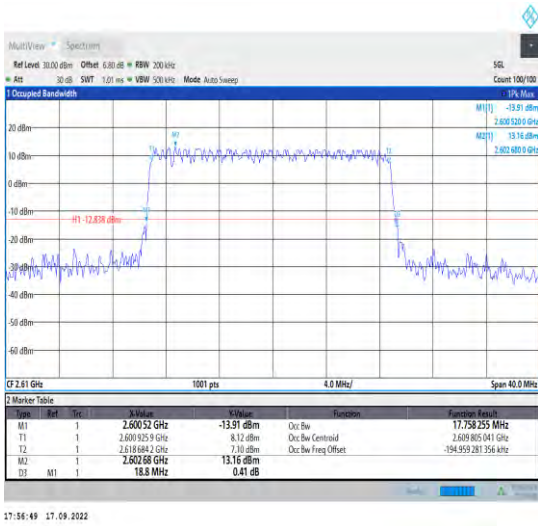


1-N38--30-20-H-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant  
Ant1-17.72-18.720-<20-PASS



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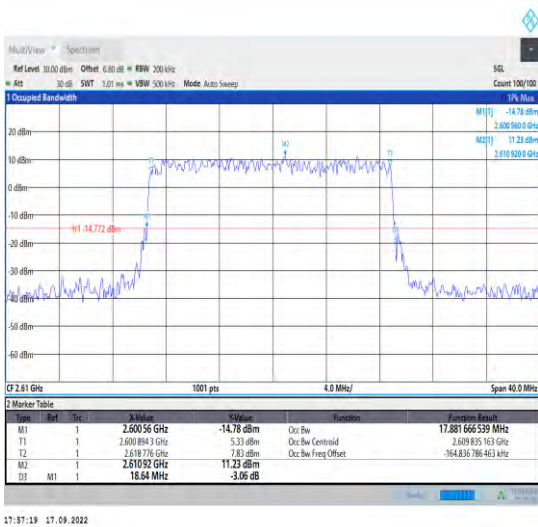
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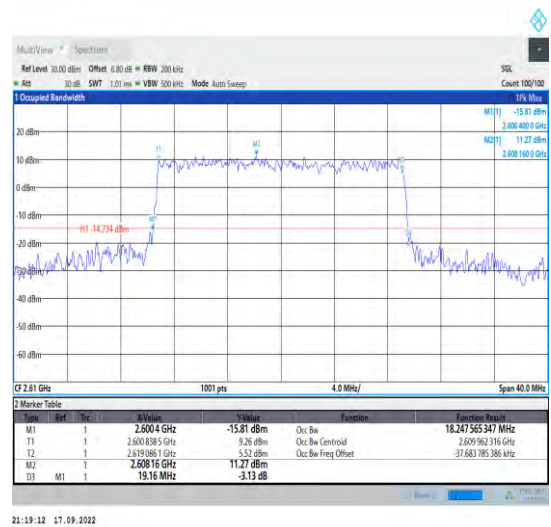
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t1-17.758-18.800-≤20-PASS



1-N38--30-20-H-4-DFT-64QAM-Outer\_Full-50@0-An  
t1-17.759-18.600-≤20-PASS



1-N38--30-20-H-5-DFT-256QAM-Outer\_Full-50@0-A  
nt1-17.882-18.640-≤20-PASS

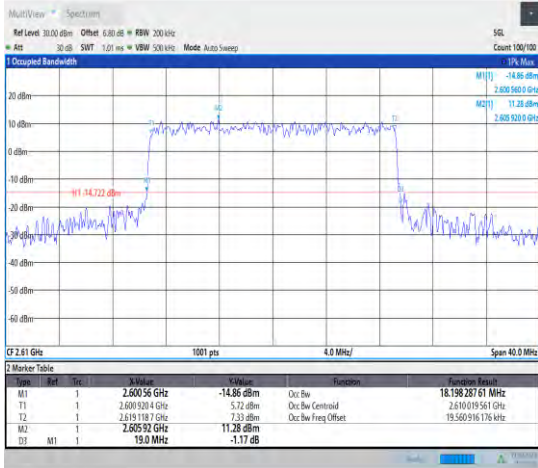


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18.248-19.160-≤20-PASS



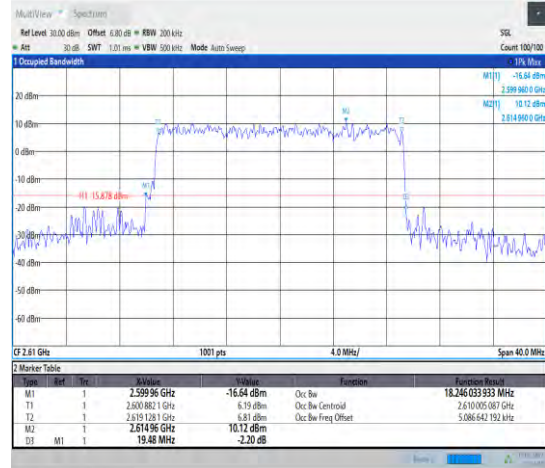
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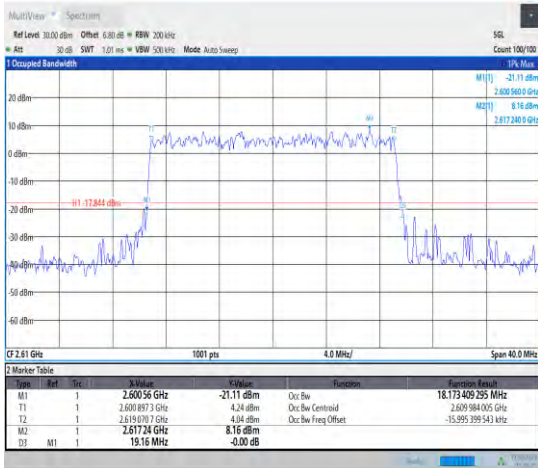
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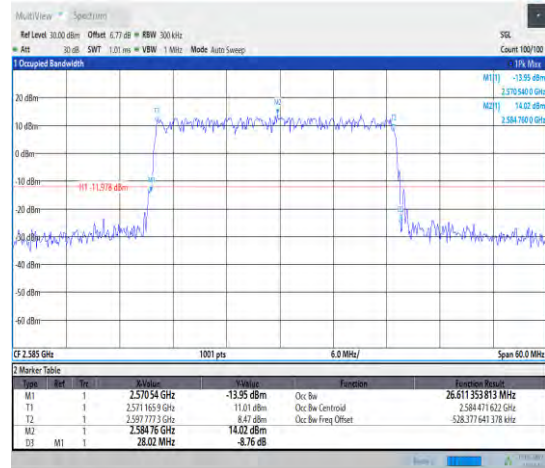
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17:58:22 17.09.2022

1-N38--30-20-H-9-CP-256QAM-Outer\_Full-51@0-An  
t1-18.173-19.160-≤20-PASS



18:54:54 17.09.2022

1-N38--30-30-L-1-DFT-QPSK-Outer\_Full-75@0-Ant1  
-26.611-28.020-≤30-PASS



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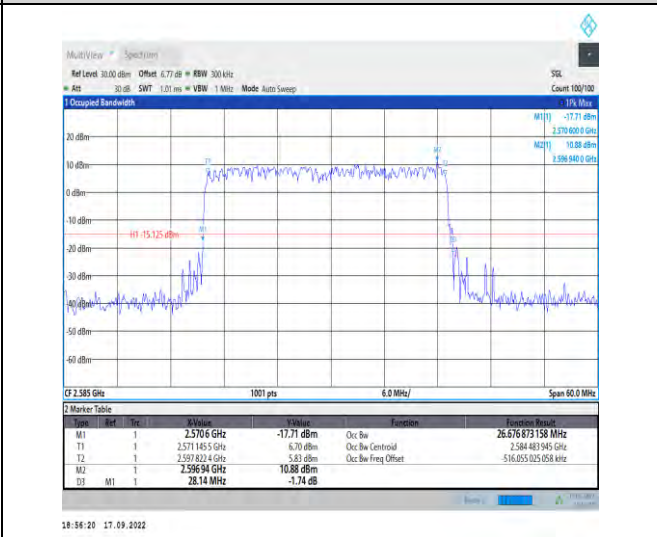
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nt1-26.817-28.500-≤30-PASS



1-N38--30-30-L-3-DFT-16QAM-Outer\_Full-75@0-An  
t1-26.632-27.900-≤30-PASS



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1-26.715-27.960-≤30-PASS



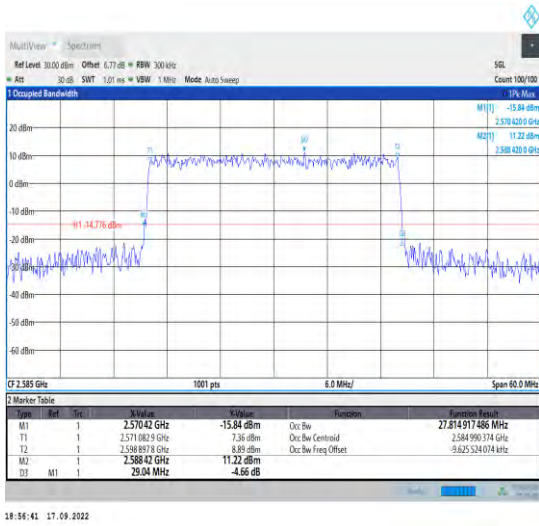
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nt1-26.677-28.140-≤30-PASS



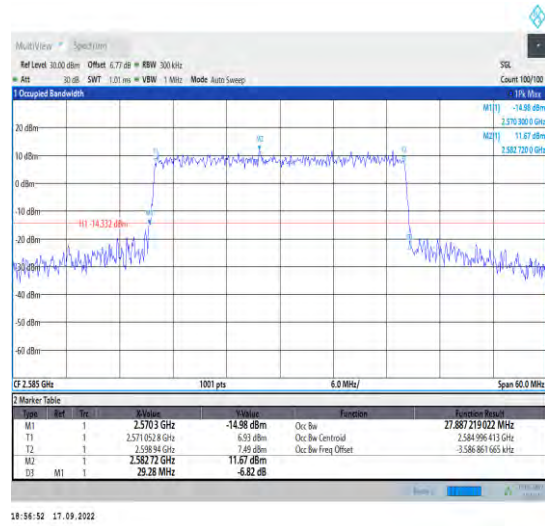
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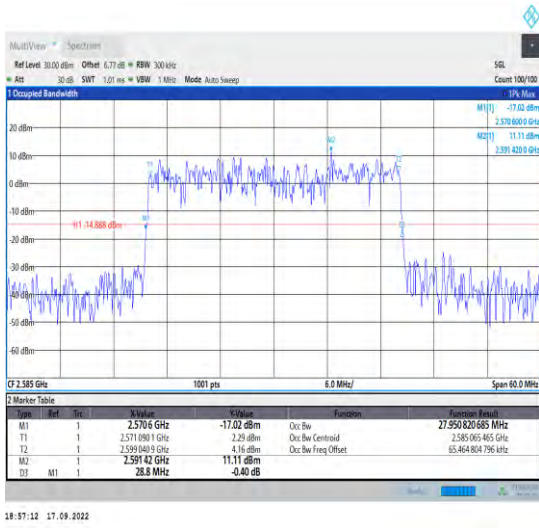




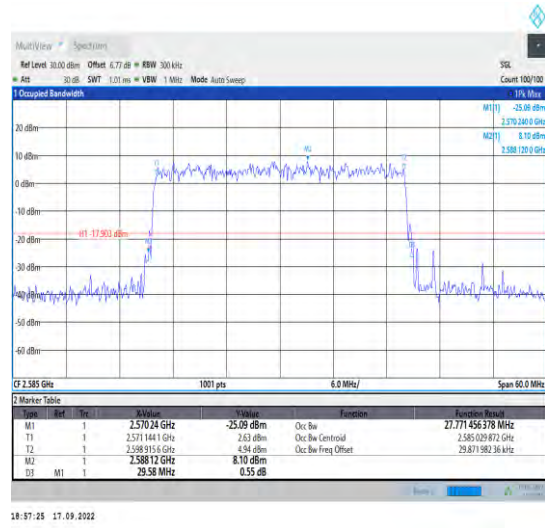
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1-N38--30-30-L-7-CP-16QAM-Outer\_Full-78@0-Ant1-27.887-29.280-<30-PASS



1-N38--30-30-L-8-CP-64QAM-Outer\_Full-78@0-Ant1-27.951-28.800-<30-PASS



1-N38--30-30-L-9-CP-256QAM-Outer\_Full-78@0-Ant1-27.771-29.580-<30-PASS



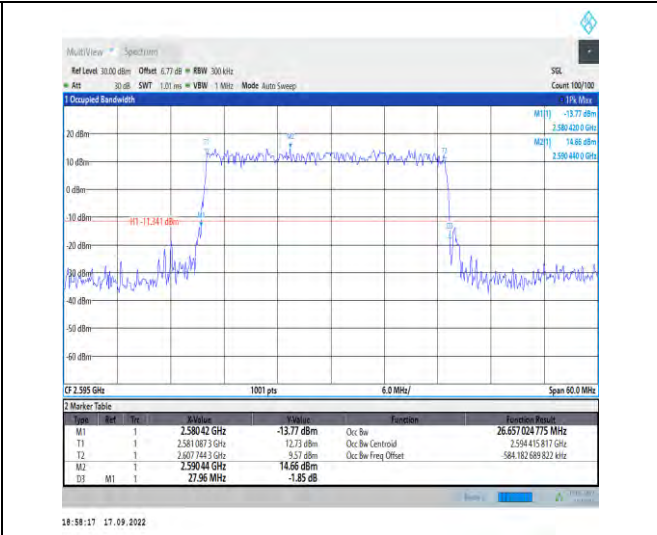
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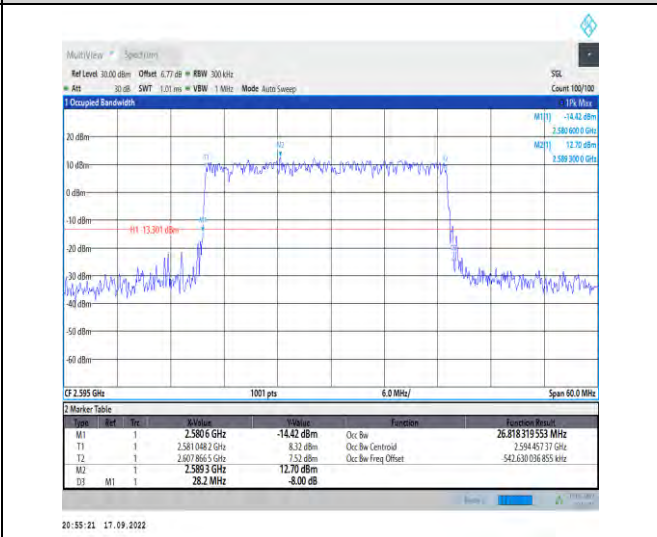
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1-26.642-28.020-<30-PASS



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1-26.657-27.960-<30-PASS



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t1-26.796-28.500-<30-PASS

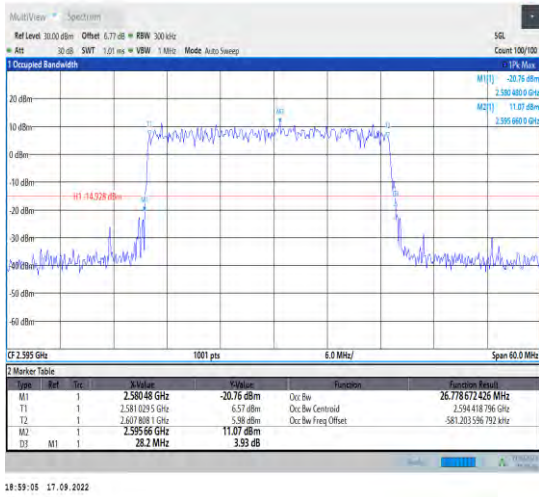


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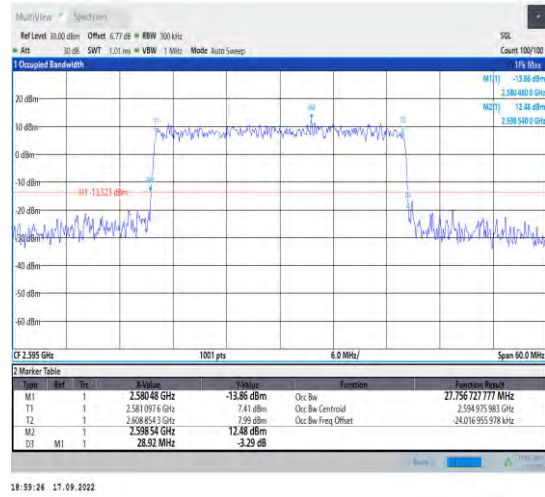


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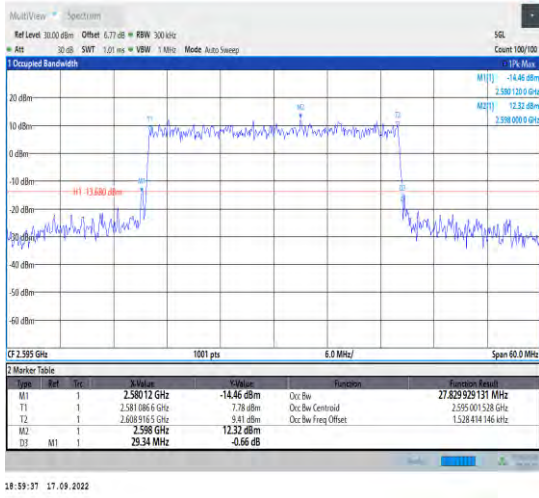
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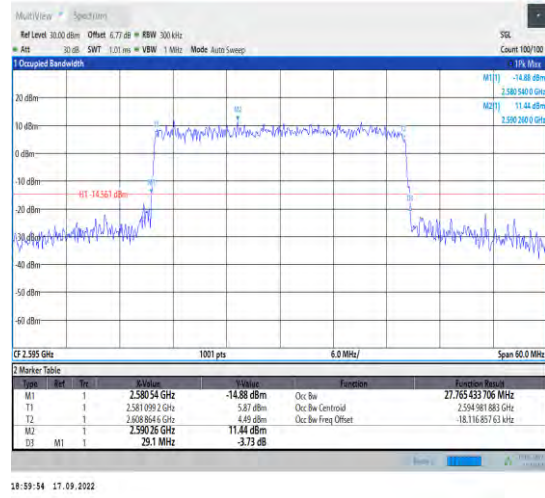
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nt1-26.779-28.200-≤30-PASS



1-N38--30-30-M-6-CP-QPSK-Outer\_Full-78@0-Ant1  
-27.757-28.920-≤30-PASS



1-N38--30-30-M-7-CP-16QAM-Outer\_Full-78@0-Ant  
1-27.83-29.340-≤30-PASS

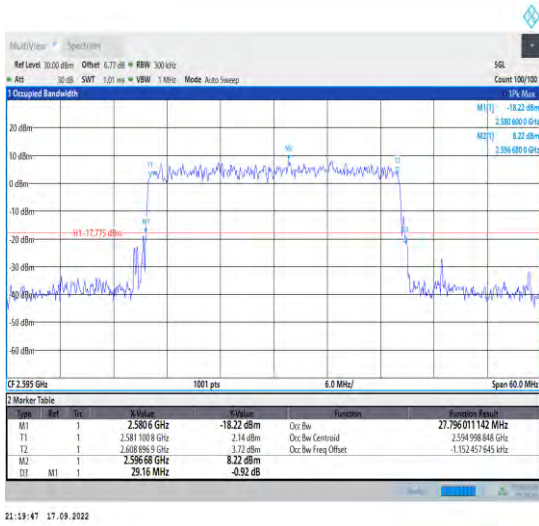


1-N38--30-30-M-8-CP-64QAM-Outer\_Full-78@0-Ant  
1-27.765-29.100-≤30-PASS



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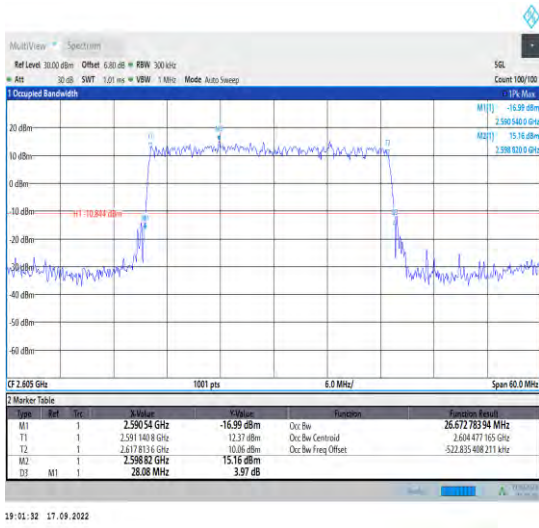
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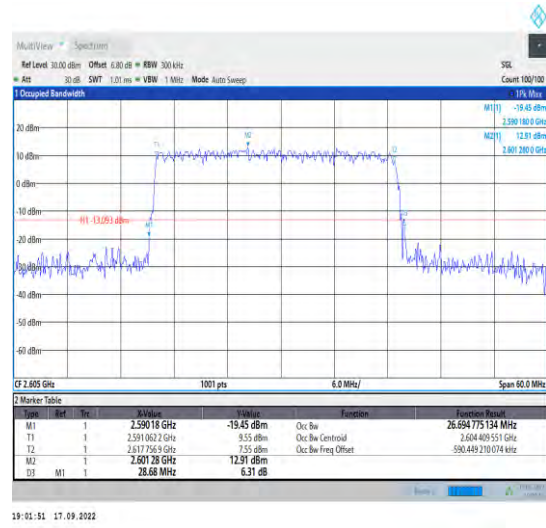
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1-26.775-28.080<30-PASS



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Ant1-26.673-28.080<30-PASS

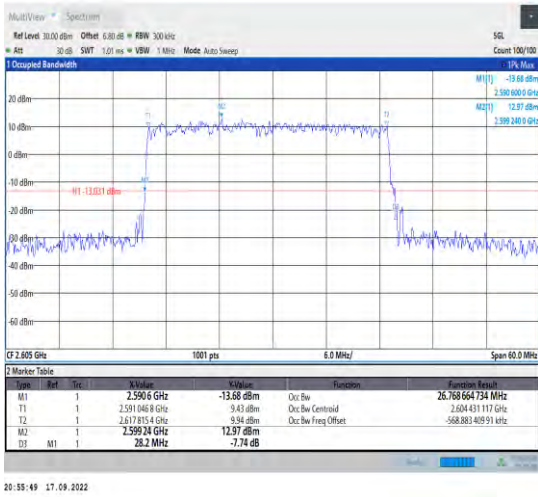


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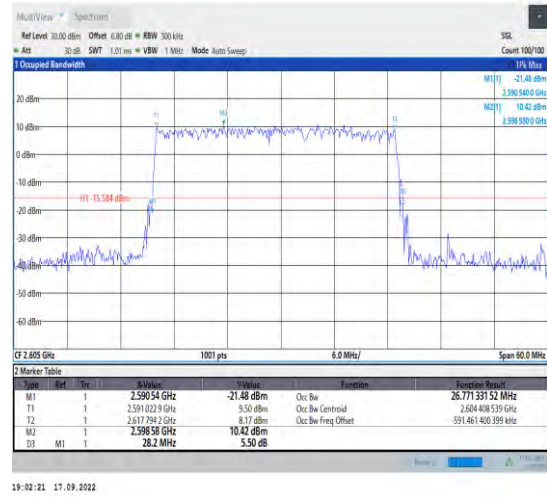


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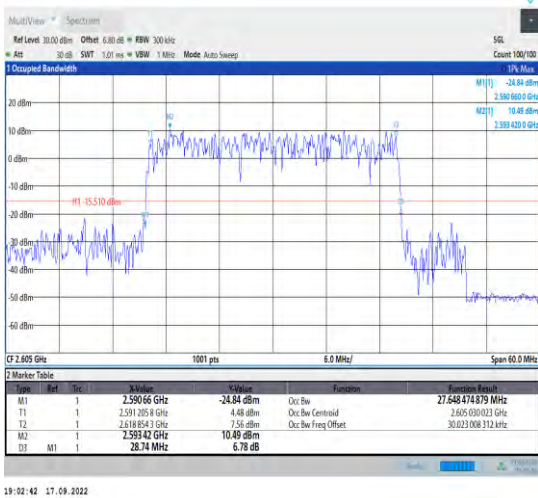
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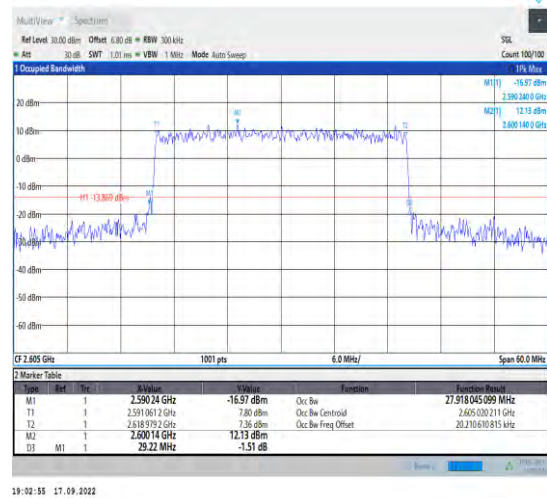
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1-N38--30-30-H-5-DFT-256QAM-Outer\_Full-75@0-A  
nt1-26.771-28.200<=30-PASS



1-N38--30-30-H-6-CP-QPSK-Outer\_Full-78@0-Ant1-  
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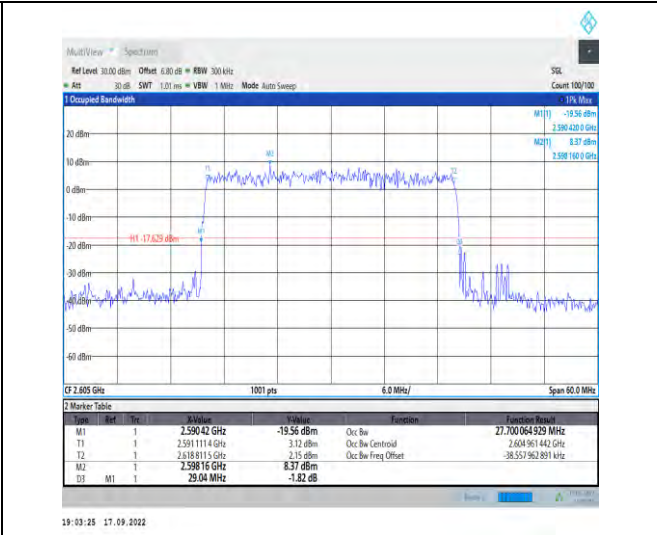
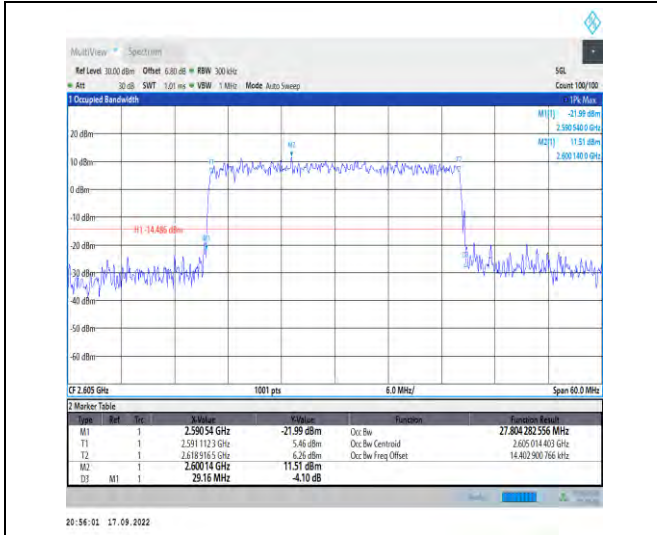


1-N38--30-30-H-7-CP-16QAM-Outer\_Full-78@0-Ant  
1-27.918-29.220<=30-PASS



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1-N38--30-30-H-8-CP-64QAM-Outer\_Full-78@0-Ant  
1-27.804-29.160-≤30-PASS

1-N38--30-30-H-9-CP-256QAM-Outer\_Full-78@0-Ant  
t1-27.7-29.040-≤30-PASS



1-N38--30-40-L-1-DFT-QPSK-Outer\_Full-100@0-Ant  
1-35.703-37.760-≤40-PASS

1-N38--30-40-L-2-DFT-PI2BPSK-Outer\_Full-100@0-Ant  
Ant1-35.757-37.360-≤40-PASS



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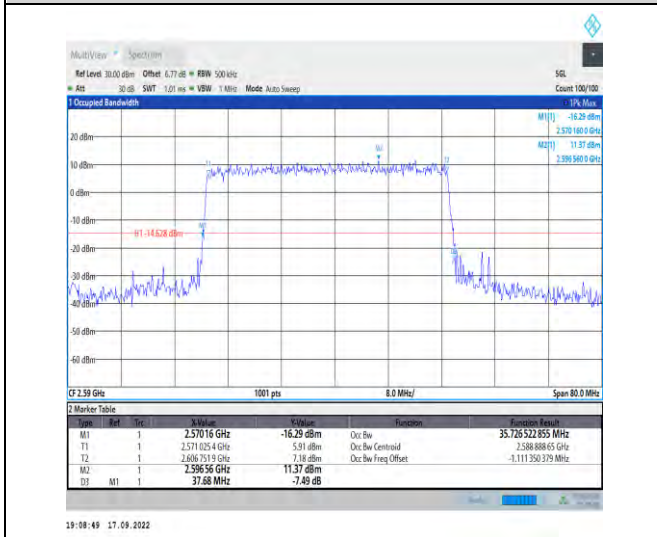
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1-N38--30-40-L-3-DFT-16QAM-Outer\_Full-100@0-A  
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nt1-35.56-37.360-≤40-PASS



1-N38--30-40-L-5-DFT-256QAM-Outer\_Full-100@0-A  
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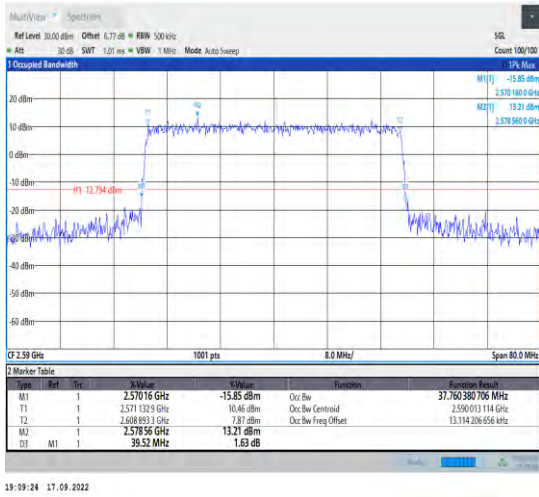


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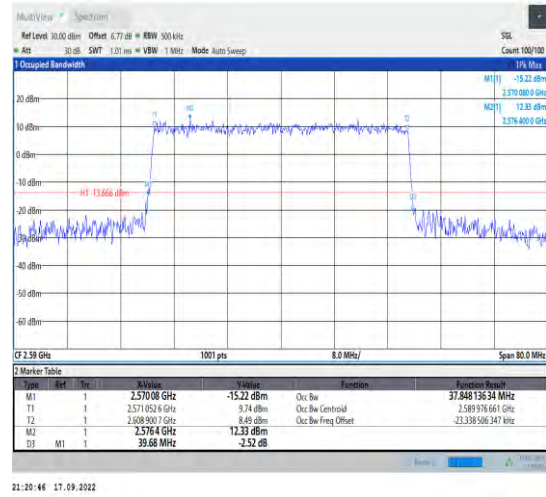


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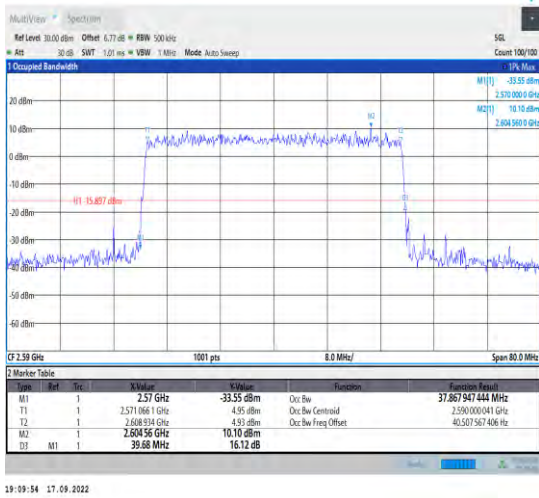
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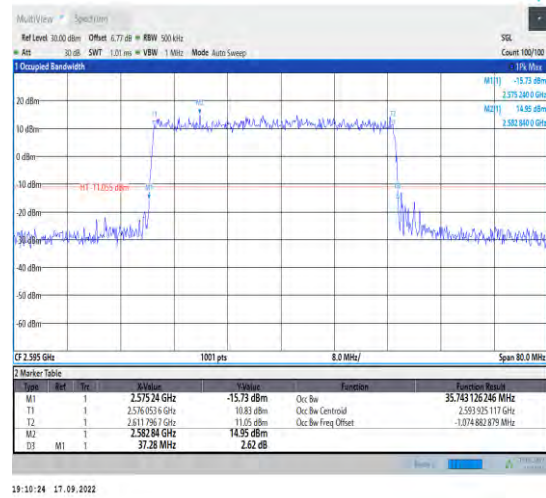
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t1-37.848-39.680-<40-PASS



1-N38--30-40-L-9-CP-256QAM-Outer\_Full-106@0-A  
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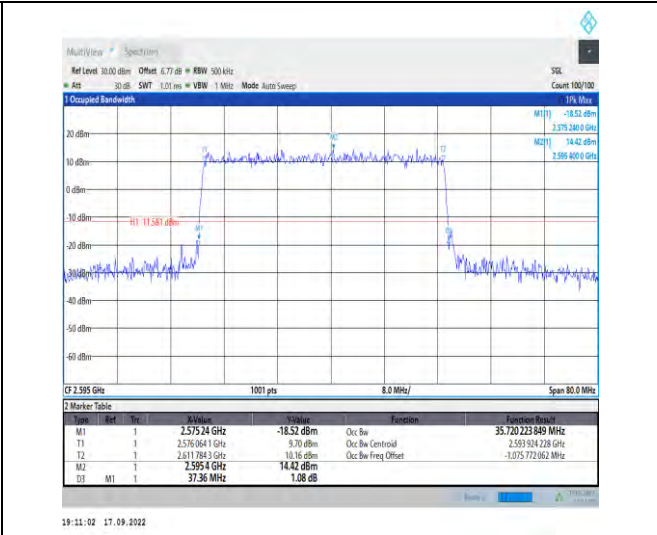
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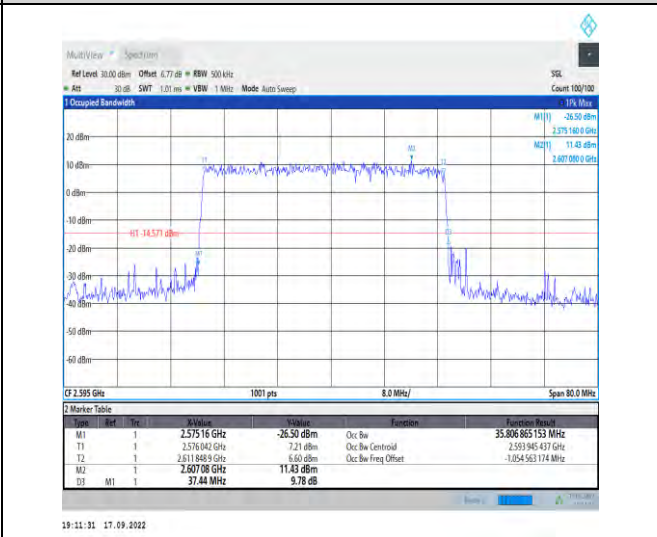
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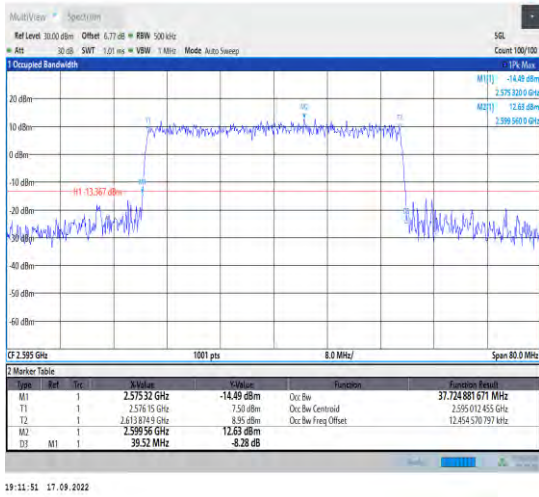
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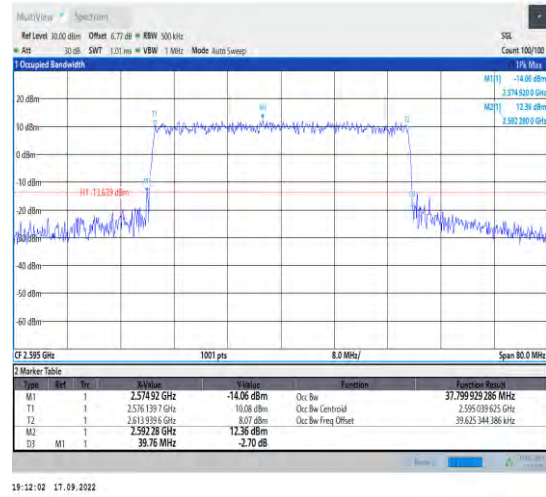
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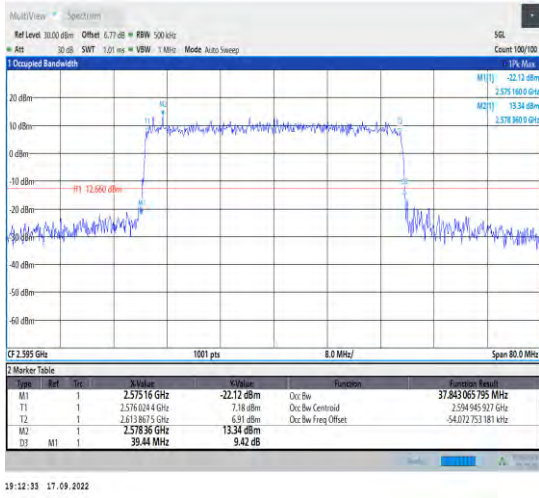
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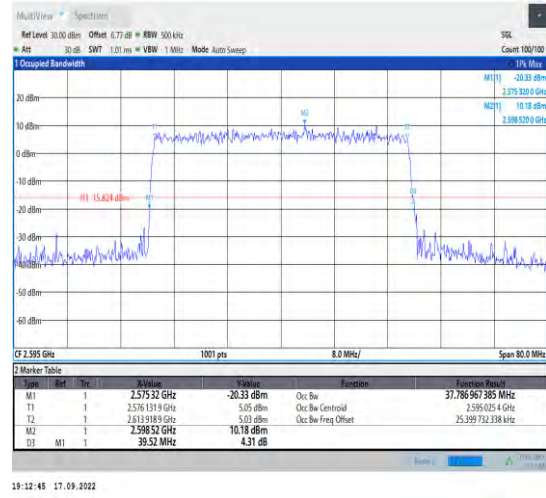
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1-N38--30-40-M-7-CP-16QAM-Outer\_Full-106@0-A  
nt1-37.8-39.760-<40-PASS



1-N38--30-40-M-8-CP-64QAM-Outer\_Full-106@0-An  
t1-37.843-39.440-<40-PASS

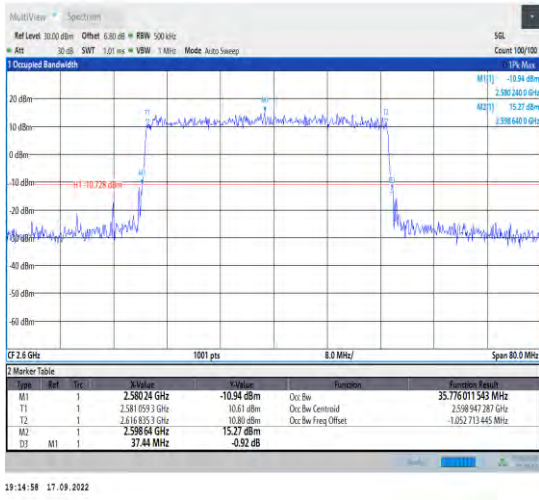


1-N38--30-40-M-9-CP-256QAM-Outer\_Full-106@0-Ant  
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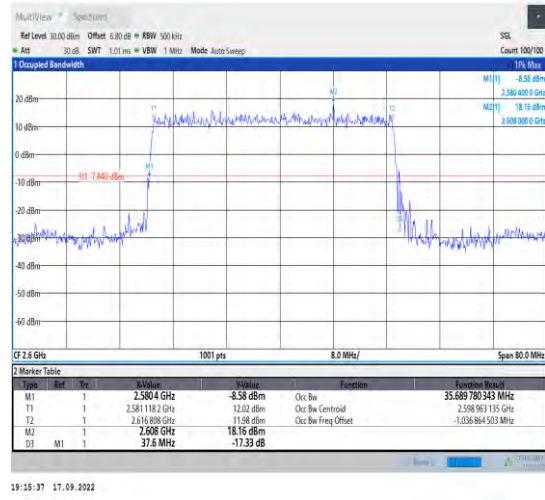


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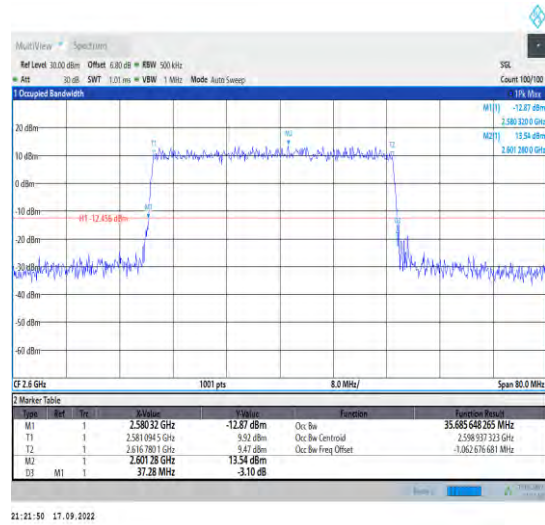
1-N38--30-40-H-1-DFT-QPSK-Outer\_Full-100@0-An  
t1-35.776-37.440-<40-PASS



1-N38--30-40-H-2-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-35.69-37.600-<40-PASS



1-N38--30-40-H-3-DFT-16QAM-Outer\_Full-100@0-A  
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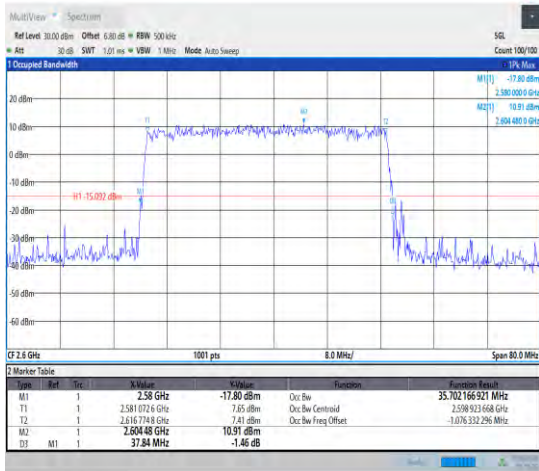


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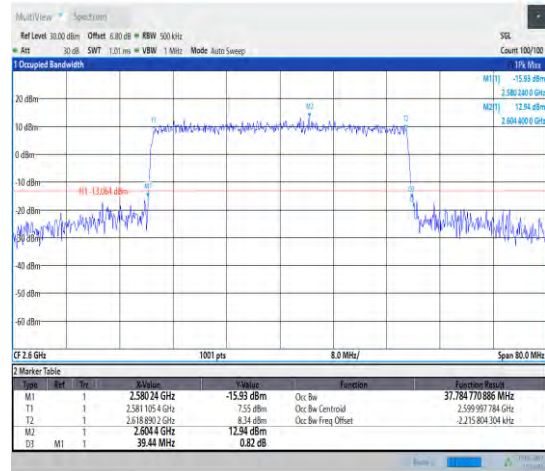
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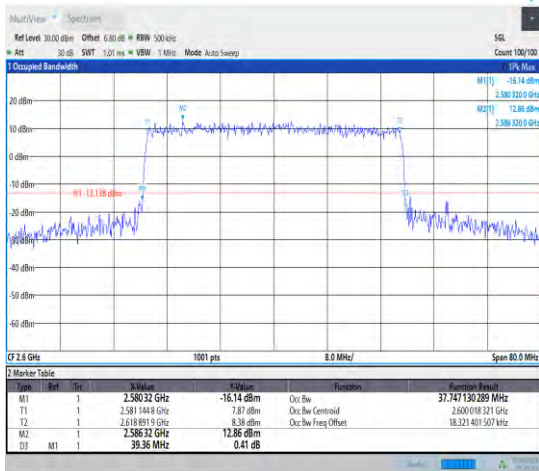
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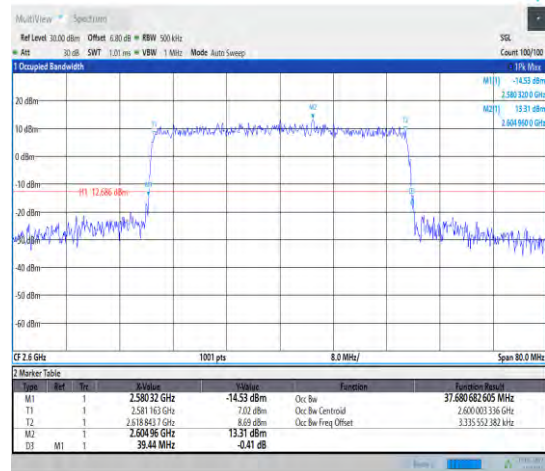
19:16:47 17.09.2022

1-N38--30-40-H-6-CP-QPSK-Outer\_Full-106@0-Ant 1-37.785-39.440-<40-PASS



19:16:58 17.09.2022

1-N38--30-40-H-7-CP-16QAM-Outer\_Full-106@0-An t1-37.747-39.360-<40-PASS



19:17:16 17.09.2022

1-N38--30-40-H-8-CP-64QAM-Outer\_Full-106@0-An t1-37.681-39.440-<40-PASS



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1-N38--30-40-H-9-CP-256QAM-Outer\_Full-106@0-A  
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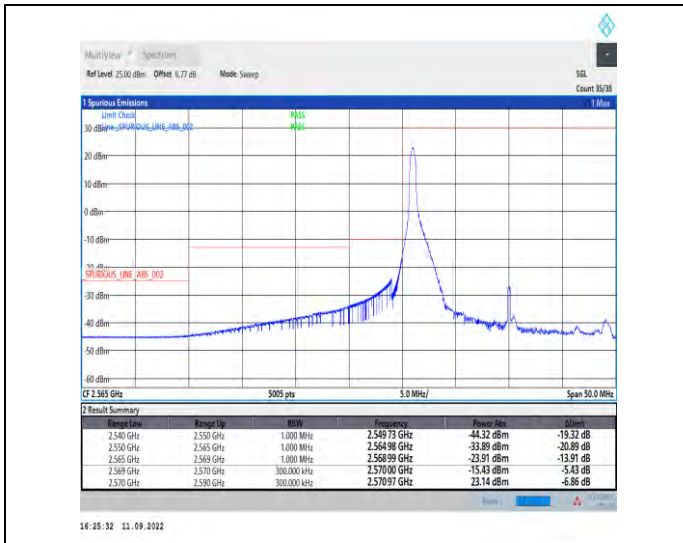


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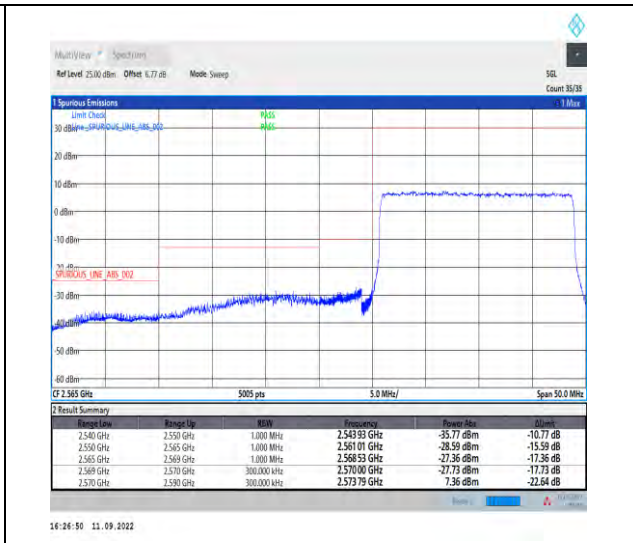
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## Band Edge for SA

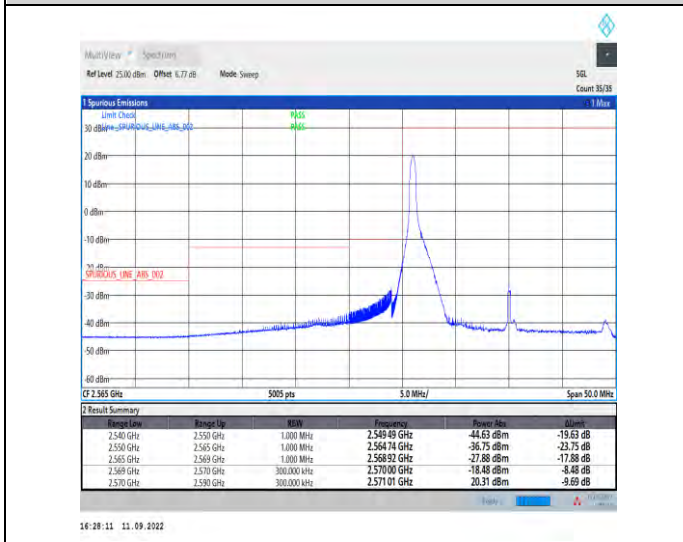
### Test Graphs



1-N38--30-20-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



1-N38--30-20-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N38--30-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

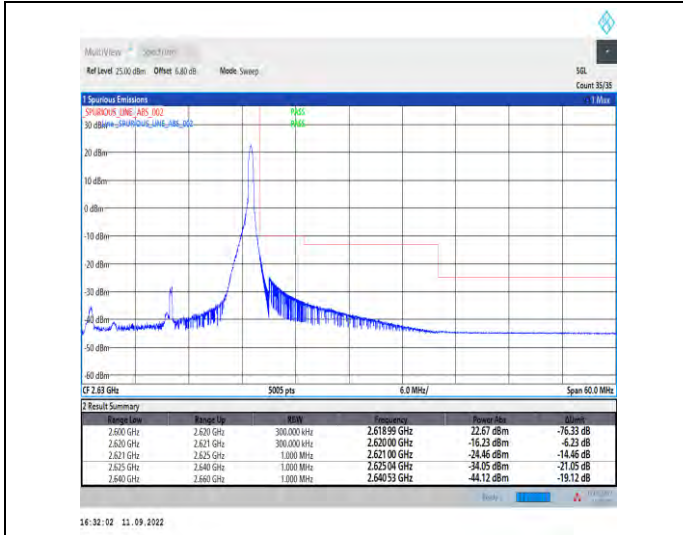


1-N38--30-20-L-6-CP-QPSK-Outer\_Full-51@0-Ant1-1--PASS-see graph



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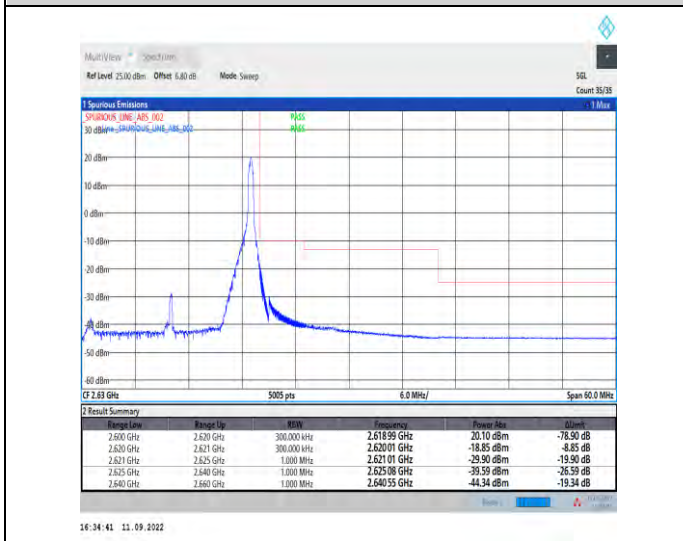
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1-N38--30-20-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@50-Ant1-1--PASS-see graph



1-N38--30-20-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N38--30-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@50-Ant1-1--PASS-see graph

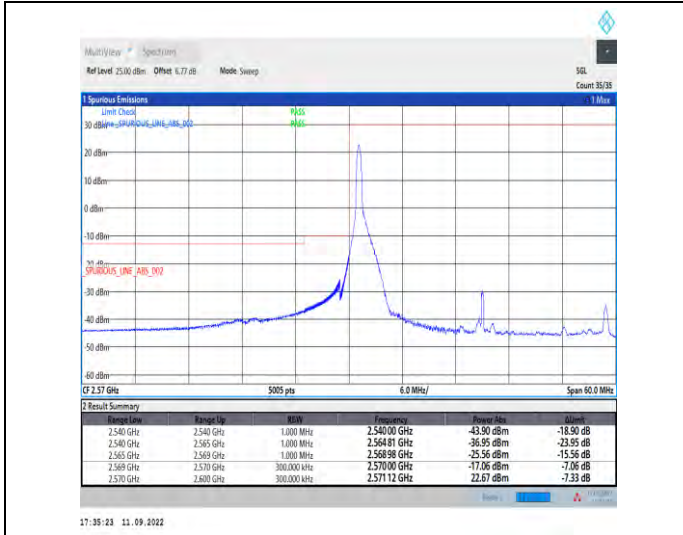


1-N38--30-20-H-6-CP-QPSK-Outer\_Full-51@0-Ant1-1--PASS-see graph



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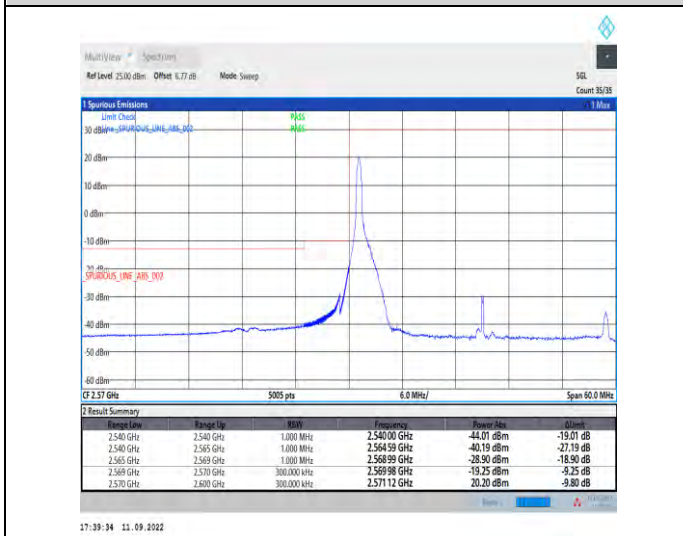
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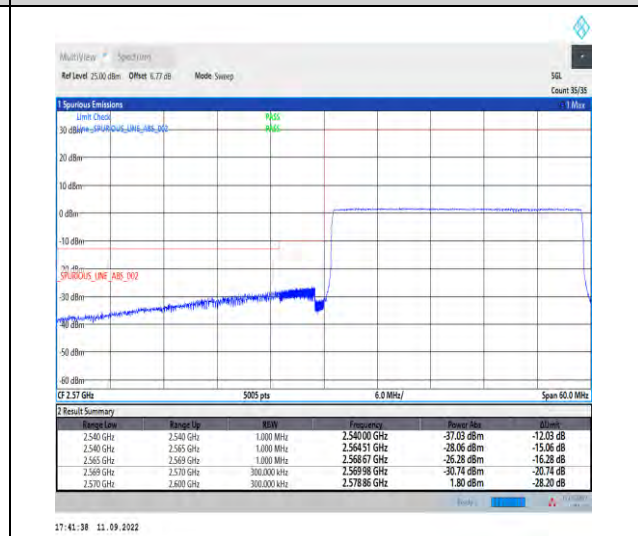
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1-N38--30-30-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-1--PASS-see graph



1-N38--30-30-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



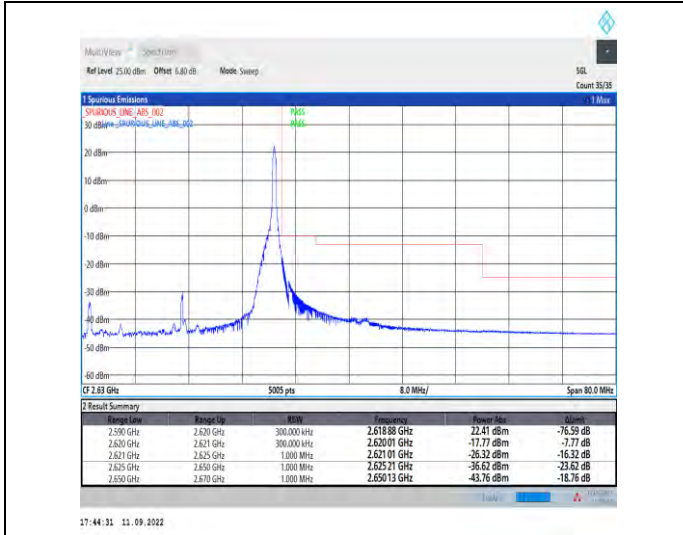
1-N38--30-30-L-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



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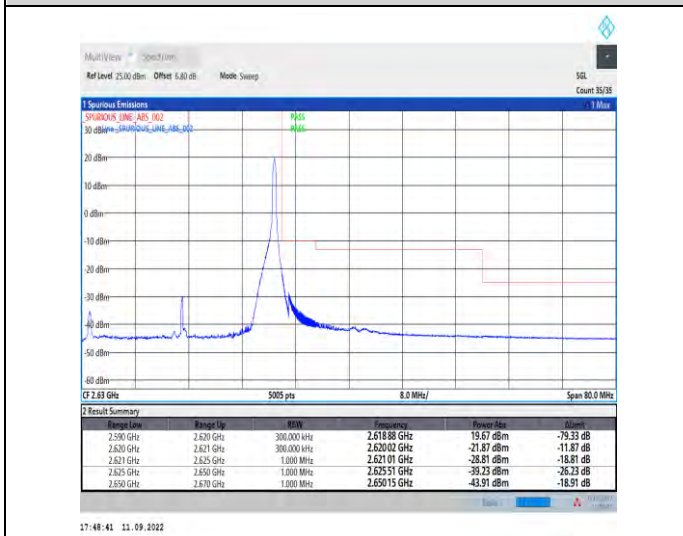




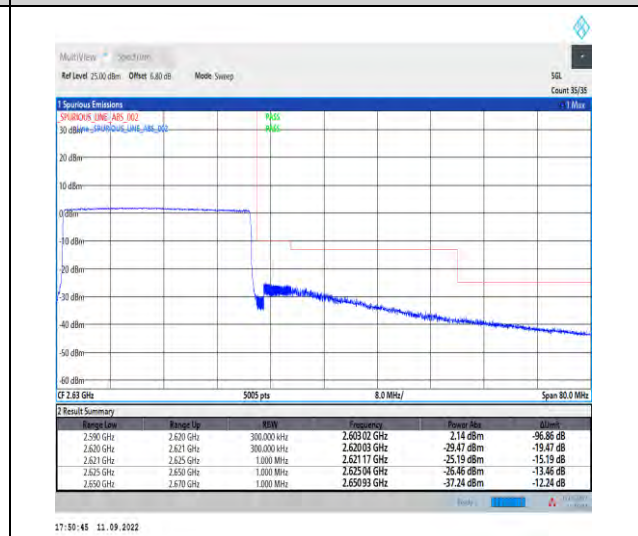
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1-N38--30-30-H-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant1-1--PASS-see graph



1-N38--30-30-H-5-CP-QPSK-Edge\_1RB\_Right-1@77-Ant1-1--PASS-see graph

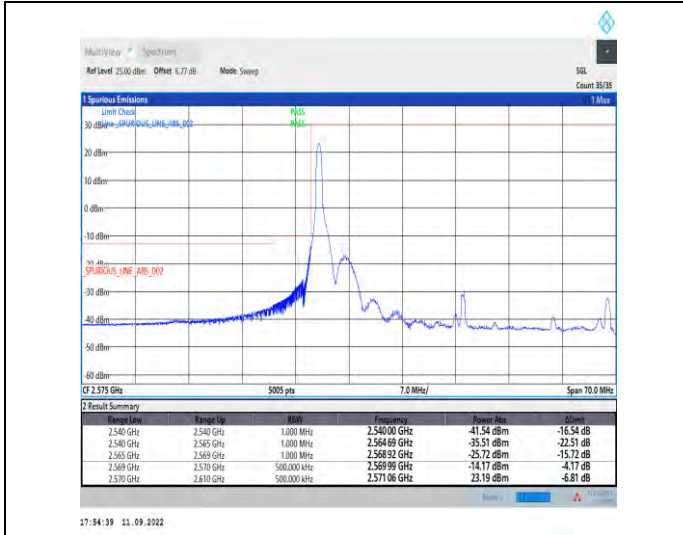


1-N38--30-30-H-6-CP-QPSK-Outer\_Full-78@0-Ant1-1--PASS-see graph



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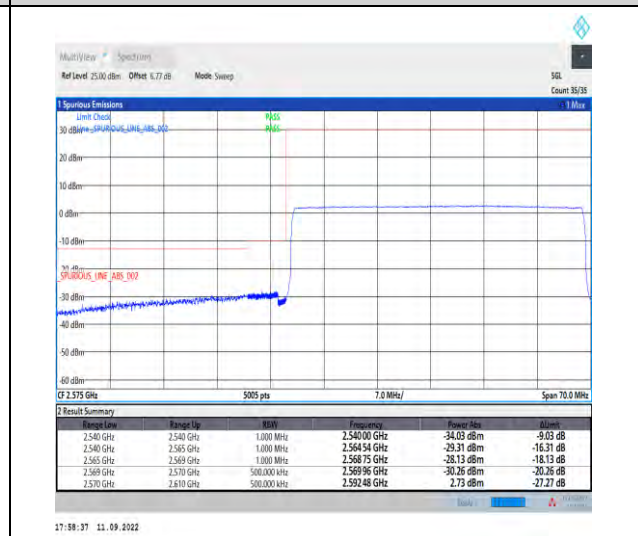
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1-N38--30-40-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1--PASS-see graph



1-N38--30-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



1-N38--30-40-L-6-CP-QPSK-Outer\_Full-106@0-Ant1-1--PASS-see graph

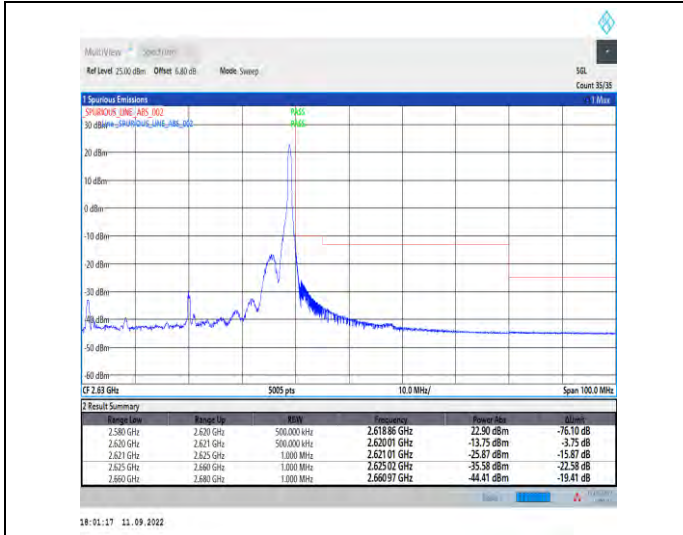


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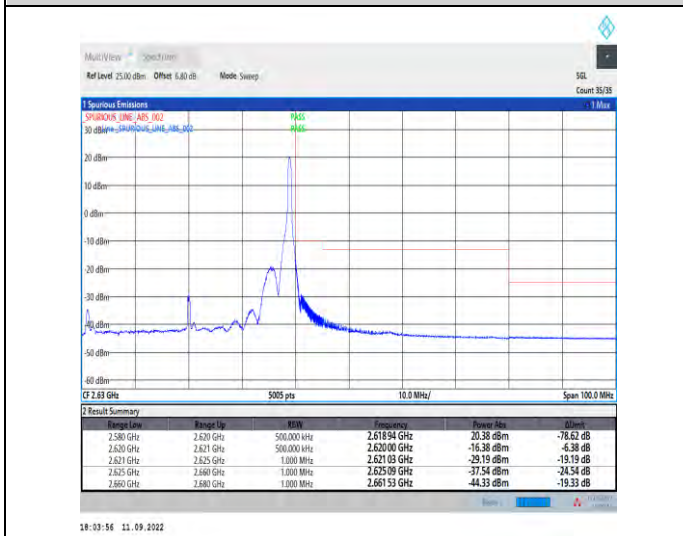
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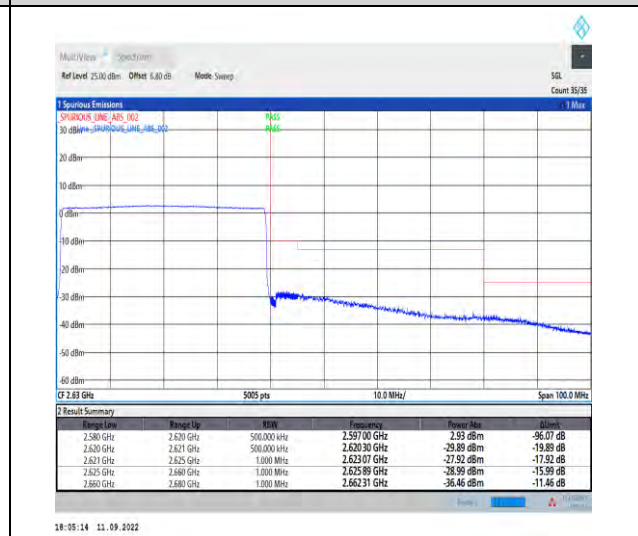
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1-N38--30-40-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-1--PASS-see graph



1-N38--30-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant1-1--PASS-see graph



1-N38--30-40-H-6-CP-QPSK-Outer\_Full-106@0-Ant1-1--PASS-see graph



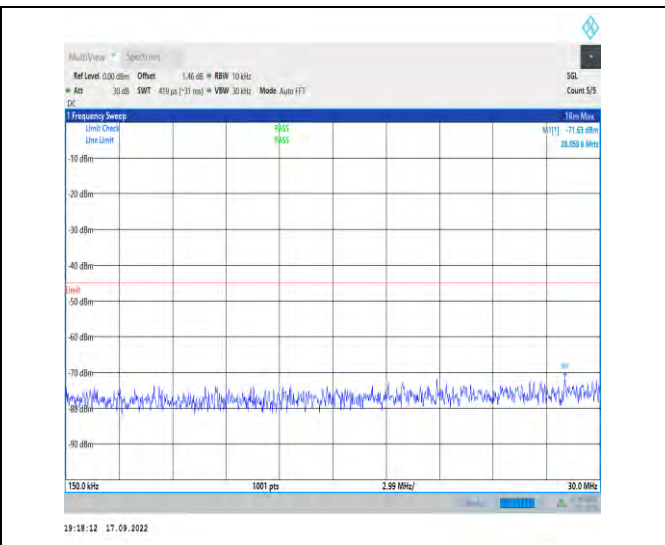
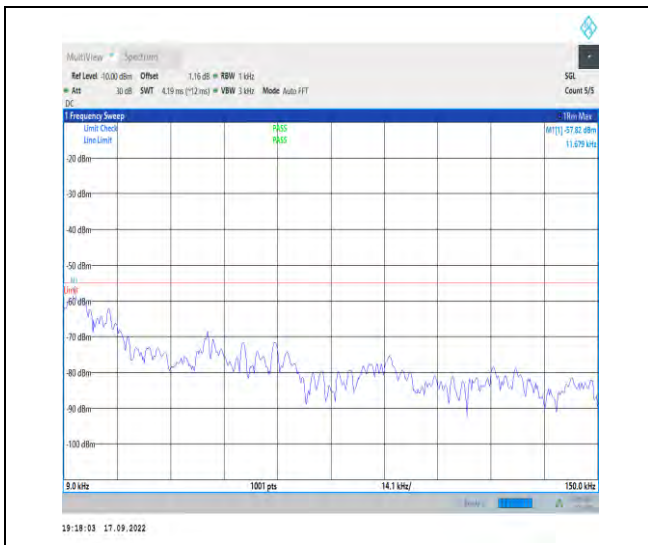
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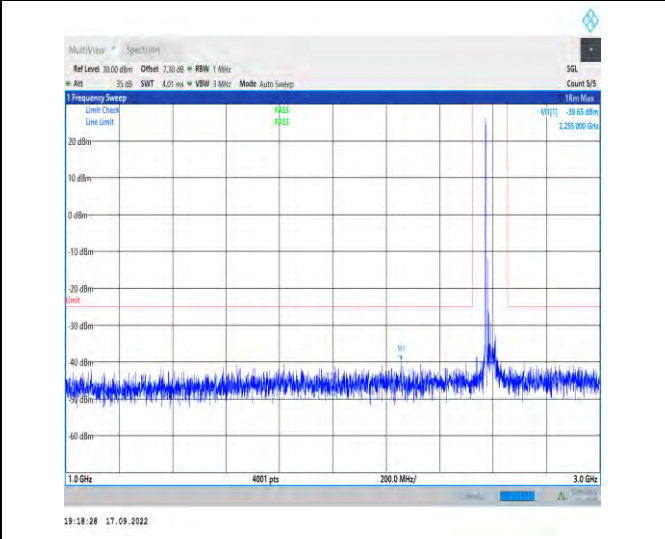
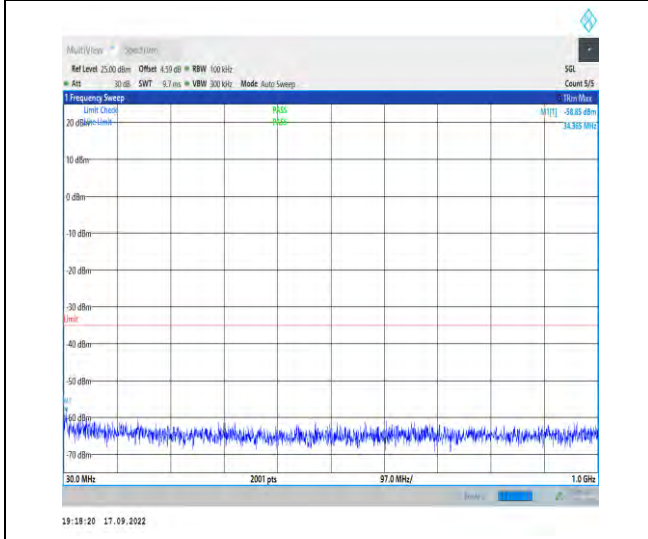
### Conducted Spurious Emission for SA

### Test Graphs



1-N38--30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-0.009-0.15-Ant1-0.01--57.82--55-PASS

1-N38--30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@ 1-0.15-30-Ant1-28.06--71.63--45-PASS



1-N38--30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-30-1000-Ant1-34.37--58.85--35-PASS

1-N38--30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@ 1-1000-3000-Ant1-2255.00--39.65--25-PASS

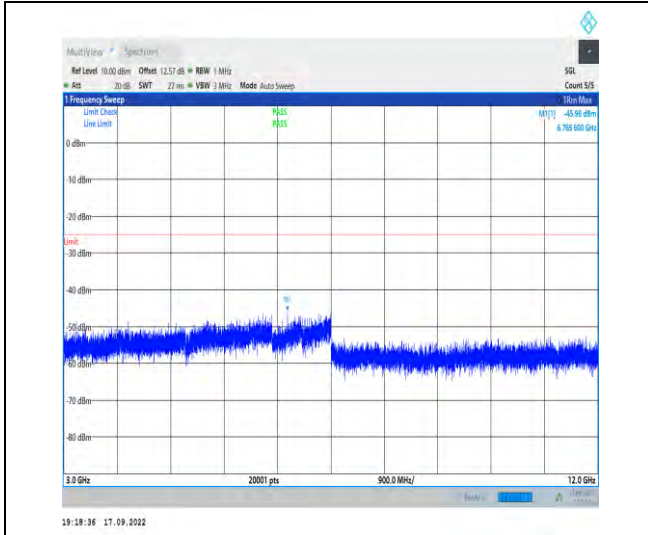


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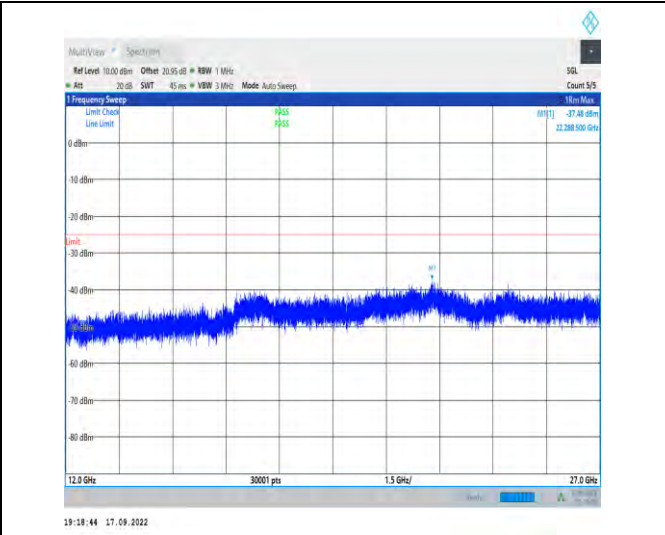
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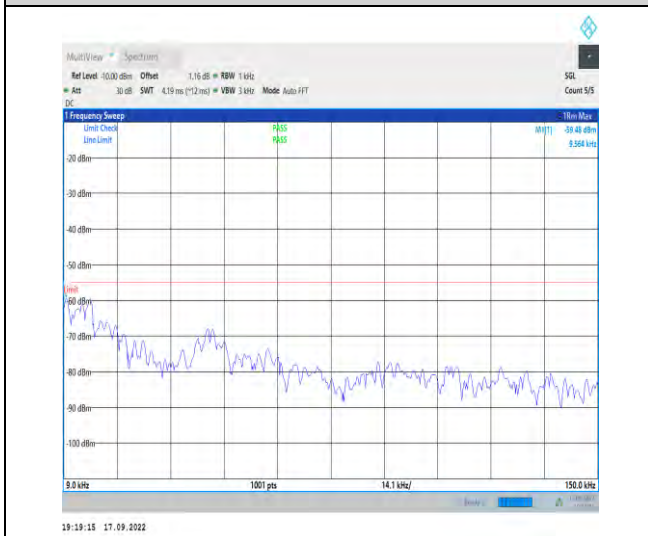
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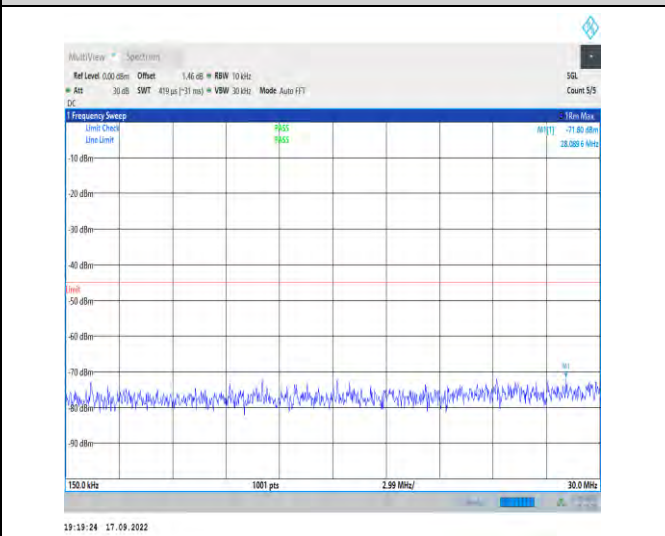
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1-N38--30-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-27000-Ant1-22288.50--37.48--25-PASS



1-N38--30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.009-0.15-Ant1-0.01--59.48--55-PASS



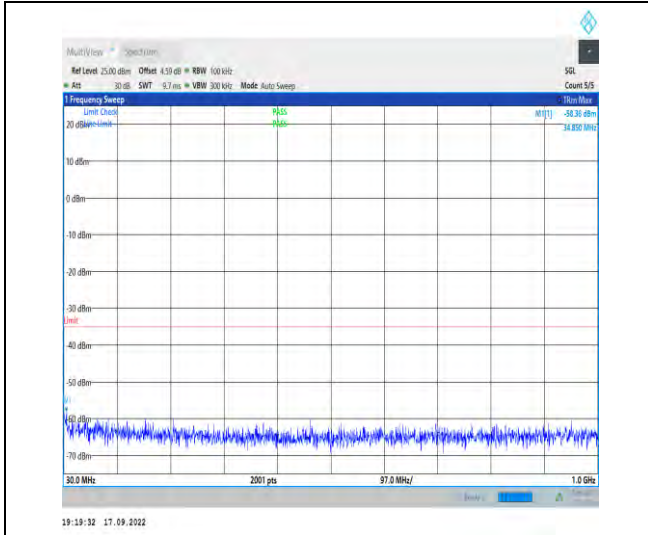
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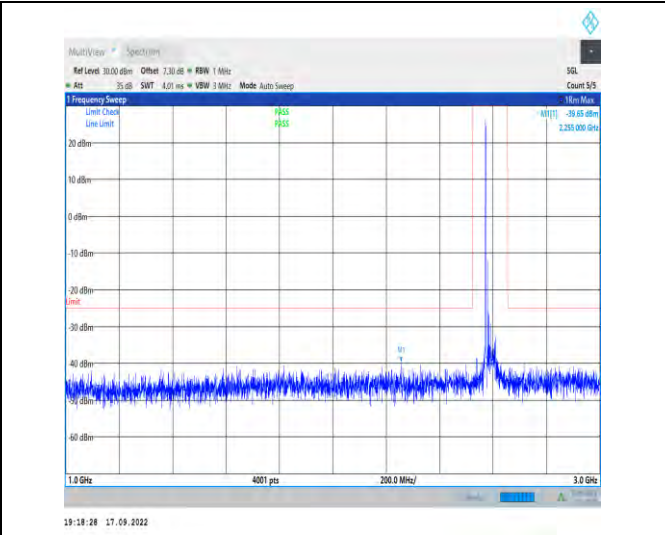
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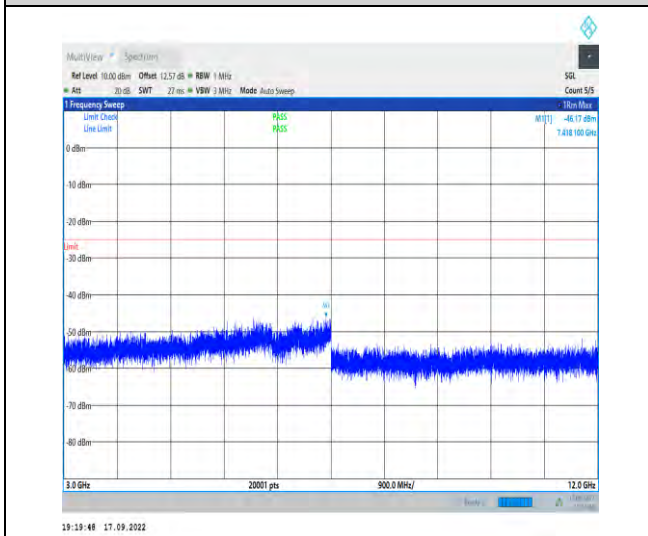
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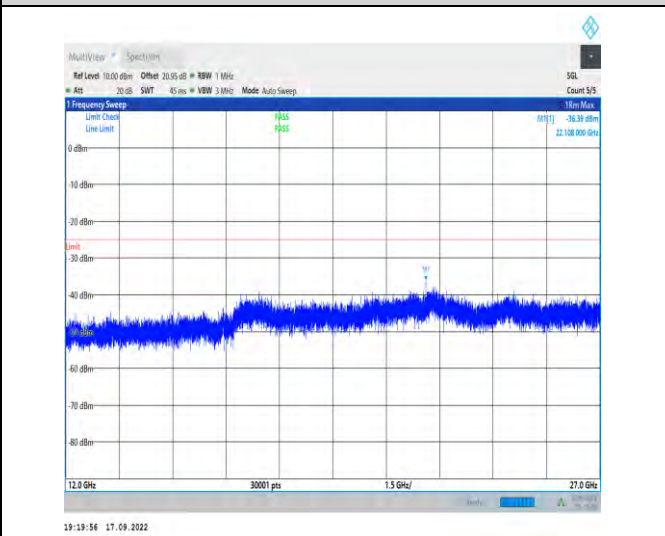
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1-N38--30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-1000-3000-Ant1-2187.00--39.72--25-PASS



1-N38--30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-3000-12000-Ant1-7418.10--46.17--25-PASS



1-N38--30-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-12000-27000-Ant1-22108.00--36.39--25-PASS

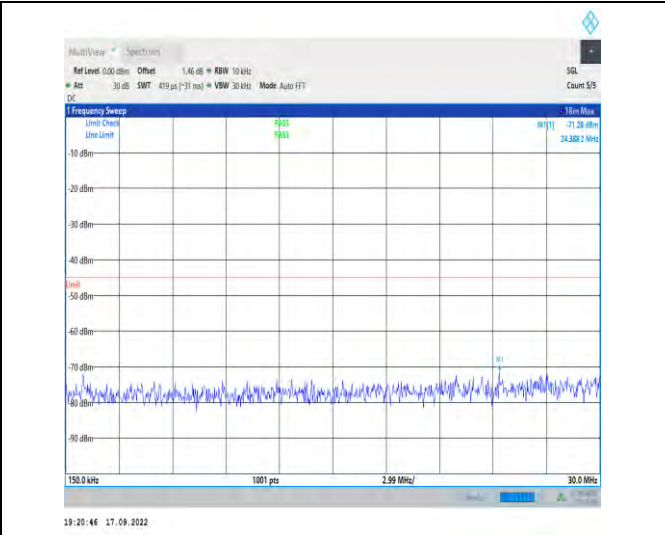


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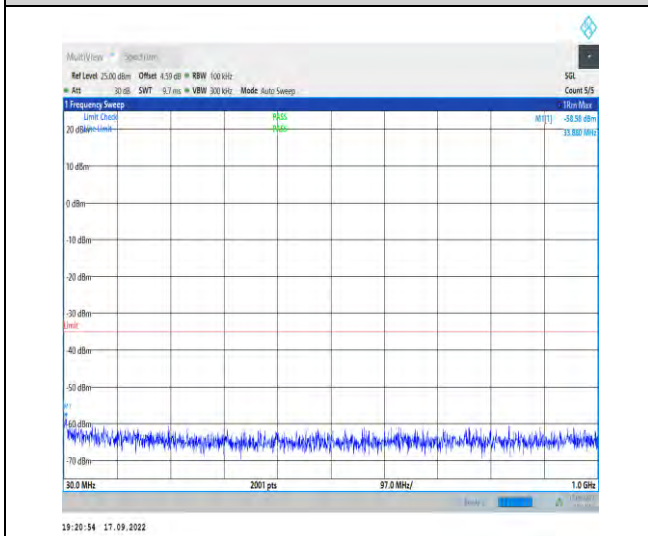
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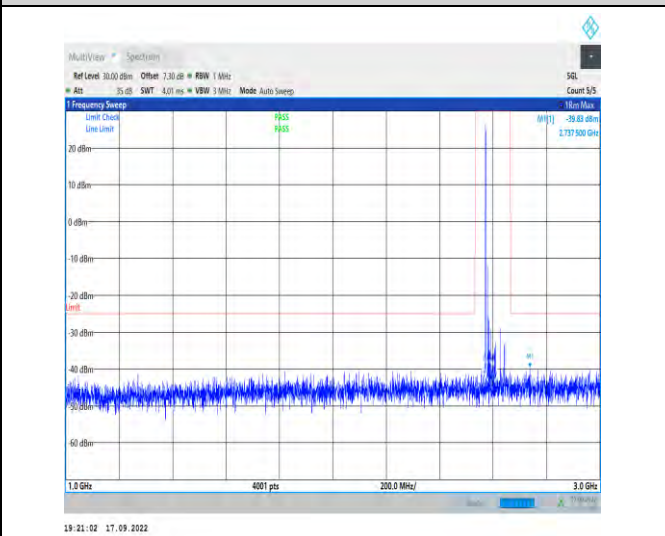
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1-N38--30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant1-24.39--71.28--45-PASS



1-N38--30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant1-33.88--58.58--35-PASS



1-N38--30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-3000-Ant1-2737.50--39.83--25-PASS



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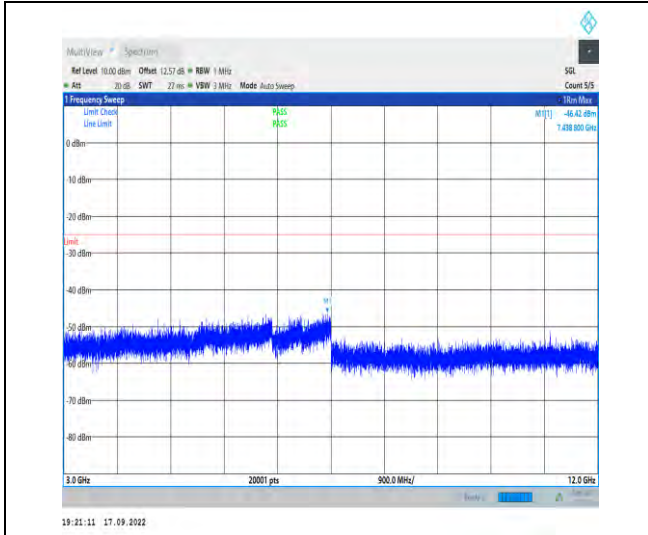
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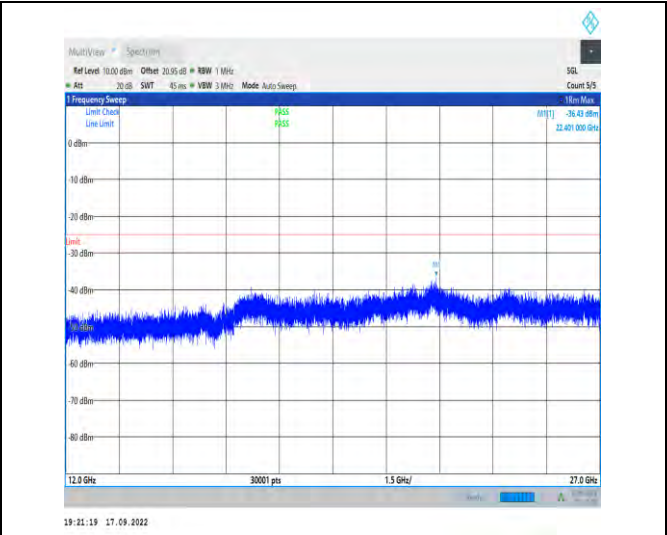
Report No.: SEWM2209000170RG02

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1-N38--30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-3000-12000-Ant1-7438.80--46.42--25-PASS



1-N38--30-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-12000-27000-Ant1-22401.00--36.43--25-PASS



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## Field Strength of Spurious Radiation

**Test Band = 5G NR SA Band38\_ TM1**

**Test Channel = Low ANT0**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3309.75	53.34	-46.44	29.54	-58.82	-25.00	33.82	162	43	Horizontal
2	5144.1800	48.66	-45.33	32.96	-58.97	-25.00	33.97	145	288	Horizontal
3	7716.2700	45.23	-42.98	36.62	-56.40	-25.00	31.40	132	354	Horizontal
4	10288.3600	36.90	-39.14	38.83	-58.67	-25.00	33.67	158	334	Horizontal
5	12860.4500	34.04	-37.00	39.69	-58.53	-25.00	33.53	146	302	Horizontal
6	15432.5400	30.65	-34.11	38.67	-60.05	-25.00	35.05	192	358	Horizontal

**Test Band = 5G NR SA Band38\_ TM1**

**Test Channel = Low ANT0**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3981.75	51.67	-46.08	30.76	-58.92	-25.00	33.92	156	30	Vertical
2	5144.1800	47.69	-45.33	32.96	-59.94	-25.00	34.94	142	334	Vertical
3	7716.2700	44.52	-42.98	36.62	-57.11	-25.00	32.11	188	319	Vertical
4	10288.3600	36.90	-39.14	38.83	-58.67	-25.00	33.67	195	334	Vertical
5	12860.4500	35.17	-37.00	39.69	-57.40	-25.00	32.40	142	359	Vertical
6	15432.5400	31.65	-34.11	38.67	-59.05	-25.00	34.05	130	14	Vertical



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Test Band = 5G NR SA Band38\_ TM1
Test Channel = Mid ANTO

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Test Band = 5G NR SA Band38\_ TM1
Test Channel = Mid ANTO

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.



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**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = High ANTO**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3996.75	51.67	-46.05	30.79	-58.85	-25.00	33.85	145	198	Horizontal
2	5164.1800	48.47	-45.31	32.97	-59.13	-25.00	34.13	122	151	Horizontal
3	7746.2700	46.00	-42.74	36.68	-55.33	-25.00	30.33	186	167	Horizontal
4	10328.3600	37.42	-39.07	38.84	-58.06	-25.00	33.06	195	259	Horizontal
5	12910.4500	33.52	-37.13	39.74	-59.13	-25.00	34.13	174	288	Horizontal
6	15492.5400	30.39	-35.23	38.58	-61.52	-25.00	36.52	169	16	Horizontal

**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = High ANTO**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.25	53.03	-45.97	30.37	-57.84	-25.00	32.84	211	196	Vertical
2	5164.1800	46.96	-45.31	32.97	-60.64	-25.00	35.64	145	334	Vertical
3	7746.2700	44.74	-42.74	36.68	-56.59	-25.00	31.59	236	91	Vertical
4	10328.3600	37.39	-39.07	38.84	-58.09	-25.00	33.09	255	227	Vertical
5	12910.4500	33.69	-37.13	39.74	-58.96	-25.00	33.96	169	136	Vertical
6	15492.5400	30.26	-35.23	38.58	-61.65	-25.00	36.65	148	360	Vertical



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**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Low ANT1**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4099.5	51.93	-45.76	30.95	-58.14	-25.00	33.14	265	358	Horizontal
2	5144.1800	47.69	-45.33	32.96	-59.94	-25.00	34.94	142	354	Horizontal
3	7716.2700	44.63	-42.98	36.62	-57.00	-25.00	32.00	199	258	Horizontal
4	10288.3600	36.87	-39.14	38.83	-58.70	-25.00	33.70	185	210	Horizontal
5	12860.4500	33.45	-37.00	39.69	-59.12	-25.00	34.12	301	60	Horizontal
6	15432.5400	31.58	-34.11	38.67	-59.12	-25.00	34.12	248	3	Horizontal

**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Low ANT1**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3675	52.16	-45.66	29.88	-58.88	-25.00	33.88	256	213	Vertical
2	5144.1800	47.59	-45.33	32.96	-60.04	-25.00	35.04	132	90	Vertical
3	7716.2700	46.38	-42.98	36.62	-55.25	-25.00	30.25	142	359	Vertical
4	10288.3600	38.86	-39.14	38.83	-56.71	-25.00	31.71	199	198	Vertical
5	12860.4500	33.16	-37.00	39.69	-59.41	-25.00	34.41	145	304	Vertical
6	15432.5400	31.80	-34.11	38.67	-58.90	-25.00	33.90	185	106	Vertical



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Test Band = 5G NR SA Band38\_ TM1
Test Channel = Mid ANT1

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Test Band = 5G NR SA Band38\_ TM1
Test Channel = Mid ANT1

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.



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Test Band = 5G NR SA Band38\_ TM1  
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4245.75	51.64	-45.66	31.19	-58.09	-25.00	33.09	246	74	Horizontal
2	5164.1800	47.07	-45.31	32.97	-60.53	-25.00	35.53	129	122	Horizontal
3	7746.2700	45.71	-42.74	36.68	-55.62	-25.00	30.62	184	243	Horizontal
4	10328.3600	39.48	-39.07	38.84	-56.00	-25.00	31.00	142	347	Horizontal
5	12910.4500	32.99	-37.13	39.74	-59.66	-25.00	34.66	163	122	Horizontal
6	15492.5400	31.57	-35.23	38.58	-60.34	-25.00	35.34	288	30	Horizontal

Test Band = 5G NR SA Band38\_ TM1  
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3623.25	52.64	-45.98	29.69	-58.91	-25.00	33.91	216	336	Vertical
2	5164.1800	46.73	-45.31	32.97	-60.87	-25.00	35.87	142	230	Vertical
3	7746.2700	44.64	-42.74	36.68	-56.69	-25.00	31.69	188	91	Vertical
4	10328.3600	37.99	-39.07	38.84	-57.49	-25.00	32.49	156	182	Vertical
5	12910.4500	33.50	-37.13	39.74	-59.15	-25.00	34.15	192	319	Vertical
6	15492.5400	30.25	-35.23	38.58	-61.66	-25.00	36.66	147	213	Vertical



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**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Low ANT2**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3476.25	52.40	-46.26	29.50	-59.63	-25.00	34.63	111	290	Horizontal
2	5144.1800	47.48	-45.33	32.96	-60.15	-25.00	35.15	265	183	Horizontal
3	7716.2700	44.50	-42.98	36.62	-57.13	-25.00	32.13	145	74	Horizontal
4	10288.3600	36.84	-39.14	38.83	-58.73	-25.00	33.73	123	360	Horizontal
5	12860.4500	35.32	-37.00	39.69	-57.25	-25.00	32.25	203	166	Horizontal
6	15432.5400	31.50	-34.11	38.67	-59.20	-25.00	34.20	264	360	Horizontal

**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Low ANT2**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3520.5	52.29	-46.23	29.54	-59.66	-25.00	34.66	198	135	Vertical
2	5144.1800	47.64	-45.33	32.96	-59.99	-25.00	34.99	145	135	Vertical
3	7716.2700	44.98	-42.98	36.62	-56.65	-25.00	31.65	261	358	Vertical
4	10288.3600	39.02	-39.14	38.83	-56.55	-25.00	31.55	135	359	Vertical
5	12860.4500	33.65	-37.00	39.69	-58.92	-25.00	33.92	148	3	Vertical
6	15432.5400	31.90	-34.11	38.67	-58.80	-25.00	33.80	195	182	Vertical



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Test Band = 5G NR SA Band38\_ TM1  
Test Channel = Mid ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3667.5	52.14	-45.70	29.85	-58.97	-25.00	33.97	245	228	Horizontal
2	5154.1800	47.48	-45.32	32.97	-60.14	-25.00	35.14	126	290	Horizontal
3	7731.2700	44.67	-42.86	36.65	-56.81	-25.00	31.81	185	359	Horizontal
4	10308.3600	36.81	-39.08	38.84	-58.70	-25.00	33.70	142	74	Horizontal
5	12885.4500	34.23	-37.07	39.72	-58.38	-25.00	33.38	169	121	Horizontal
6	15462.5400	32.64	-34.67	38.63	-58.66	-25.00	33.66	177	14	Horizontal

Test Band = 5G NR SA Band38\_ TM1  
Test Channel = Mid ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4290	52.05	-45.56	31.28	-57.49	-25.00	32.49	215	44	Vertical
2	5154.1800	47.29	-45.32	32.97	-60.33	-25.00	35.33	169	184	Vertical
3	7731.2700	44.53	-42.86	36.65	-56.95	-25.00	31.95	142	4	Vertical
4	10308.3600	36.78	-39.08	38.84	-58.73	-25.00	33.73	188	320	Vertical
5	12885.4500	33.16	-37.07	39.72	-59.45	-25.00	34.45	120	335	Vertical
6	15462.5400	32.28	-34.67	38.63	-59.02	-25.00	34.02	153	355	Vertical



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**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = High ANT2**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3991.5	51.56	-46.06	30.78	-58.98	-25.00	33.98	215	91	Horizontal
2	5164.1800	47.00	-45.31	32.97	-60.60	-25.00	35.60	199	106	Horizontal
3	7746.2700	46.03	-42.74	36.68	-55.30	-25.00	30.30	184	259	Horizontal
4	10328.3600	37.72	-39.07	38.84	-57.76	-25.00	32.76	175	347	Horizontal
5	12910.4500	34.21	-37.13	39.74	-58.44	-25.00	33.44	261	4	Horizontal
6	15492.5400	30.46	-35.23	38.58	-61.45	-25.00	36.45	133	335	Horizontal

**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = High ANT2**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3774	51.56	-45.81	30.24	-59.27	-25.00	34.27	216	197	Vertical
2	5164.1800	47.51	-45.31	32.97	-60.09	-25.00	35.09	155	91	Vertical
3	7746.2700	45.01	-42.74	36.68	-56.32	-25.00	31.32	142	360	Vertical
4	10328.3600	38.17	-39.07	38.84	-57.31	-25.00	32.31	166	358	Vertical
5	12910.4500	34.30	-37.13	39.74	-58.35	-25.00	33.35	188	360	Vertical
6	15492.5400	30.69	-35.23	38.58	-61.22	-25.00	36.22	192	354	Vertical



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**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Low ANT3**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3677.25	51.52	-45.64	29.89	-59.50	-25.00	34.50	216	304	Horizontal
2	5144.1800	49.03	-45.33	32.96	-58.60	-25.00	33.60	142	121	Horizontal
3	7716.2700	45.03	-42.98	36.62	-56.60	-25.00	31.60	132	289	Horizontal
4	10288.3600	37.16	-39.14	38.83	-58.41	-25.00	33.41	166	44	Horizontal
5	12860.4500	33.70	-37.00	39.69	-58.87	-25.00	33.87	192	166	Horizontal
6	15432.5400	30.90	-34.11	38.67	-59.80	-25.00	34.80	170	152	Horizontal

**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Low ANT3**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4083.75	51.58	-45.81	30.93	-58.56	-25.00	33.56	214	360	Vertical
2	5144.1800	46.90	-45.33	32.96	-60.73	-25.00	35.73	186	302	Vertical
3	7716.2700	44.57	-42.98	36.62	-57.06	-25.00	32.06	152	30	Vertical
4	10288.3600	37.87	-39.14	38.83	-57.70	-25.00	32.70	199	359	Vertical
5	12860.4500	33.44	-37.00	39.69	-59.13	-25.00	34.13	145	271	Vertical
6	15432.5400	31.71	-34.11	38.67	-58.99	-25.00	33.99	180	136	Vertical



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**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Mid ANT3**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3768.75	51.94	-45.79	30.22	-58.89	-25.00	33.89	215	182	Horizontal
2	5154.1800	47.00	-45.32	32.97	-60.62	-25.00	35.62	145	288	Horizontal
3	7731.2700	44.59	-42.86	36.65	-56.89	-25.00	31.89	162	16	Horizontal
4	10308.3600	37.34	-39.08	38.84	-58.17	-25.00	33.17	288	16	Horizontal
5	12885.4500	33.83	-37.07	39.72	-58.78	-25.00	33.78	149	31	Horizontal
6	15462.5400	32.55	-34.67	38.63	-58.75	-25.00	33.75	130	151	Horizontal

**Test Band = 5G NR SA Band38\_ TM1**  
**Test Channel = Mid ANT3**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3790.5	51.35	-45.88	30.30	-59.49	-25.00	34.49	251	212	Vertical
2	5154.1800	46.94	-45.32	32.97	-60.68	-25.00	35.68	148	273	Vertical
3	7731.2700	44.91	-42.86	36.65	-56.57	-25.00	31.57	159	359	Vertical
4	10308.3600	36.62	-39.08	38.84	-58.89	-25.00	33.89	162	354	Vertical
5	12885.4500	33.03	-37.07	39.72	-59.58	-25.00	34.58	170	358	Vertical
6	15462.5400	31.34	-34.67	38.63	-59.96	-25.00	34.96	137	360	Vertical



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Test Band = 5G NR SA Band38\_ TM1
Test Channel = High ANT3

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Test Band = 5G NR SA Band38\_ TM1
Test Channel = High ANT3

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.



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Test Band = 5G NR NSA 66A-N38A\_ TM1
Test Channel = Low ANT0 WORSE

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Test Band = 5G NR NSA 66A-N38A\_ TM1
Test Channel = Low ANT0 WORSE

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.



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**Test Band = 5G NR NSA 66A-N38A\_ TM1**  
**Test Channel = Mid ANT0 WORSE**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5154.1800	46.94	-45.32	32.97	-60.68	-25.00	35.68	255	14	Horizontal
2	5832.75	50.89	-44.82	33.81	-55.38	-25.00	30.38	146	331	Horizontal
3	7731.2700	45.18	-42.86	36.65	-56.30	-25.00	31.30	191	300	Horizontal
4	10308.3600	36.83	-39.08	38.84	-58.68	-25.00	33.68	174	151	Horizontal
5	12885.4500	33.76	-37.07	39.72	-58.85	-25.00	33.85	196	353	Horizontal
6	15462.5400	32.57	-34.67	38.63	-58.73	-25.00	33.73	180	74	Horizontal

**Test Band = 5G NR NSA 66A-N38A\_ TM1**  
**Test Channel = Mid ANT0 WORSE**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3693.75	51.56	-45.54	29.95	-59.29	-25.00	34.29	263	4	Vertical
2	5154.1800	47.89	-45.32	32.97	-59.73	-25.00	34.73	215	164	Vertical
3	7731.2700	44.27	-42.86	36.65	-57.21	-25.00	32.21	142	74	Vertical
4	10308.3600	36.79	-39.08	38.84	-58.72	-25.00	33.72	183	240	Vertical
5	12885.4500	33.77	-37.07	39.72	-58.84	-25.00	33.84	142	344	Vertical
6	15462.5400	31.18	-34.67	38.63	-60.12	-25.00	35.12	139	29	Vertical



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**Test Band = 5G NR NSA 66A-N38A\_ TM1**  
**Test Channel = High ANT0 WORSE**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3786	50.69	-45.86	30.28	-60.15	-25.00	35.15	255	360	Horizontal
2	5164.1800	46.90	-45.31	32.97	-60.70	-25.00	35.70	146	16	Horizontal
3	7746.2700	44.28	-42.74	36.68	-57.05	-25.00	32.05	291	358	Horizontal
4	10328.3600	37.70	-39.07	38.84	-57.78	-25.00	32.78	142	166	Horizontal
5	12910.4500	34.13	-37.13	39.74	-58.52	-25.00	33.52	184	180	Horizontal
6	15492.5400	31.08	-35.23	38.58	-60.83	-25.00	35.83	173	152	Horizontal

**Test Band = 5G NR NSA 66A-N38A\_ TM1**  
**Test Channel = High ANT0 WORSE**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3660.75	52.15	-45.75	29.83	-59.03	-25.00	34.03	255	360	Vertical
2	5164.1800	47.04	-45.31	32.97	-60.56	-25.00	35.56	142	29	Vertical
3	7746.2700	46.13	-42.74	36.68	-55.20	-25.00	30.20	123	74	Vertical
4	10328.3600	36.91	-39.07	38.84	-58.57	-25.00	33.57	269	354	Vertical
5	12910.4500	33.36	-37.13	39.74	-59.29	-25.00	34.29	291	179	Vertical
6	15492.5400	31.72	-35.23	38.58	-60.19	-25.00	35.19	140	360	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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### Frequency Stability for SA

#### Test Result

#### Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.000000	-0.000771	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.400000	-0.000154	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	3.100000	0.001195	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VH	NT	1.600000	0.000617	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VN	NT	-0.400000	-0.000154	PASS
N38	30	40	CP-QPSK	M	Outer_Full	VL	NT	1.100000	0.000424	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.500000	-0.000963	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.200000	0.003160	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-0.600000	-0.000231	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.600000	-0.001002	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	1.200000	0.000462	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	1.800000	0.000694	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	7.800000	0.003006	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.500000	-0.000193	PASS
N38	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	2.500000	0.000963	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-30	-1.600000	-0.000617	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-20	0.500000	0.000193	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	-10	-0.500000	-0.000193	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	0	6.900000	0.002659	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	10	6.300000	0.002428	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	20	5.600000	0.002158	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	30	-1.400000	-0.000539	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	40	-1.100000	-0.000424	PASS
N38	30	40	CP-QPSK	M	Outer_Full	NV	50	-2.300000	-0.000886	PASS

---End of Attachment---



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