



Report No.: SEWM2308000313RG02

Rev.: 01

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# Appendix B.24

## NR Band n66



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

### Test Result

#### ANT3

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N66	15	5	DFT-QPSK	L	Inner_1RB_Left	24.13	23.03	30.00	PASS
N66	15	5	DFT-16QAM	L	Inner_1RB_Left	22.79	21.69	30.00	PASS
N66	15	5	DFT-QPSK	M	Inner_1RB_Left	23.96	22.86	30.00	PASS
N66	15	5	DFT-16QAM	M	Inner_1RB_Left	22.58	21.48	30.00	PASS
N66	15	5	DFT-QPSK	H	Inner_1RB_Left	23.79	22.69	30.00	PASS
N66	15	5	DFT-16QAM	H	Inner_1RB_Left	22.59	21.49	30.00	PASS
N66	15	10	DFT-QPSK	L	Inner_1RB_Left	24.13	23.03	30.00	PASS
N66	15	10	DFT-16QAM	L	Inner_1RB_Left	22.75	21.65	30.00	PASS
N66	15	10	DFT-QPSK	M	Inner_1RB_Left	24.04	22.94	30.00	PASS
N66	15	10	DFT-16QAM	M	Inner_1RB_Left	22.52	21.42	30.00	PASS
N66	15	10	DFT-QPSK	H	Inner_1RB_Left	23.77	22.67	30.00	PASS
N66	15	10	DFT-16QAM	H	Inner_1RB_Left	22.51	21.41	30.00	PASS
N66	15	15	DFT-QPSK	L	Inner_1RB_Left	24.26	23.16	30.00	PASS
N66	15	15	DFT-16QAM	L	Inner_1RB_Left	22.77	21.67	30.00	PASS
N66	15	15	DFT-QPSK	M	Inner_1RB_Left	23.96	22.86	30.00	PASS
N66	15	15	DFT-16QAM	M	Inner_1RB_Left	22.54	21.44	30.00	PASS
N66	15	15	DFT-QPSK	H	Inner_1RB_Left	23.80	22.70	30.00	PASS
N66	15	15	DFT-16QAM	H	Inner_1RB_Left	22.53	21.43	30.00	PASS
N66	15	20	DFT-QPSK	L	Inner_1RB_Left	24.23	23.13	30.00	PASS
N66	15	20	DFT-16QAM	L	Inner_1RB_Left	22.71	21.61	30.00	PASS
N66	15	20	DFT-QPSK	M	Inner_1RB_Left	23.99	22.89	30.00	PASS
N66	15	20	DFT-16QAM	M	Inner_1RB_Left	22.65	21.55	30.00	PASS
N66	15	20	DFT-QPSK	H	Inner_1RB_Left	23.73	22.63	30.00	PASS
N66	15	20	DFT-16QAM	H	Inner_1RB_Left	22.57	21.47	30.00	PASS
N66	15	25	DFT-QPSK	L	Inner_1RB_Left	24.07	22.97	30.00	PASS
N66	15	25	DFT-16QAM	L	Inner_1RB_Left	22.75	21.65	30.00	PASS
N66	15	25	DFT-QPSK	M	Inner_1RB_Left	23.76	22.66	30.00	PASS
N66	15	25	DFT-16QAM	M	Inner_1RB_Left	22.50	21.40	30.00	PASS



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N66	15	25	DFT-QPSK	H	Inner_1RB_Left	23.51	22.41	30.00	PASS
N66	15	25	DFT-16QAM	H	Inner_1RB_Left	22.41	21.31	30.00	PASS
N66	15	30	DFT-QPSK	L	Inner_1RB_Left	24.18	23.08	30.00	PASS
N66	15	30	DFT-16QAM	L	Inner_1RB_Left	22.65	21.55	30.00	PASS
N66	15	30	DFT-QPSK	M	Inner_1RB_Left	23.96	22.86	30.00	PASS
N66	15	30	DFT-16QAM	M	Inner_1RB_Left	22.49	21.39	30.00	PASS
N66	15	30	DFT-QPSK	H	Inner_1RB_Left	23.59	22.49	30.00	PASS
N66	15	30	DFT-16QAM	H	Inner_1RB_Left	22.36	21.26	30.00	PASS
N66	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.76	22.66	30.00	PASS
N66	15	40	DFT-PI2BPSK	L	Inner_1RB_Right	23.74	22.64	30.00	PASS
N66	15	40	DFT-PI2BPSK	L	Outer_Full	23.31	22.21	30.00	PASS
N66	15	40	DFT-QPSK	L	Inner_1RB_Left	24.21	23.11	30.00	PASS
N66	15	40	DFT-QPSK	L	Inner_1RB_Right	23.95	22.85	30.00	PASS
N66	15	40	DFT-QPSK	L	Outer_Full	22.87	21.77	30.00	PASS
N66	15	40	DFT-16QAM	L	Inner_1RB_Left	22.72	21.62	30.00	PASS
N66	15	40	DFT-16QAM	L	Inner_1RB_Right	22.79	21.69	30.00	PASS
N66	15	40	DFT-16QAM	L	Outer_Full	22.56	21.46	30.00	PASS
N66	15	40	DFT-64QAM	L	Inner_1RB_Left	21.48	20.38	30.00	PASS
N66	15	40	DFT-64QAM	L	Inner_1RB_Right	21.39	20.29	30.00	PASS
N66	15	40	DFT-64QAM	L	Outer_Full	21.50	20.40	30.00	PASS
N66	15	40	DFT-256QAM	L	Inner_1RB_Left	19.45	18.35	30.00	PASS
N66	15	40	DFT-256QAM	L	Inner_1RB_Right	19.15	18.05	30.00	PASS
N66	15	40	DFT-256QAM	L	Outer_Full	19.53	18.43	30.00	PASS
N66	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	23.53	22.43	30.00	PASS
N66	15	40	DFT-PI2BPSK	M	Inner_1RB_Right	23.55	22.45	30.00	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	23.12	22.02	30.00	PASS
N66	15	40	DFT-QPSK	M	Inner_1RB_Left	23.88	22.78	30.00	PASS
N66	15	40	DFT-QPSK	M	Inner_1RB_Right	24.04	22.94	30.00	PASS
N66	15	40	DFT-QPSK	M	Outer_Full	22.60	21.50	30.00	PASS
N66	15	40	DFT-16QAM	M	Inner_1RB_Left	22.63	21.53	30.00	PASS
N66	15	40	DFT-16QAM	M	Inner_1RB_Right	22.53	21.43	30.00	PASS
N66	15	40	DFT-16QAM	M	Outer_Full	21.22	20.12	30.00	PASS
N66	15	40	DFT-64QAM	M	Inner_1RB_Left	21.47	20.37	30.00	PASS
N66	15	40	DFT-64QAM	M	Inner_1RB_Right	21.23	20.13	30.00	PASS
N66	15	40	DFT-64QAM	M	Outer_Full	21.32	20.22	30.00	PASS
N66	15	40	DFT-256QAM	M	Inner_1RB_Left	19.21	18.11	30.00	PASS
N66	15	40	DFT-256QAM	M	Inner_1RB_Right	19.29	18.19	30.00	PASS



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N66	15	40	DFT-256QAM	M	Outer_Full	19.15	18.05	30.00	PASS
N66	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	23.74	22.64	30.00	PASS
N66	15	40	DFT-PI2BPSK	H	Inner_1RB_Right	23.59	22.49	30.00	PASS
N66	15	40	DFT-PI2BPSK	H	Outer_Full	23.28	22.18	30.00	PASS
N66	15	40	DFT-QPSK	H	Inner_1RB_Left	23.89	22.79	30.00	PASS
N66	15	40	DFT-QPSK	H	Inner_1RB_Right	24.04	22.94	30.00	PASS
N66	15	40	DFT-QPSK	H	Outer_Full	22.63	21.53	30.00	PASS
N66	15	40	DFT-16QAM	H	Inner_1RB_Left	22.43	21.33	30.00	PASS
N66	15	40	DFT-16QAM	H	Inner_1RB_Right	22.56	21.46	30.00	PASS
N66	15	40	DFT-16QAM	H	Outer_Full	21.05	19.95	30.00	PASS
N66	15	40	DFT-64QAM	H	Inner_1RB_Left	21.47	20.37	30.00	PASS
N66	15	40	DFT-64QAM	H	Inner_1RB_Right	21.31	20.21	30.00	PASS
N66	15	40	DFT-64QAM	H	Outer_Full	21.24	20.14	30.00	PASS
N66	15	40	DFT-256QAM	H	Inner_1RB_Left	19.21	18.11	30.00	PASS
N66	15	40	DFT-256QAM	H	Inner_1RB_Right	19.31	18.21	30.00	PASS
N66	15	40	DFT-256QAM	H	Outer_Full	19.03	17.93	30.00	PASS



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## Peak-to-Average Ratio for SA

### Test Result

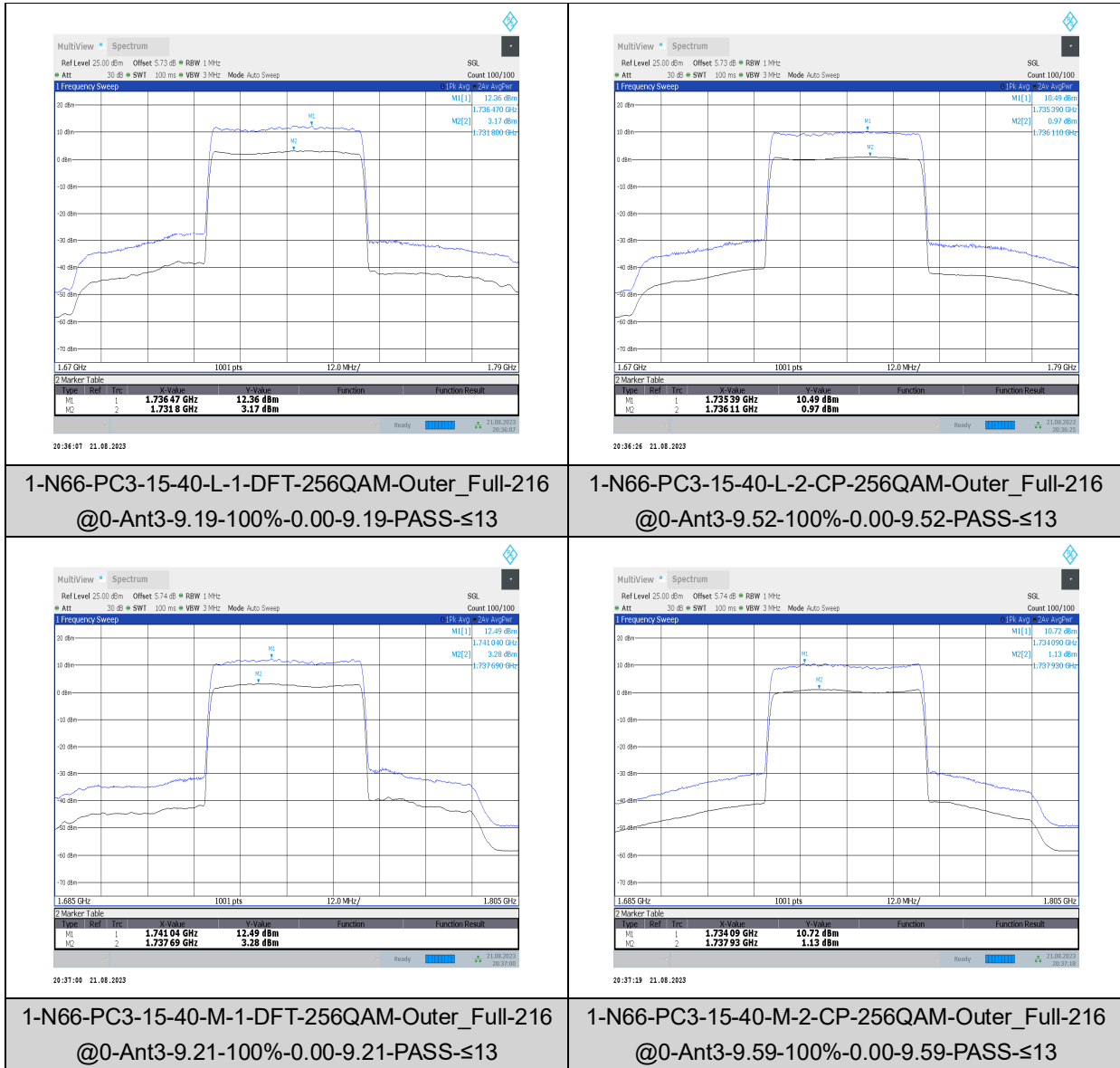
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N66	15	40	DFT-256QAM	L	Outer_Full	9.19	≤13	PASS
N66	15	40	CP-256QAM	L	Outer_Full	9.52	≤13	PASS
N66	15	40	DFT-256QAM	M	Outer_Full	9.21	≤13	PASS
N66	15	40	CP-256QAM	M	Outer_Full	9.59	≤13	PASS
N66	15	40	DFT-256QAM	H	Outer_Full	9.27	≤13	PASS
N66	15	40	CP-256QAM	H	Outer_Full	9.51	≤13	PASS



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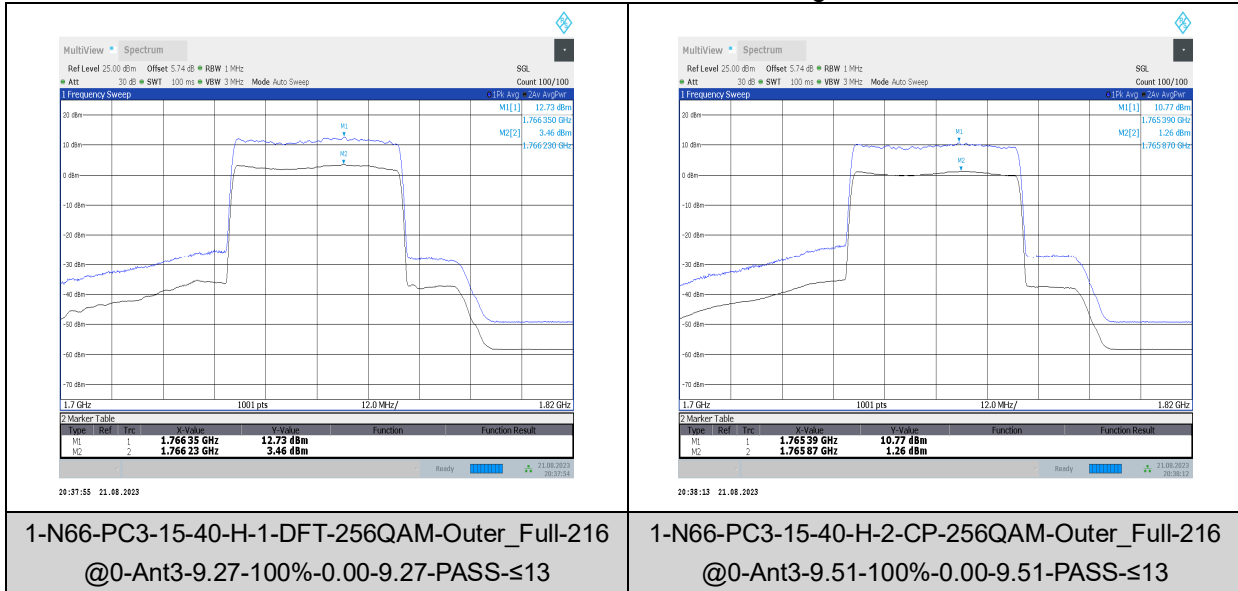
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Test Graphs



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1-N66-PC3-15-40-H-1-DFT-256QAM-Outer\_Full-216  
@0-Ant3-9.27-100%-0.00-9.27-PASS-≤13

1-N66-PC3-15-40-H-2-CP-256QAM-Outer\_Full-216  
@0-Ant3-9.51-100%-0.00-9.51-PASS-≤13



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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
N66	15	5	DFT-QPSK	M	Outer_Full	4.47	4.790	PASS
N66	15	5	DFT-PI2BPSK	M	Outer_Full	4.464	4.810	PASS
N66	15	5	DFT-16QAM	M	Outer_Full	4.452	4.770	PASS
N66	15	5	DFT-64QAM	M	Outer_Full	4.465	4.820	PASS
N66	15	5	DFT-256QAM	M	Outer_Full	4.455	4.780	PASS
N66	15	5	CP-QPSK	M	Outer_Full	4.464	4.780	PASS
N66	15	5	CP-16QAM	M	Outer_Full	4.471	4.790	PASS
N66	15	5	CP-64QAM	M	Outer_Full	4.447	4.730	PASS
N66	15	5	CP-256QAM	M	Outer_Full	4.463	4.770	PASS
N66	15	10	DFT-QPSK	M	Outer_Full	8.919	9.400	PASS
N66	15	10	DFT-PI2BPSK	M	Outer_Full	8.93	9.340	PASS
N66	15	10	DFT-16QAM	M	Outer_Full	8.917	9.380	PASS
N66	15	10	DFT-64QAM	M	Outer_Full	8.915	9.360	PASS
N66	15	10	DFT-256QAM	M	Outer_Full	8.922	9.380	PASS
N66	15	10	CP-QPSK	M	Outer_Full	9.288	9.760	PASS
N66	15	10	CP-16QAM	M	Outer_Full	9.297	9.780	PASS
N66	15	10	CP-64QAM	M	Outer_Full	9.307	9.760	PASS
N66	15	10	CP-256QAM	M	Outer_Full	9.283	9.760	PASS
N66	15	15	DFT-QPSK	M	Outer_Full	13.408	14.160	PASS
N66	15	15	DFT-PI2BPSK	M	Outer_Full	13.42	14.100	PASS
N66	15	15	DFT-16QAM	M	Outer_Full	13.432	14.100	PASS
N66	15	15	DFT-64QAM	M	Outer_Full	13.425	14.100	PASS
N66	15	15	DFT-256QAM	M	Outer_Full	13.413	14.040	PASS
N66	15	15	CP-QPSK	M	Outer_Full	14.099	14.820	PASS
N66	15	15	CP-16QAM	M	Outer_Full	14.131	14.880	PASS
N66	15	15	CP-64QAM	M	Outer_Full	14.112	14.850	PASS
N66	15	15	CP-256QAM	M	Outer_Full	14.107	14.790	PASS
N66	15	20	DFT-QPSK	M	Outer_Full	17.865	18.720	PASS
N66	15	20	DFT-PI2BPSK	M	Outer_Full	17.892	18.680	PASS



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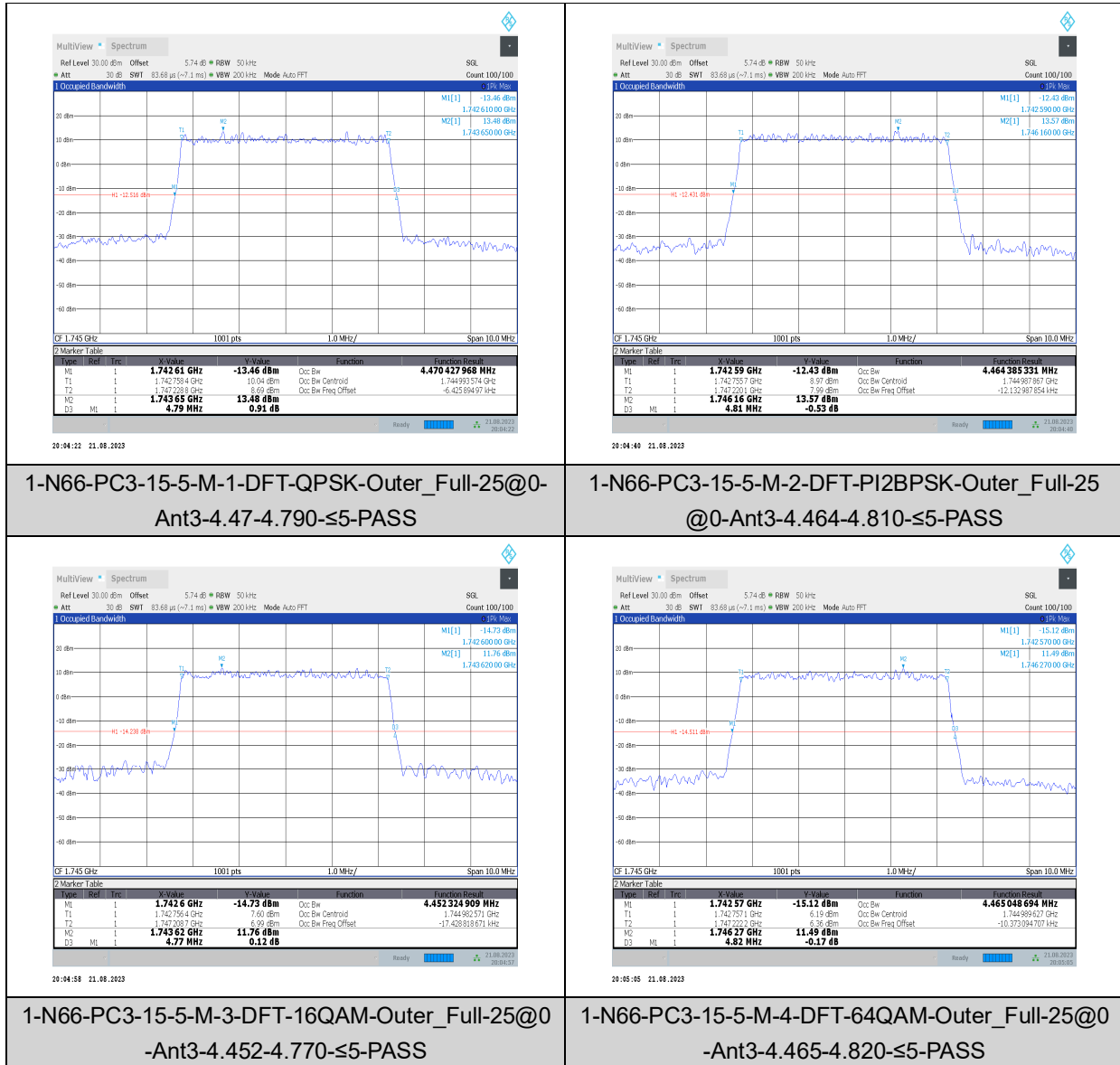


N66	15	20	DFT-16QAM	M	Outer_Full	17.872	18.520	PASS
N66	15	20	DFT-64QAM	M	Outer_Full	17.878	18.640	PASS
N66	15	20	DFT-256QAM	M	Outer_Full	17.867	18.520	PASS
N66	15	20	CP-QPSK	M	Outer_Full	18.92	19.720	PASS
N66	15	20	CP-16QAM	M	Outer_Full	18.96	19.680	PASS
N66	15	20	CP-64QAM	M	Outer_Full	18.913	19.720	PASS
N66	15	20	CP-256QAM	M	Outer_Full	18.925	19.600	PASS
N66	15	25	DFT-QPSK	M	Outer_Full	22.891	23.950	PASS
N66	15	25	DFT-PI2BPSK	M	Outer_Full	22.864	23.800	PASS
N66	15	25	DFT-16QAM	M	Outer_Full	22.887	23.850	PASS
N66	15	25	DFT-64QAM	M	Outer_Full	22.87	23.800	PASS
N66	15	25	DFT-256QAM	M	Outer_Full	22.853	23.850	PASS
N66	15	25	CP-QPSK	M	Outer_Full	23.765	24.700	PASS
N66	15	25	CP-16QAM	M	Outer_Full	23.724	24.800	PASS
N66	15	25	CP-64QAM	M	Outer_Full	23.783	24.750	PASS
N66	15	25	CP-256QAM	M	Outer_Full	23.734	24.700	PASS
N66	15	30	DFT-QPSK	M	Outer_Full	28.611	29.580	PASS
N66	15	30	DFT-PI2BPSK	M	Outer_Full	28.573	29.760	PASS
N66	15	30	DFT-16QAM	M	Outer_Full	28.568	29.760	PASS
N66	15	30	DFT-64QAM	M	Outer_Full	28.541	29.640	PASS
N66	15	30	DFT-256QAM	M	Outer_Full	28.522	29.640	PASS
N66	15	30	CP-QPSK	M	Outer_Full	28.5	29.640	PASS
N66	15	30	CP-16QAM	M	Outer_Full	28.641	29.700	PASS
N66	15	30	CP-64QAM	M	Outer_Full	28.595	29.820	PASS
N66	15	30	CP-256QAM	M	Outer_Full	28.583	29.760	PASS
N66	15	40	DFT-QPSK	M	Outer_Full	38.566	40.160	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	38.634	40.160	PASS
N66	15	40	DFT-16QAM	M	Outer_Full	38.515	40.320	PASS
N66	15	40	DFT-64QAM	M	Outer_Full	38.556	40.240	PASS
N66	15	40	DFT-256QAM	M	Outer_Full	38.561	40.240	PASS
N66	15	40	CP-QPSK	M	Outer_Full	38.526	40.160	PASS
N66	15	40	CP-16QAM	M	Outer_Full	38.577	40.160	PASS
N66	15	40	CP-64QAM	M	Outer_Full	38.605	40.240	PASS
N66	15	40	CP-256QAM	M	Outer_Full	38.518	40.240	PASS



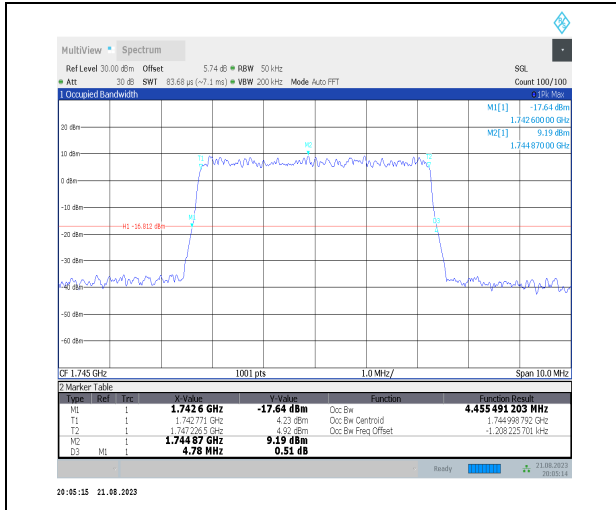
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Test Graphs

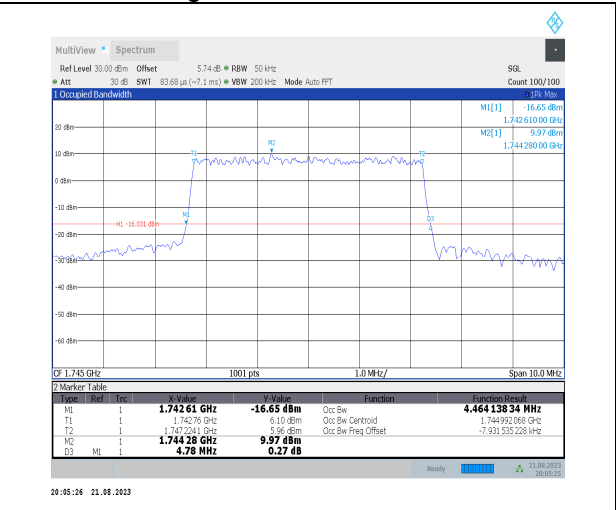


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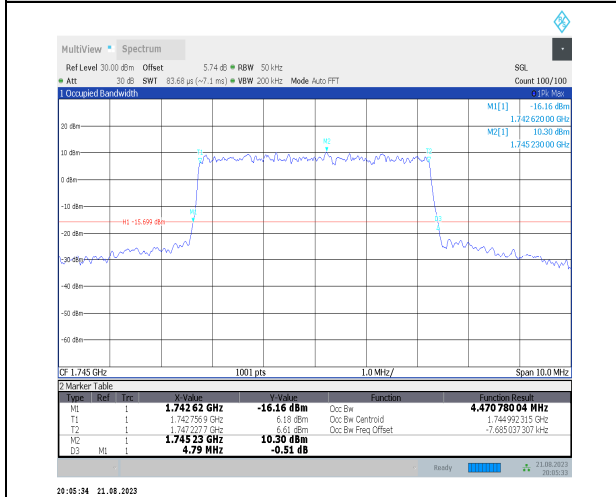
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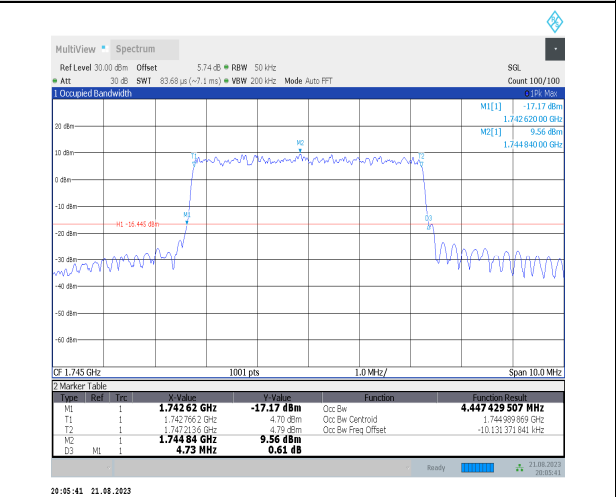
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1-N66-PC3-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant3-4.464-4.780-≤5-PASS



1-N66-PC3-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant3-4.471-4.790-≤5-PASS

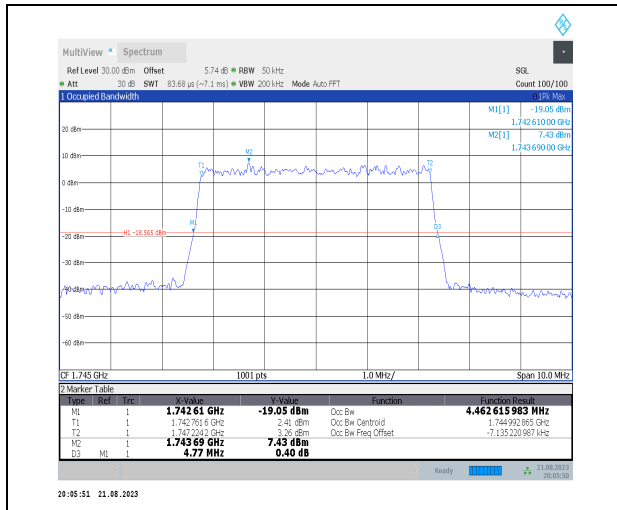


1-N66-PC3-15-5-M-8-CP-64QAM-Outer\_Full-25@0-Ant3-4.447-4.730-≤5-PASS

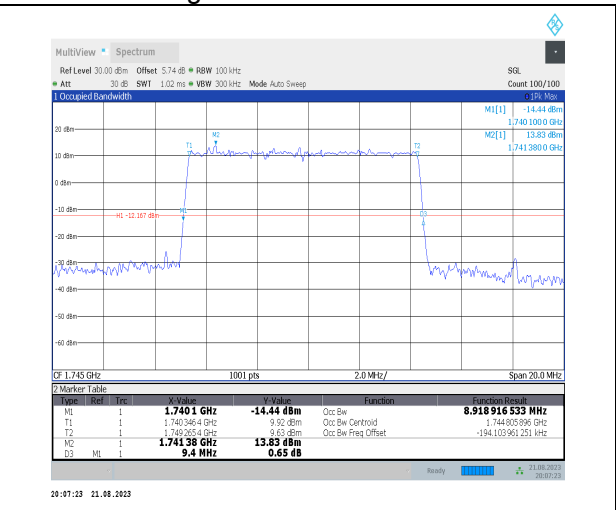


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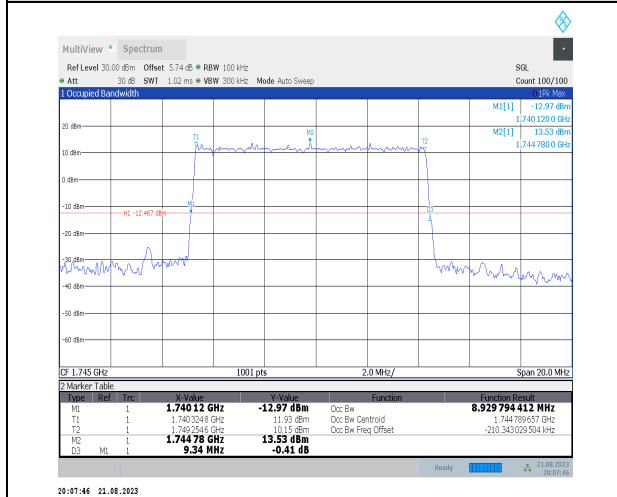
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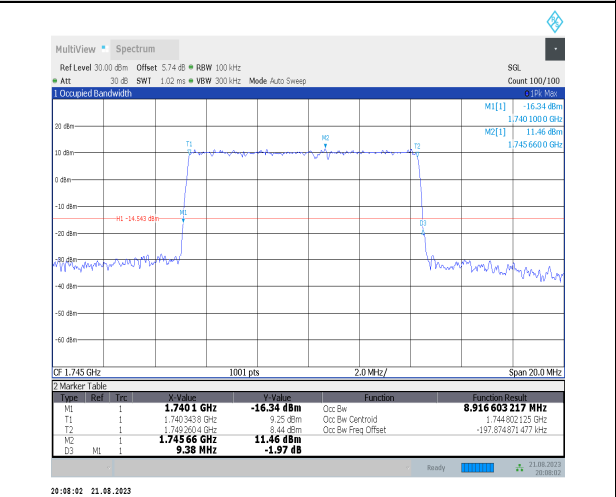
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-Ant3-4.463-4.770-<=5-PASS



1-N66-PC3-15-10-M-1-DFT-QPSK-Outer\_Full-50@0  
-Ant3-8.919-9.400-<=10-PASS



1-N66-PC3-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50  
@0-Ant3-8.913-9.340-<=10-PASS

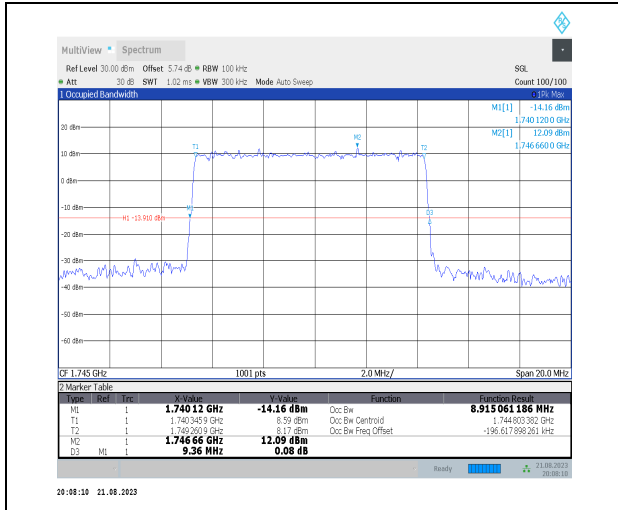


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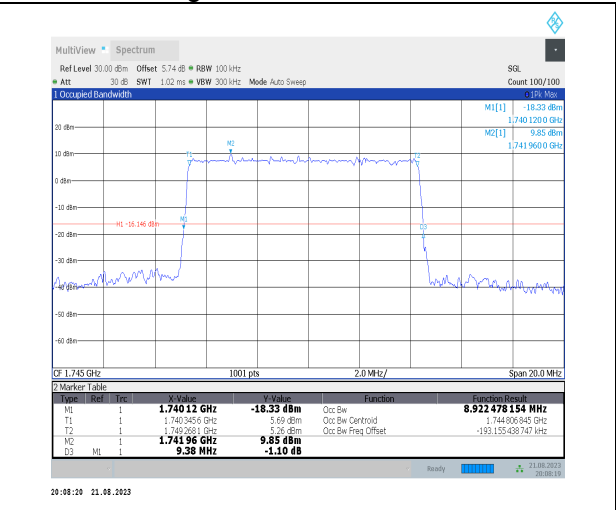


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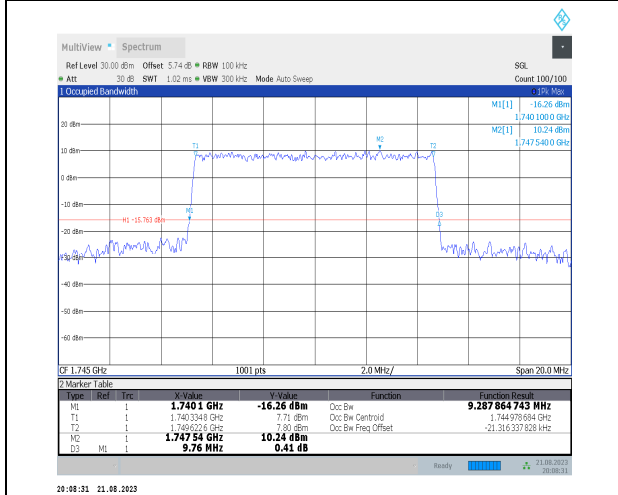
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1-N66-PC3-15-10-M-4-DFT-64QAM-Outer\_Full-50@  
0-Ant3-8.915-9.360-≤10-PASS



1-N66-PC3-15-10-M-5-DFT-256QAM-Outer\_Full-50  
@0-Ant3-8.922-9.380-≤10-PASS



1-N66-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-  
Ant3-9.288-9.760-≤10-PASS

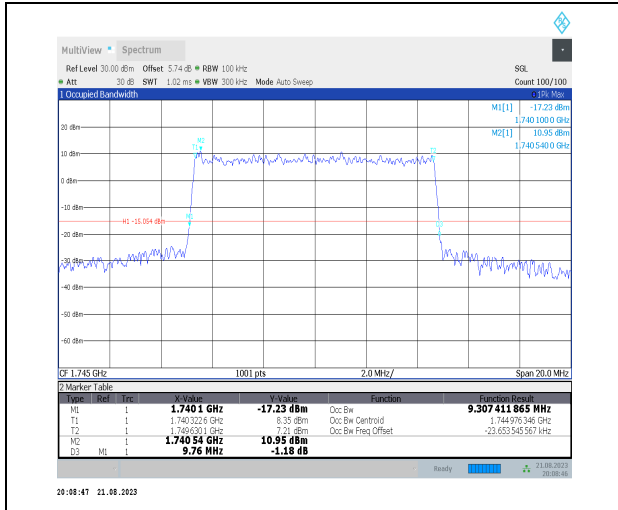


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-Ant3-9.297-9.780-≤10-PASS

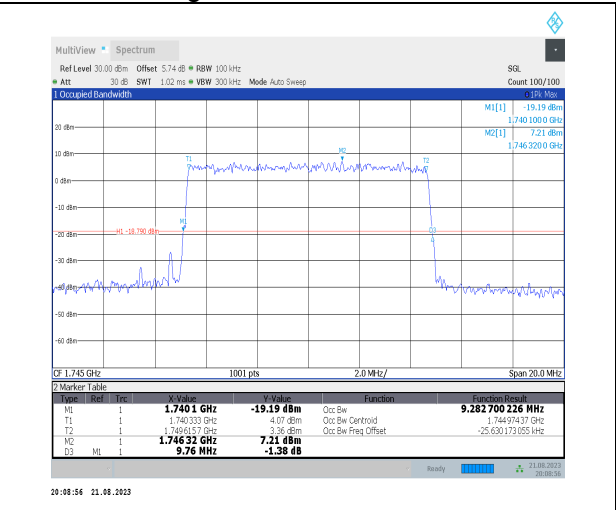


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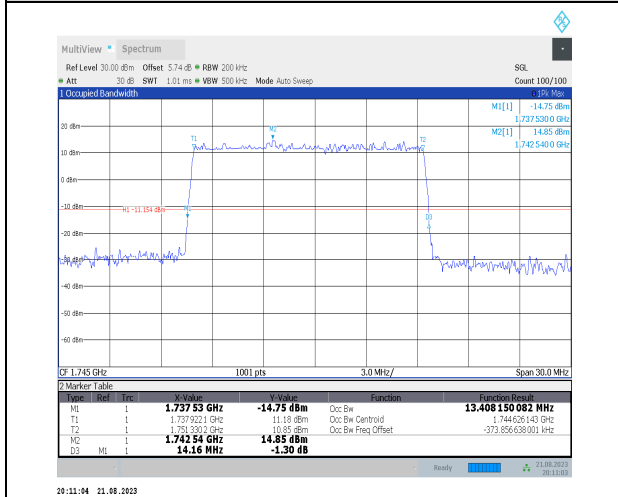
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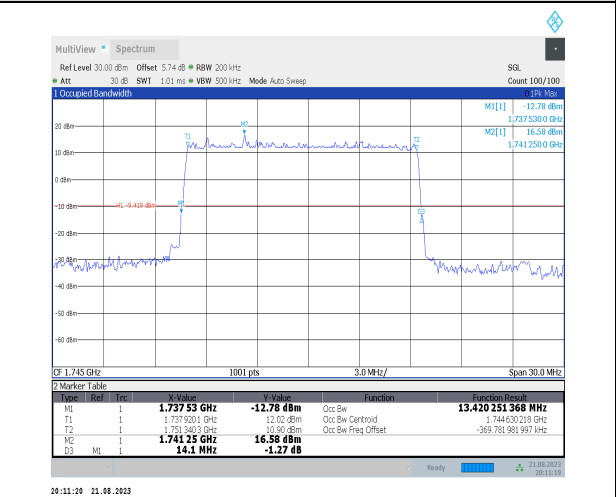
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1-N66-PC3-15-10-M-9-CP-256QAM-Outer\_Full-52@0-Ant3-9.283-9.760-≤10-PASS



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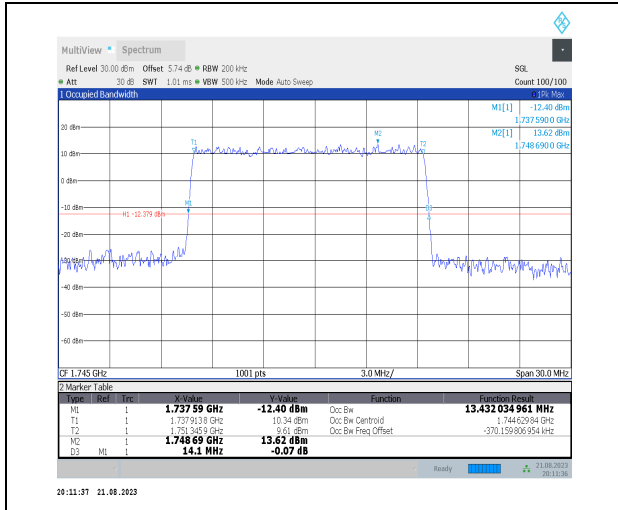


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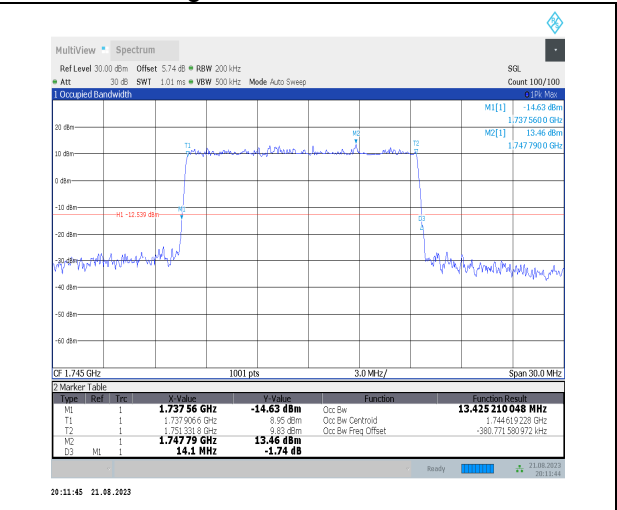


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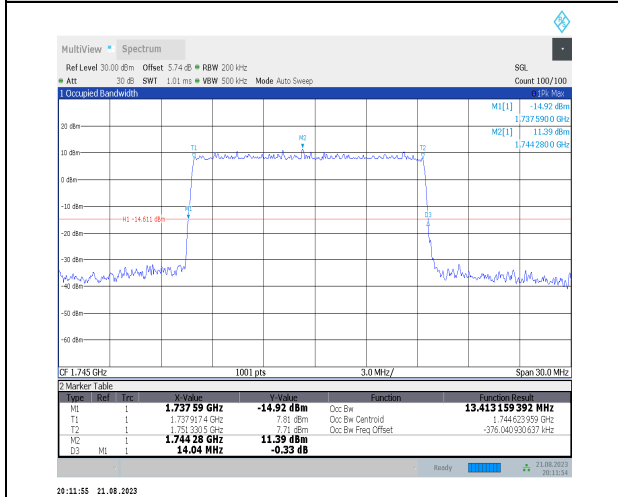
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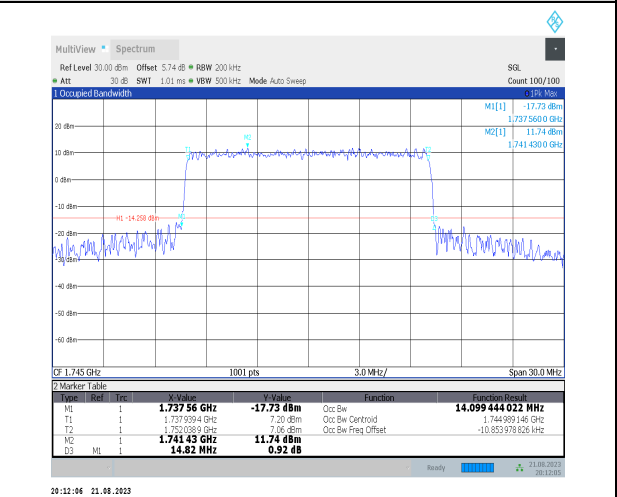
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1-N66-PC3-15-15-M-4-DFT-64QAM-Outer\_Full-75@  
0-Ant3-13.425-14.100≤15-PASS



1-N66-PC3-15-15-M-5-DFT-256QAM-Outer\_Full-75@  
0-Ant3-13.413-14.040≤15-PASS

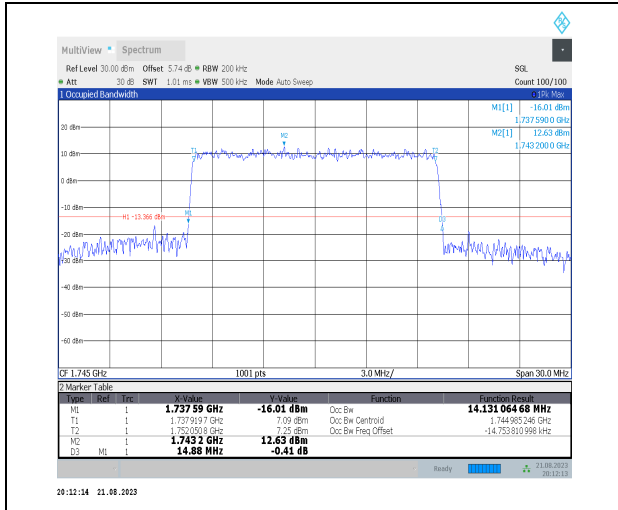


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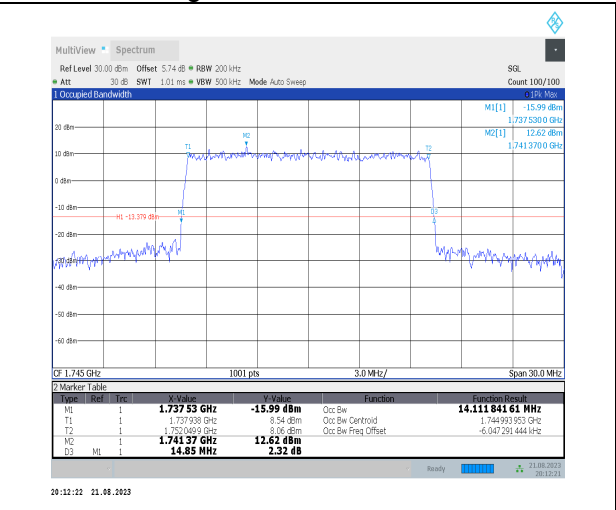


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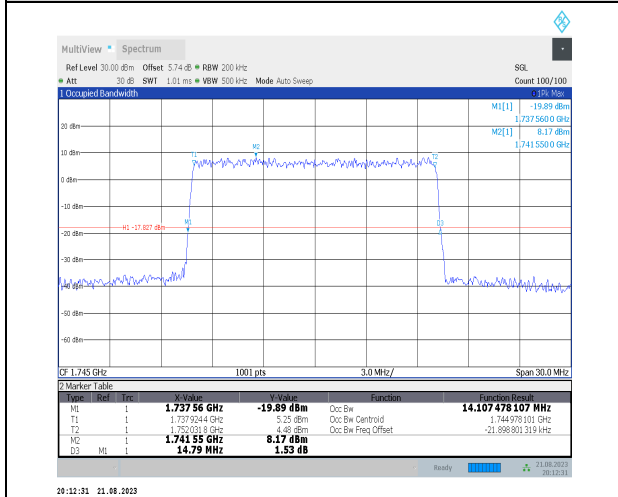
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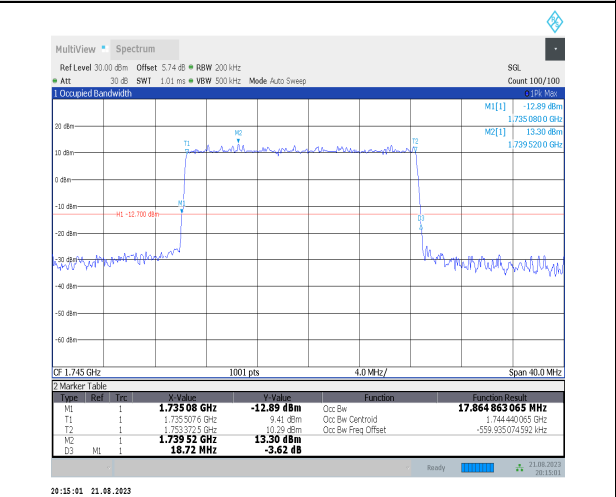
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-Ant3-14.131-14.880-≤15-PASS



1-N66-PC3-15-15-M-8-CP-64QAM-Outer\_Full-79@0  
-Ant3-14.112-14.850-≤15-PASS



1-N66-PC3-15-15-M-9-CP-256QAM-Outer\_Full-79@0  
-Ant3-14.107-14.790-≤15-PASS



1-N66-PC3-15-20-M-1-DFT-QPSK-Outer\_Full-100@0  
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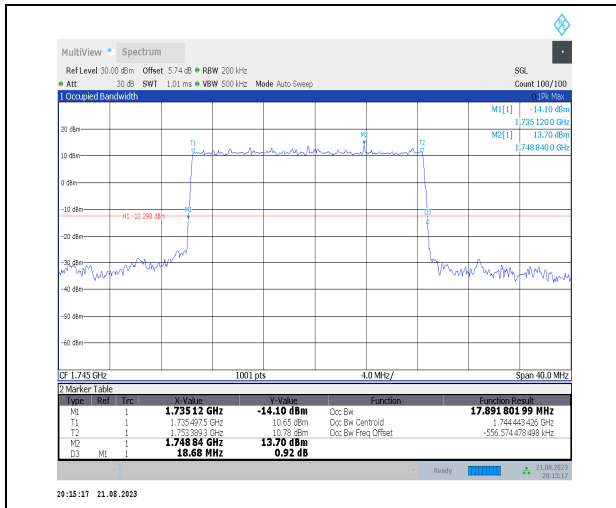


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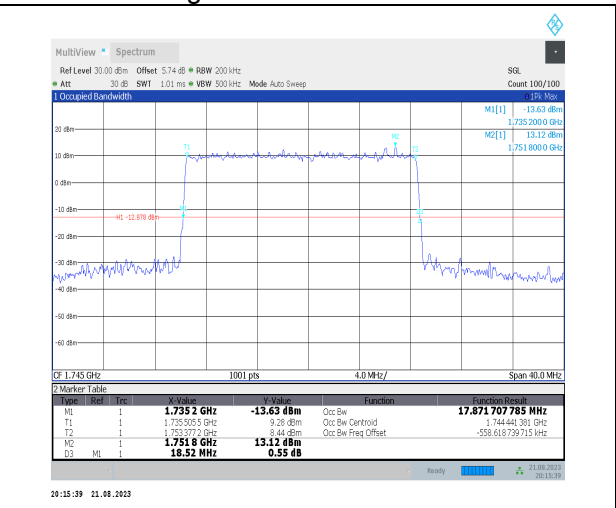
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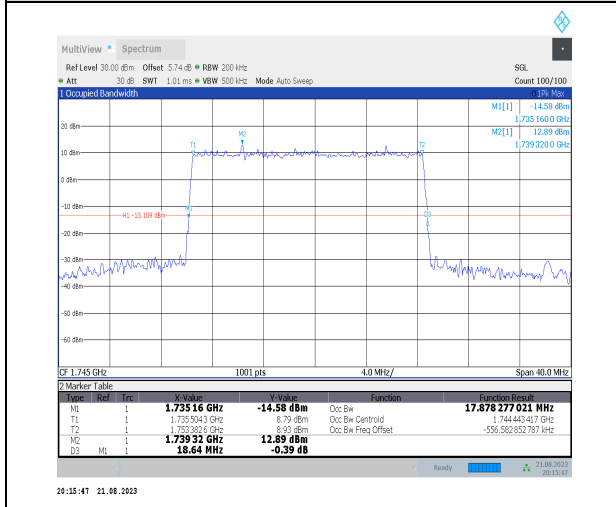




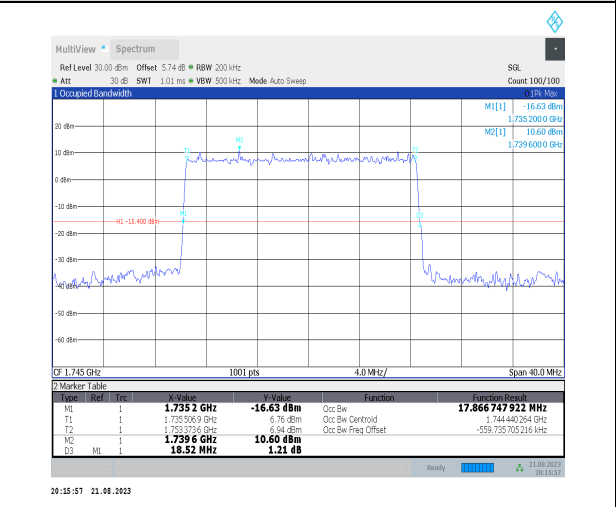
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1-N66-PC3-15-20-M-3-DFT-16QAM-Outer\_Full-100  
@0-Ant3-17.872-18.520-≤20-PASS



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@0-Ant3-17.878-18.640-≤20-PASS

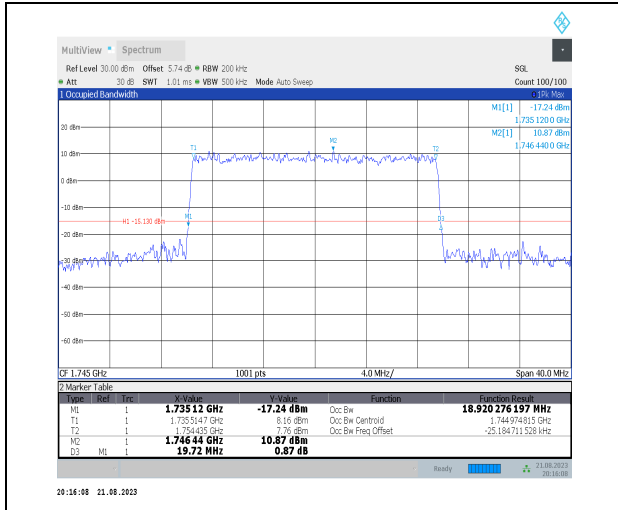


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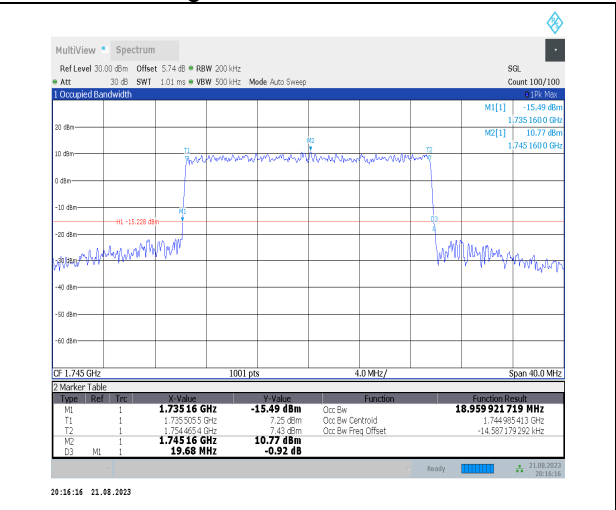


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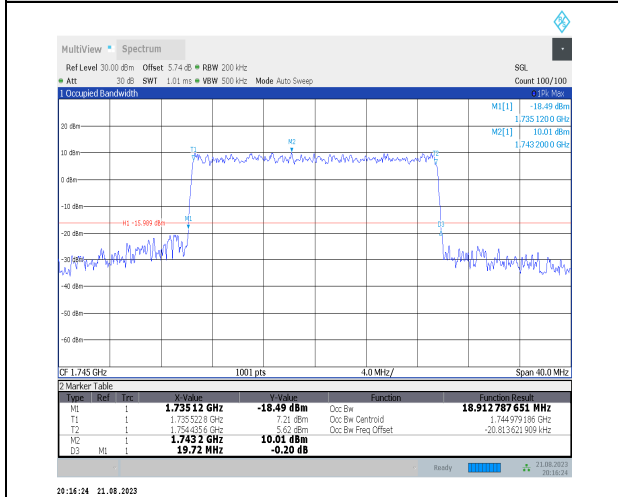
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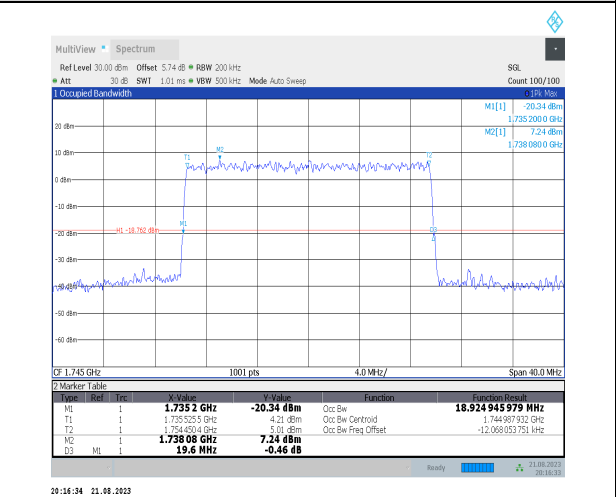
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0-Ant3-18.96-19.680-<=20-PASS



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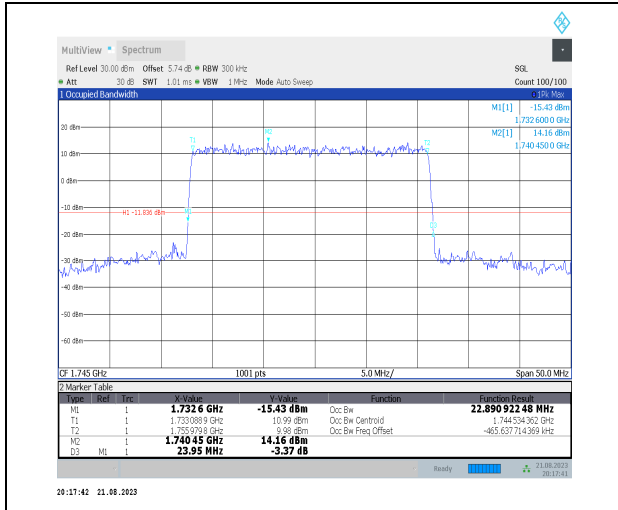
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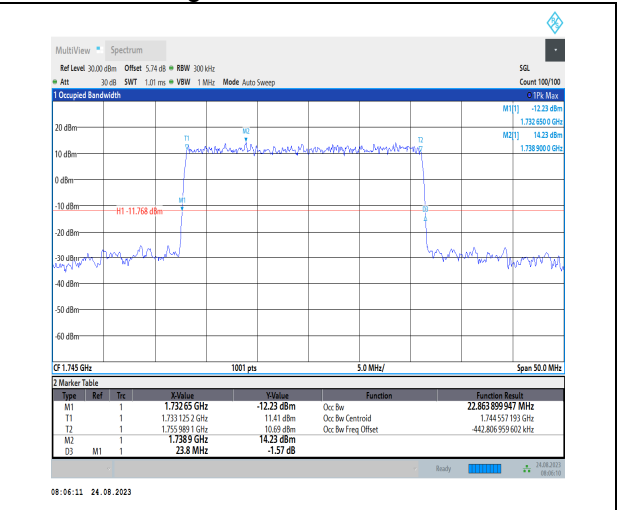
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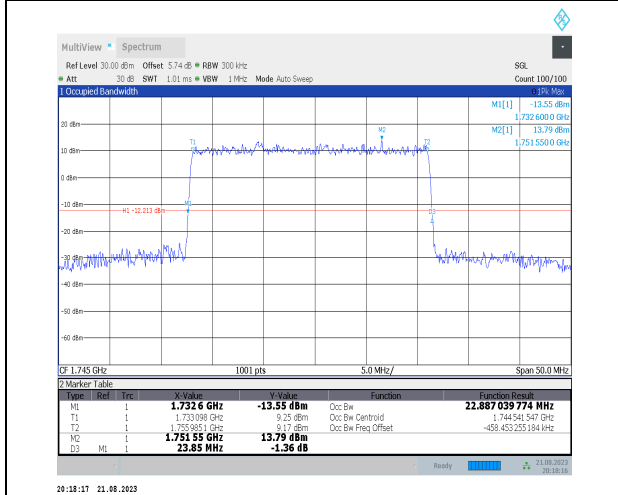
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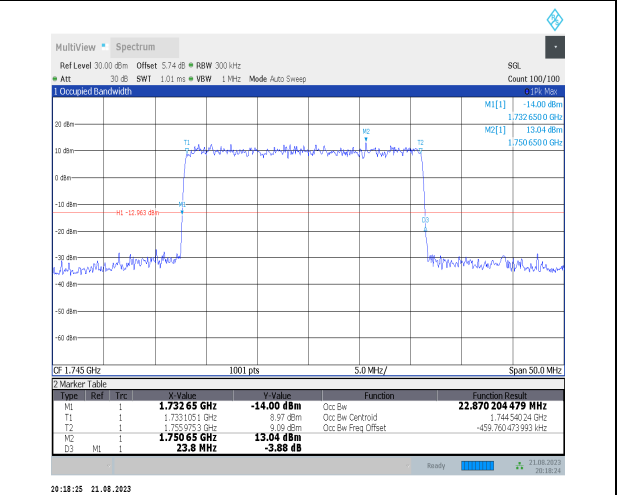
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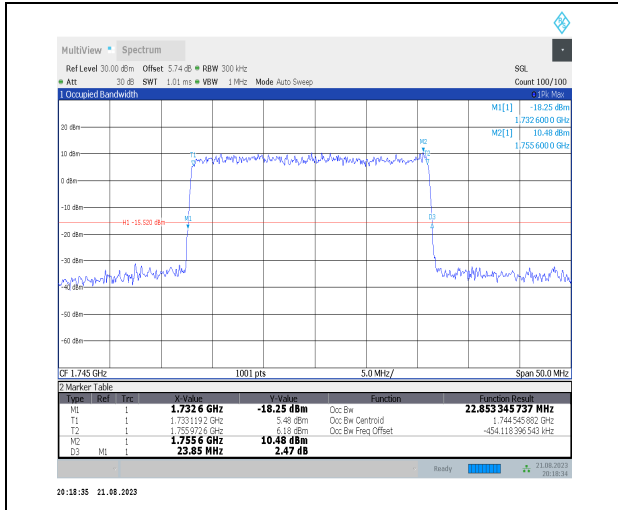
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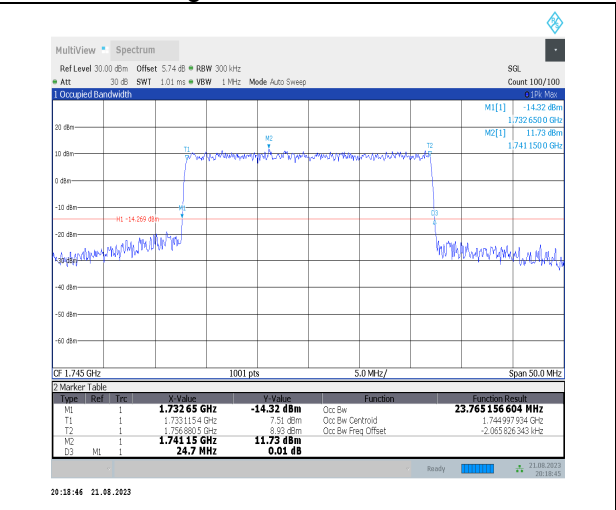
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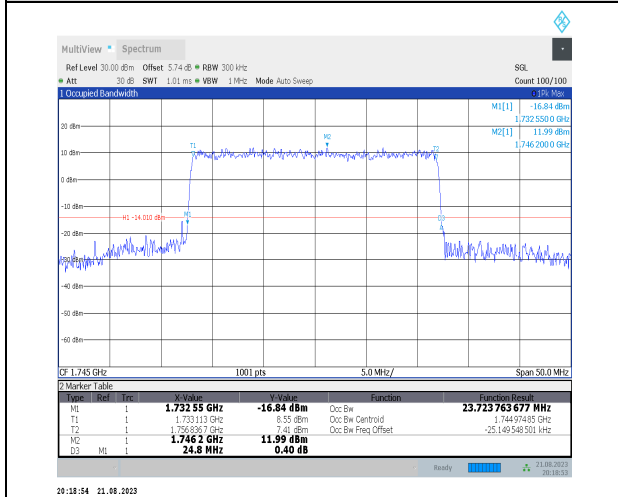
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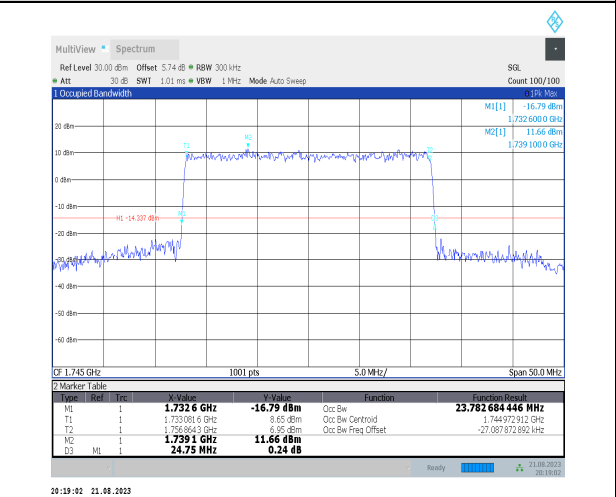
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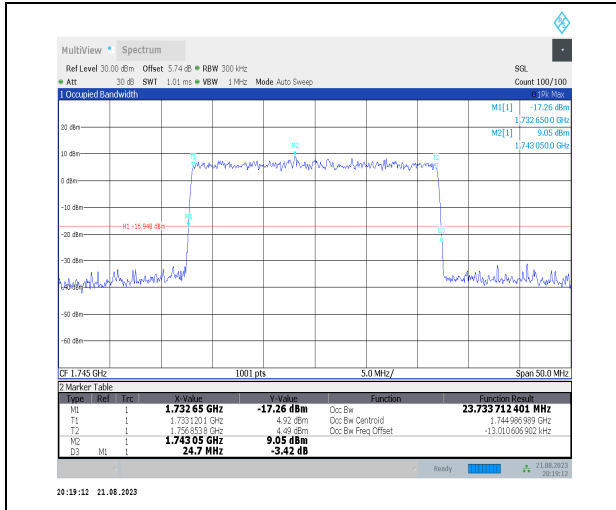


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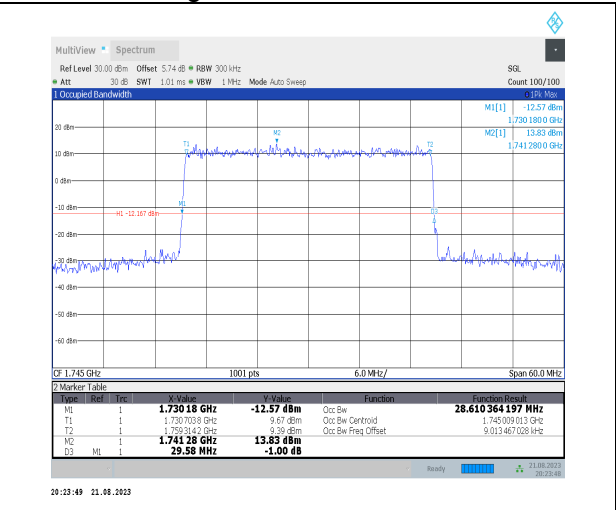


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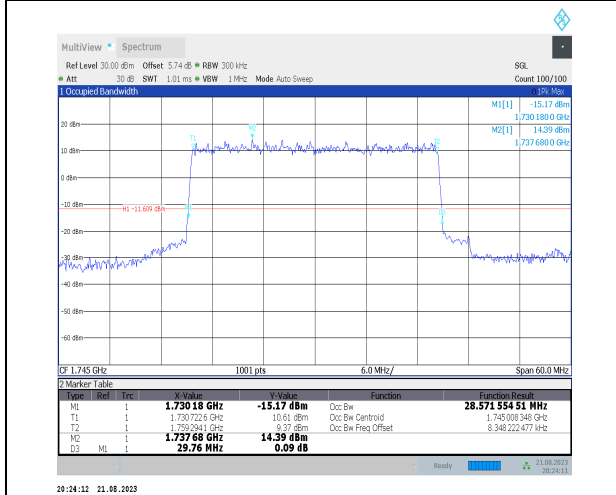
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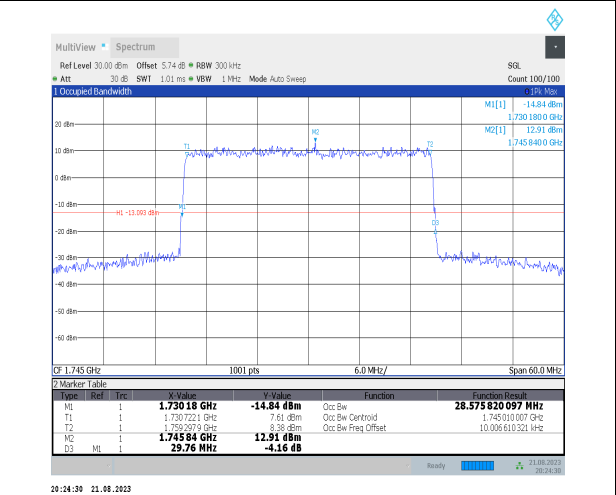
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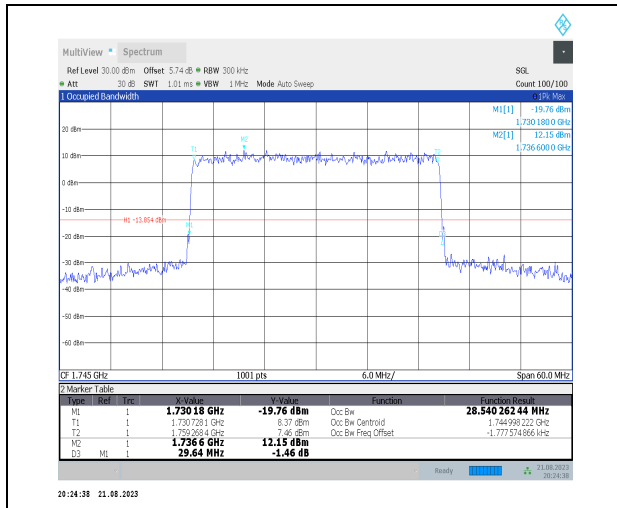


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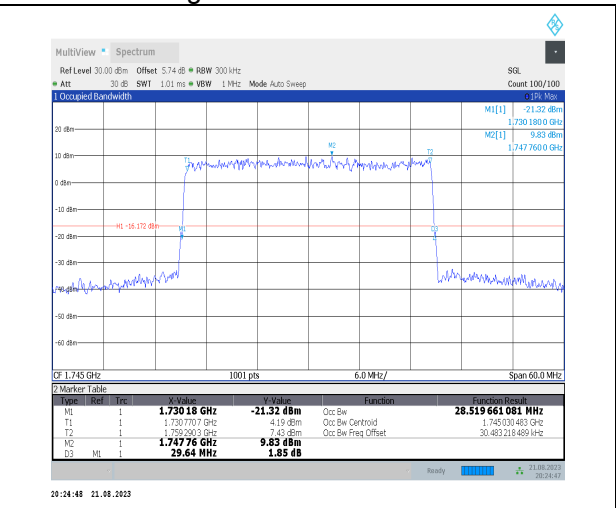


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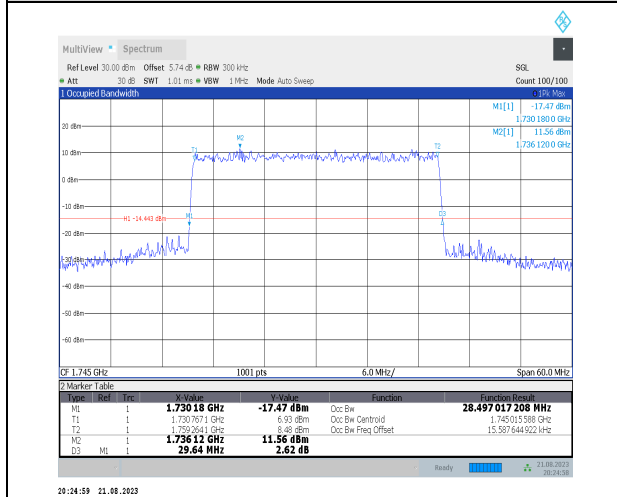
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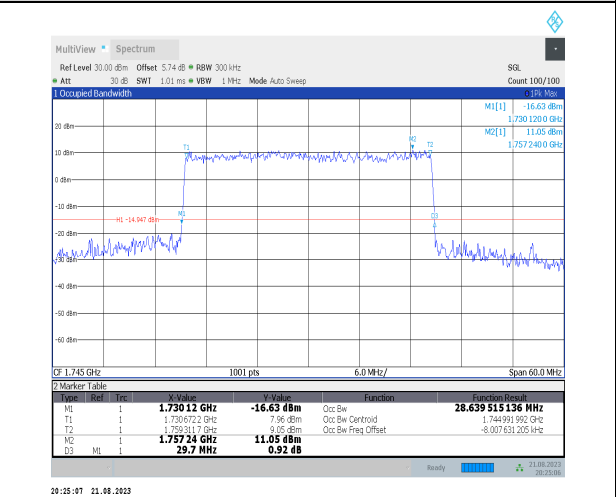
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@0-Ant3-28.522-29.640-≤30-PASS



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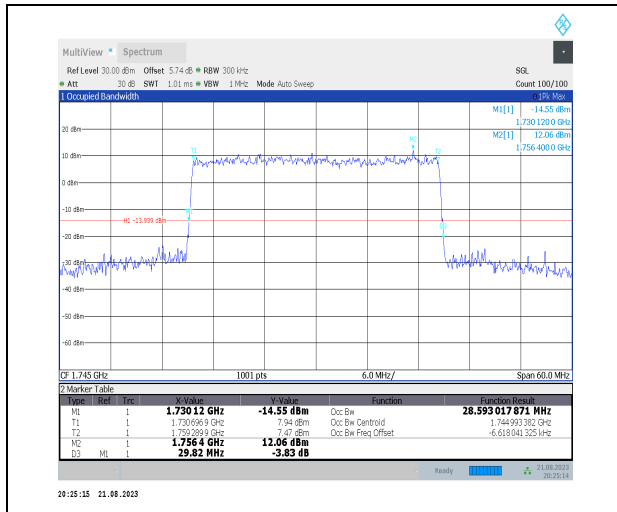


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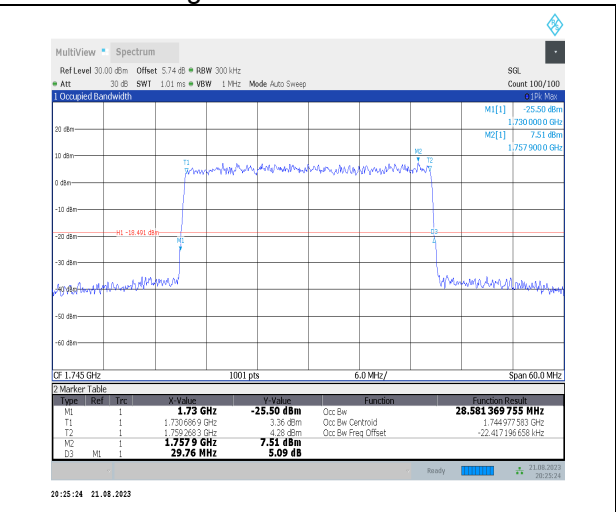


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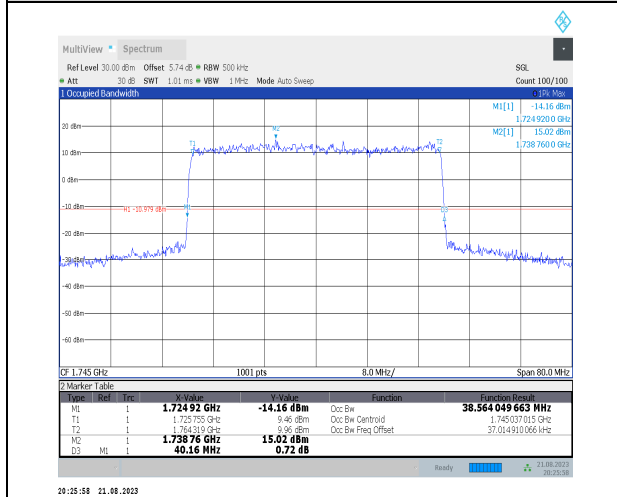
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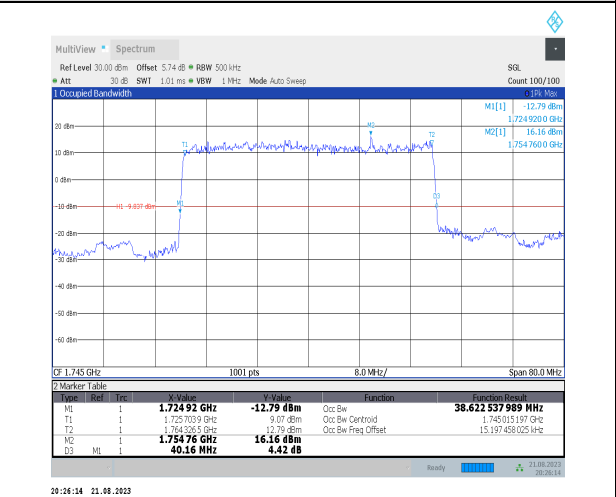
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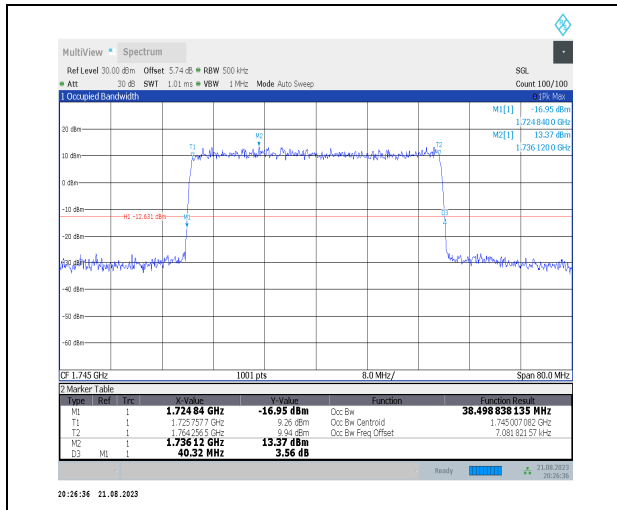


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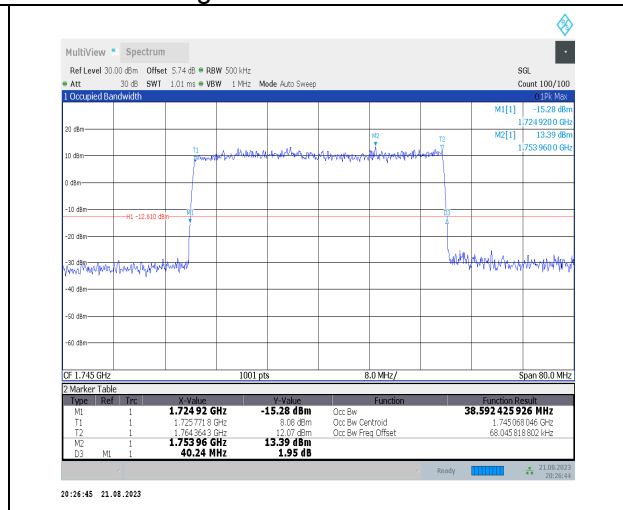


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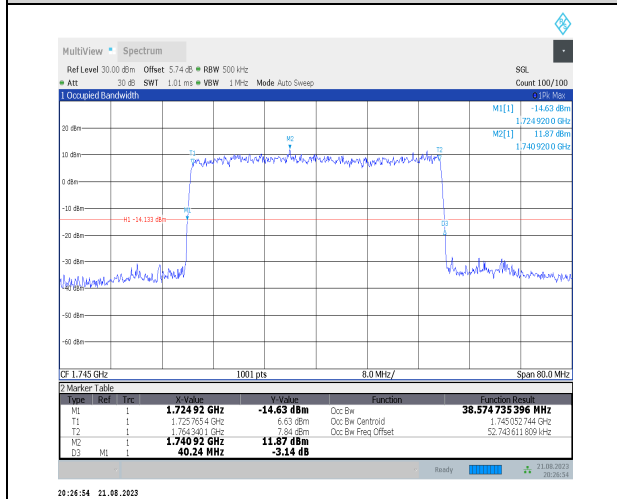
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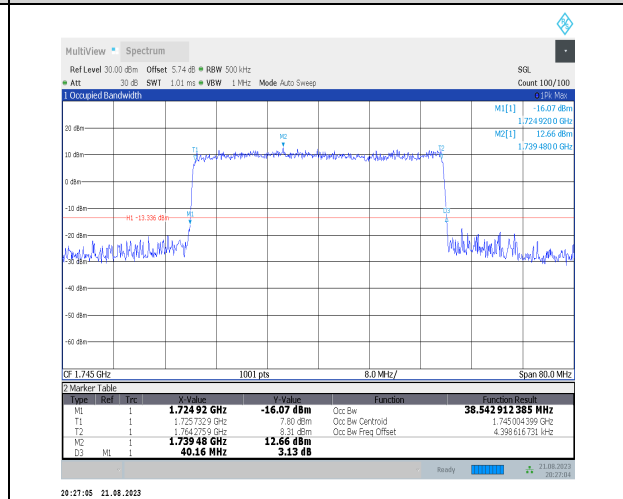
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@0-Ant3-38.556-40.240-≤40-PASS



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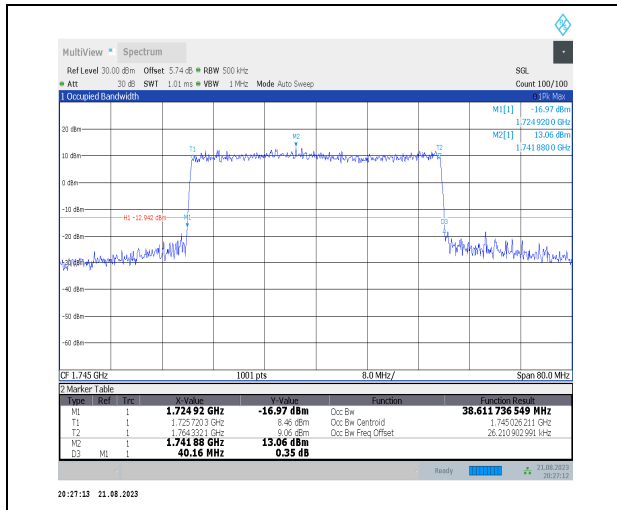
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-Ant3-38.526-40.160-≤40-PASS



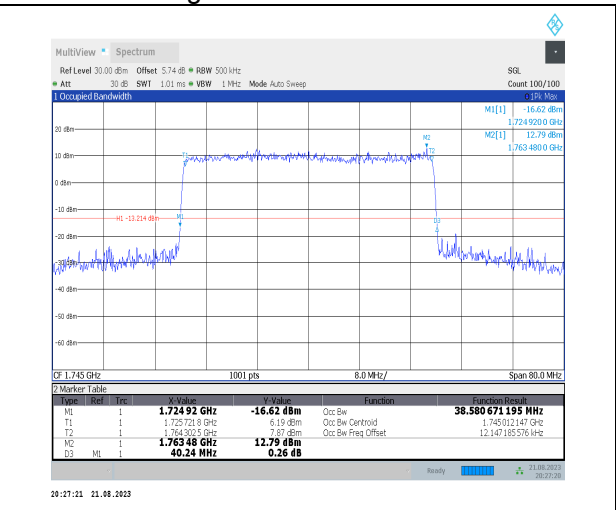
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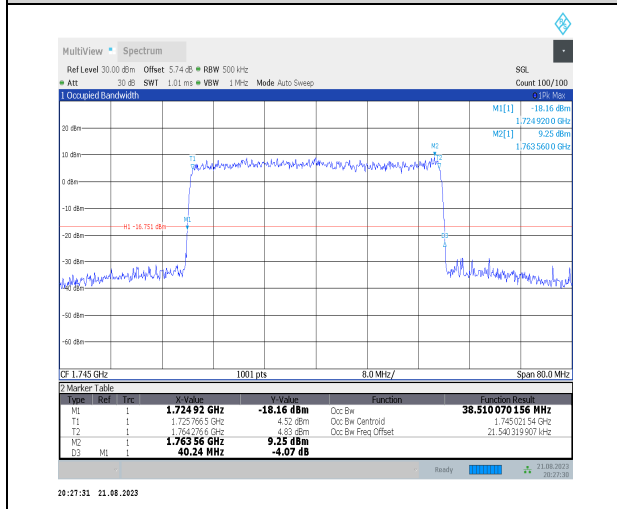




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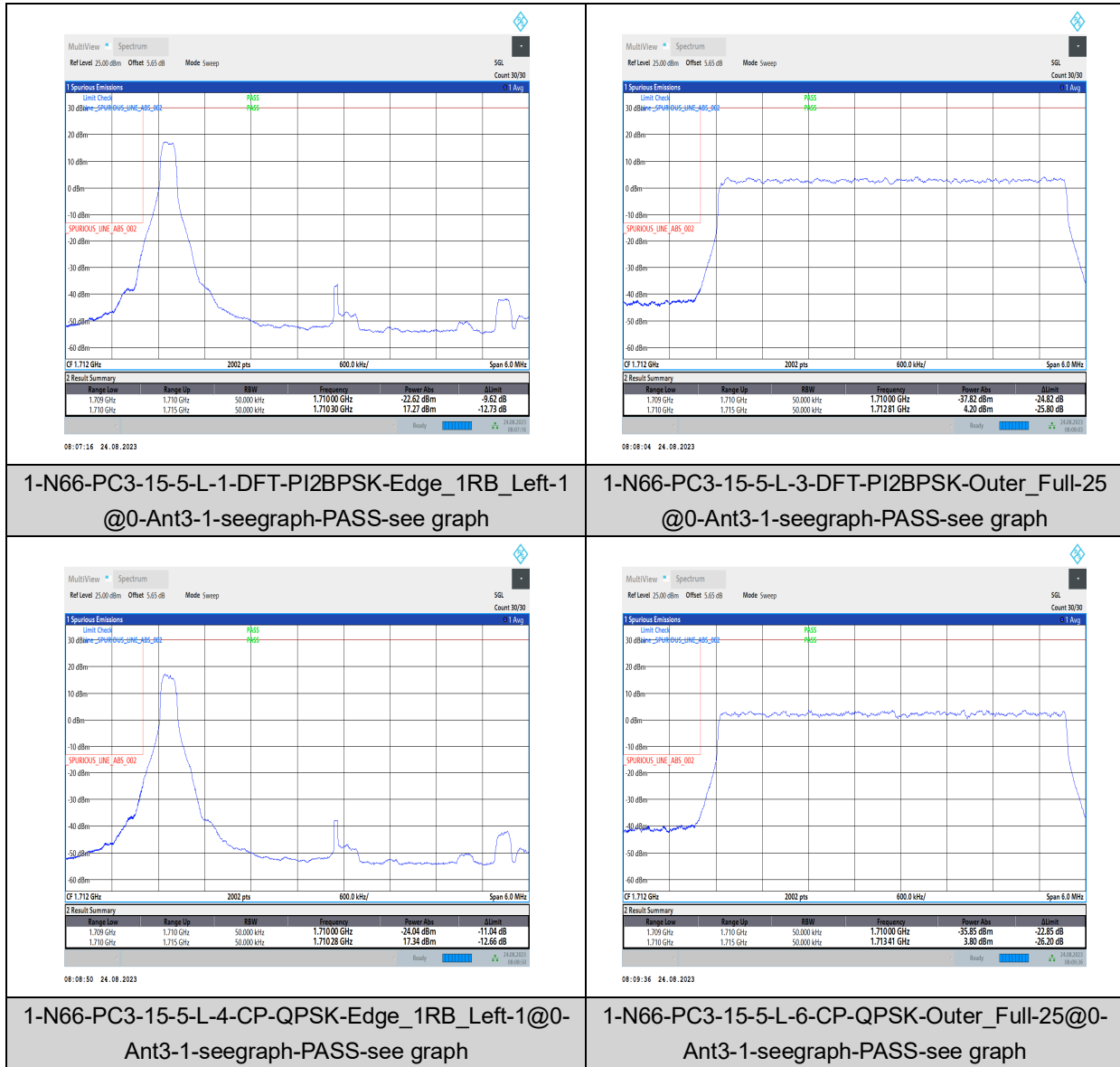


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## Band Edge for SA

### Test Graphs



1-N66-PC3-15-5-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1 @0-Ant3-1-seegraph-PASS-see graph

1-N66-PC3-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25 @0-Ant3-1-seegraph-PASS-see graph

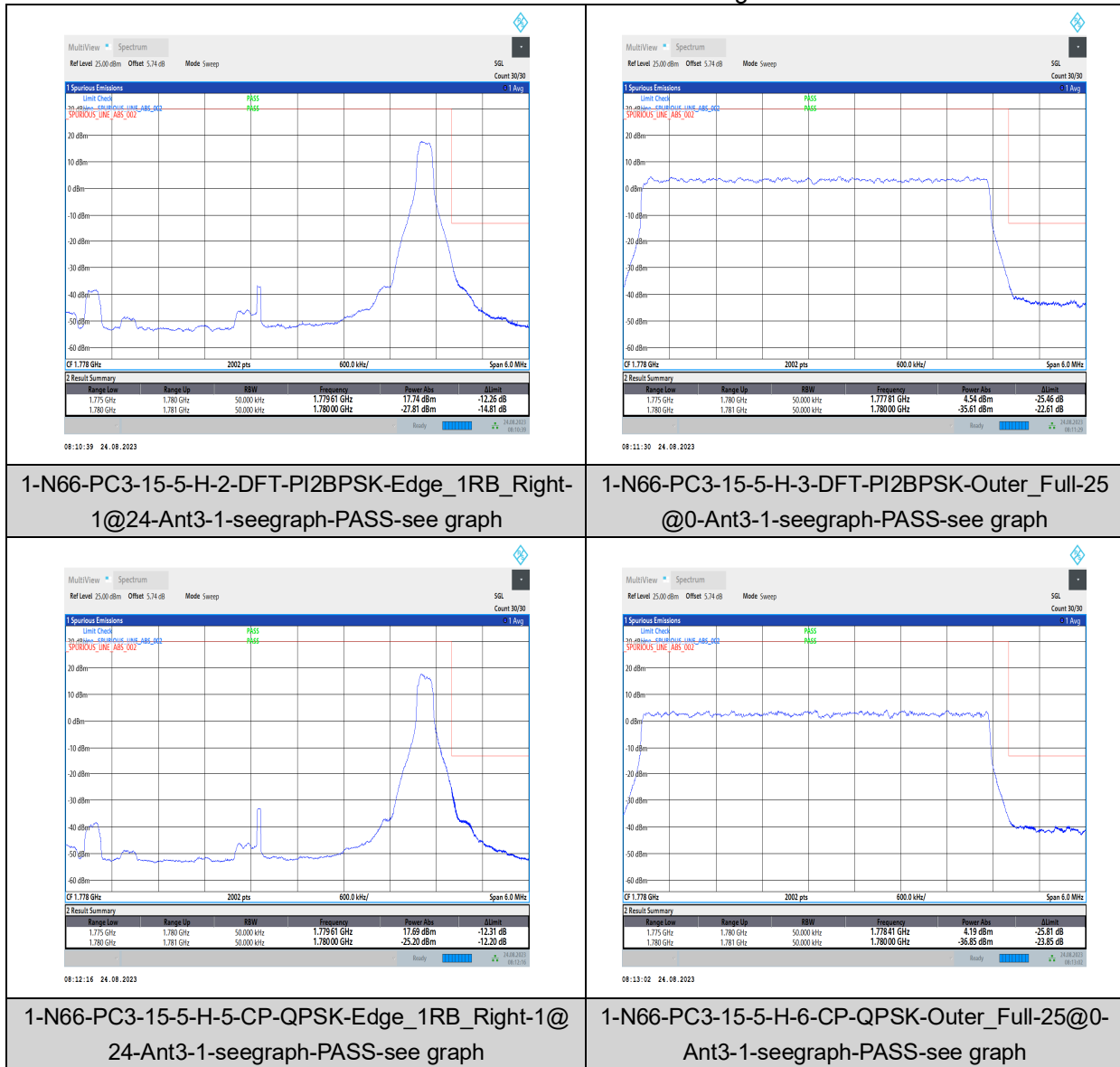
1-N66-PC3-15-5-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant3-1-seegraph-PASS-see graph

1-N66-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-Ant3-1-seegraph-PASS-see graph



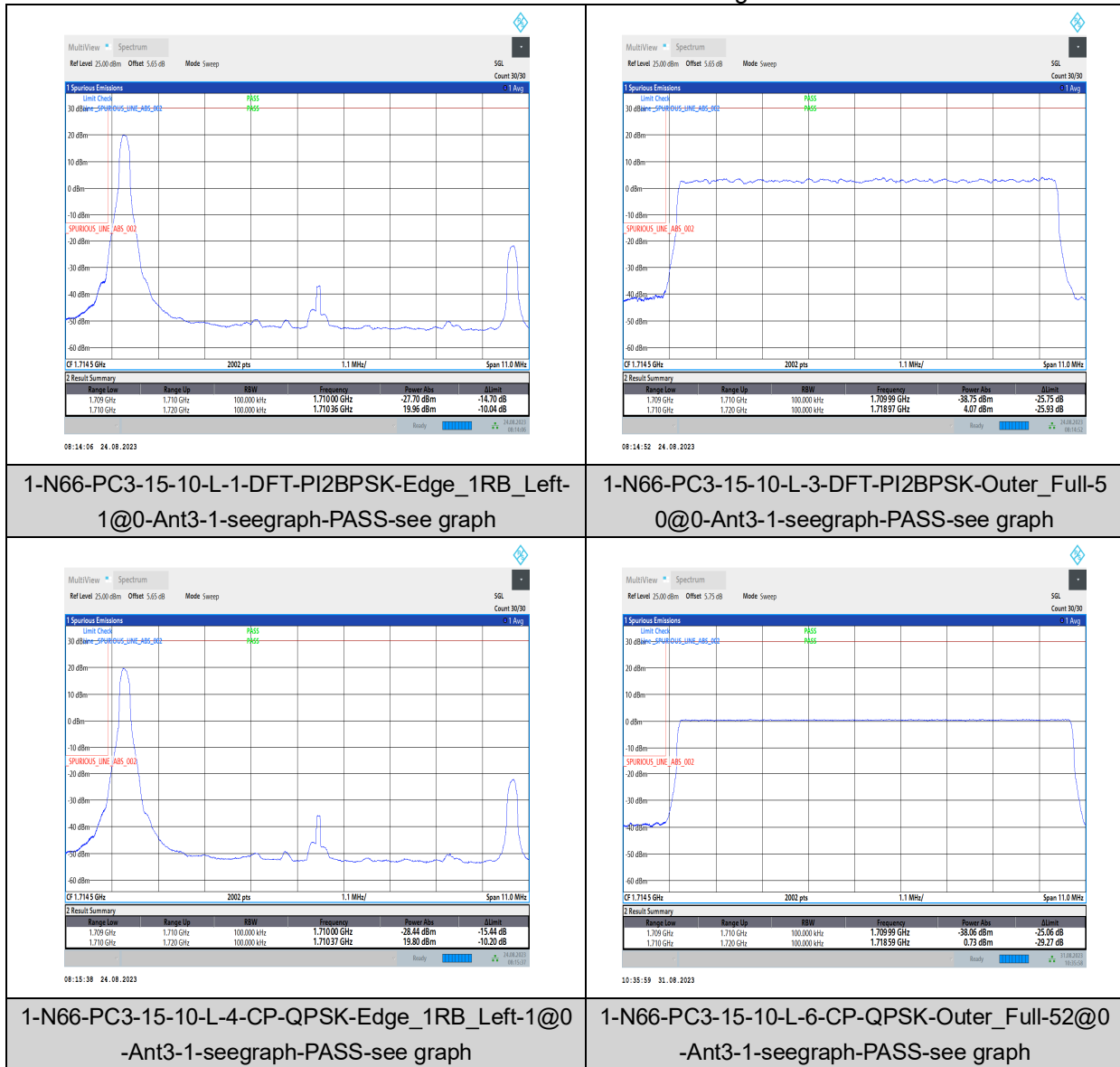
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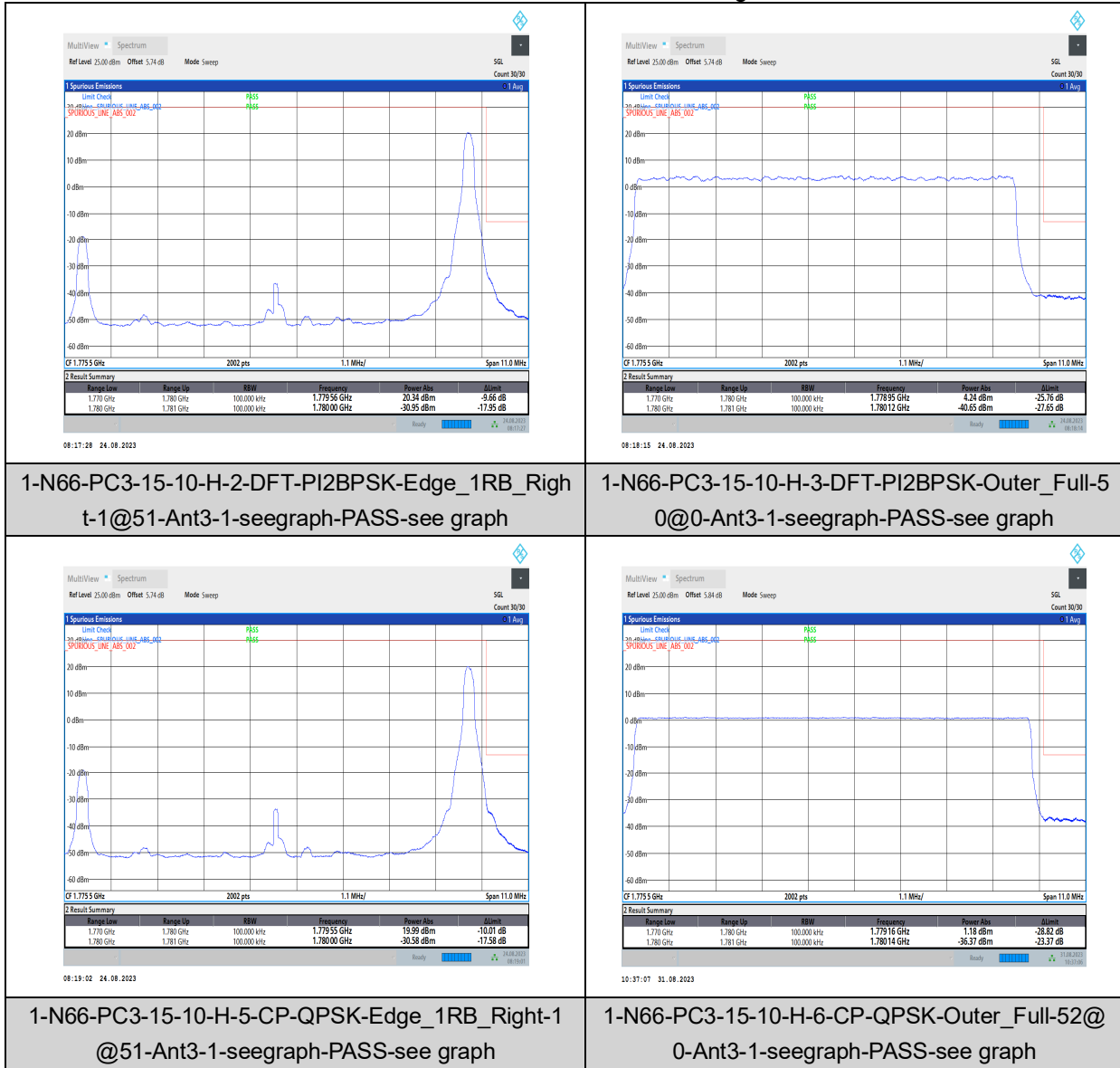
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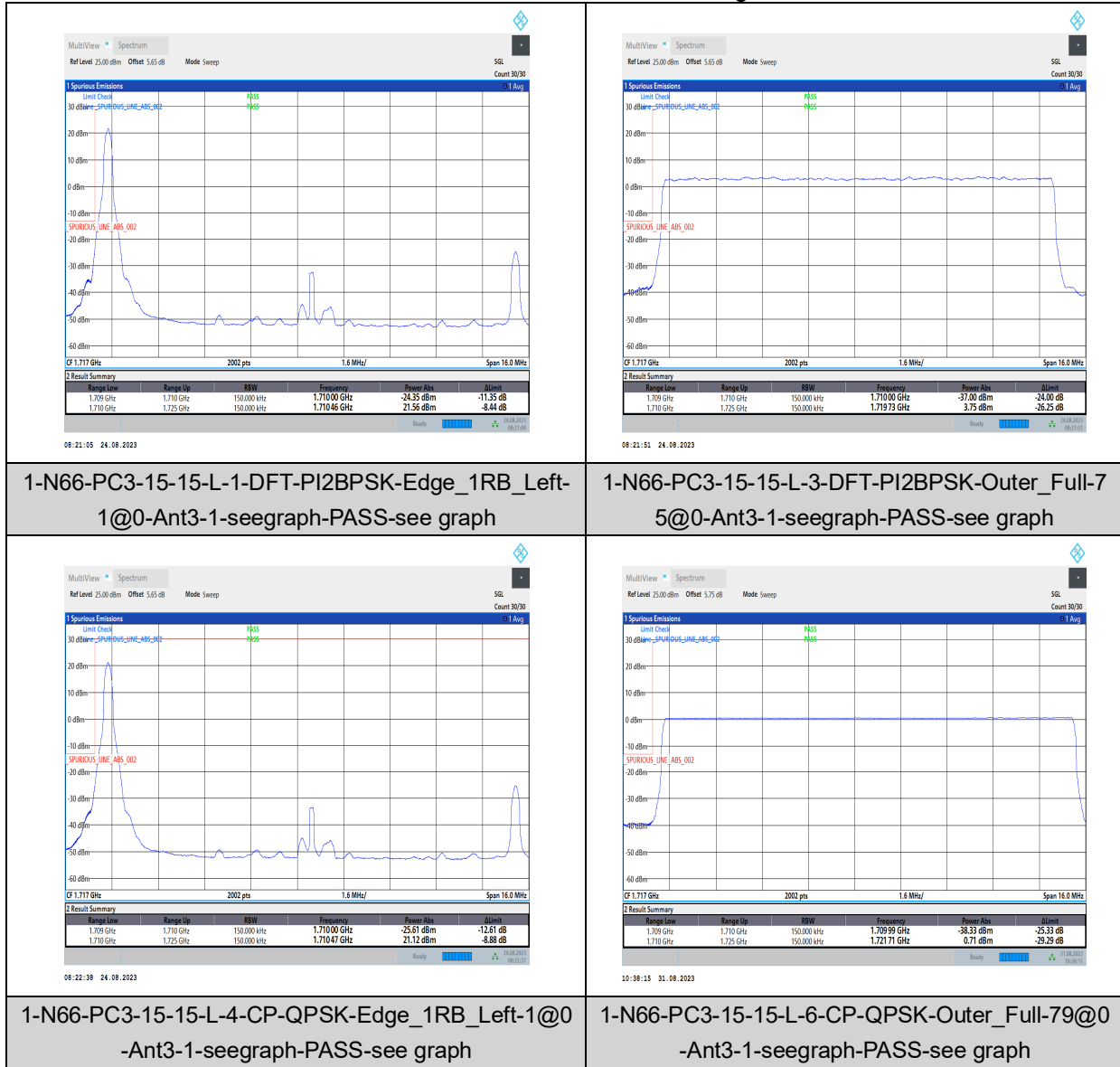
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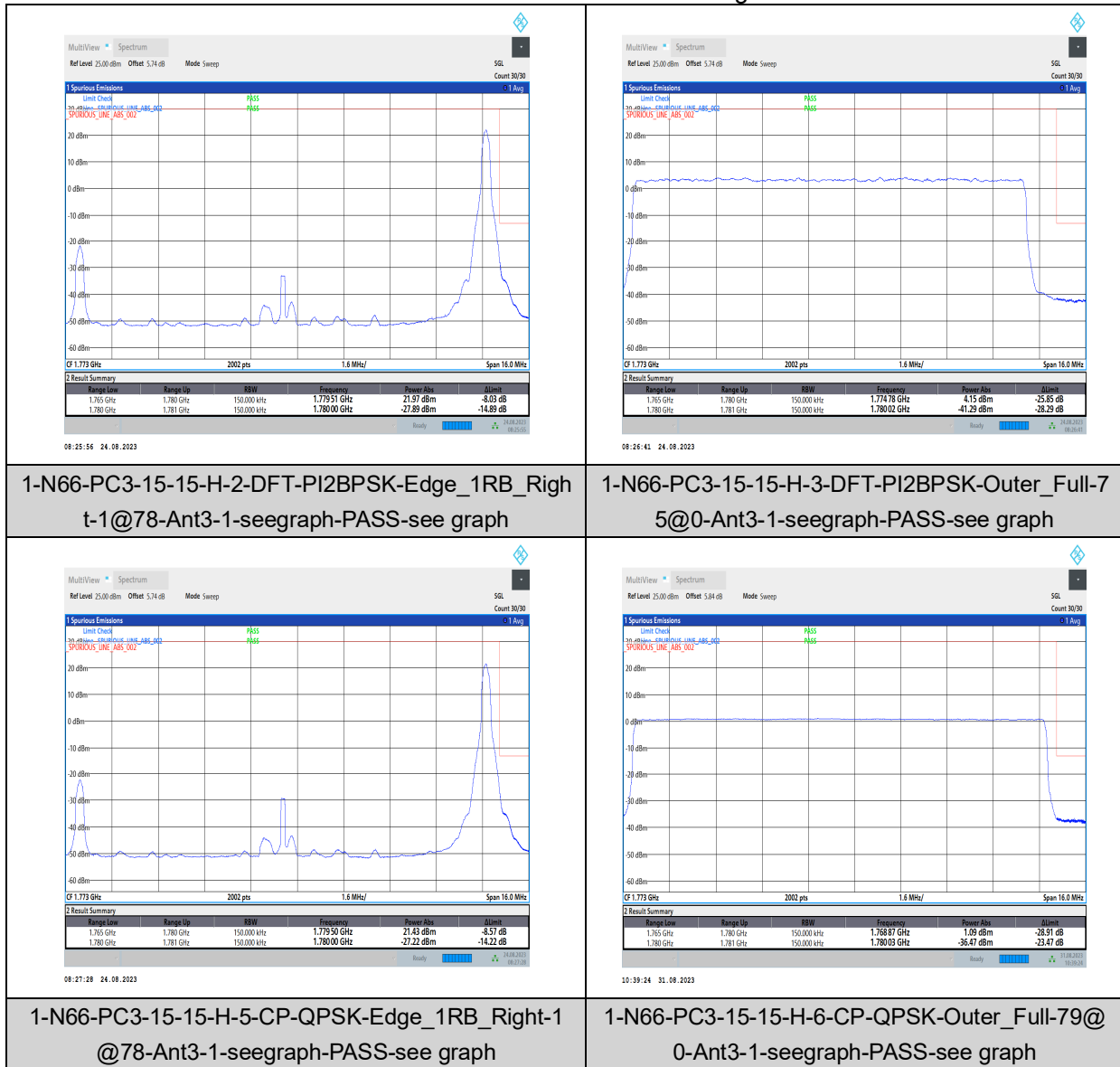
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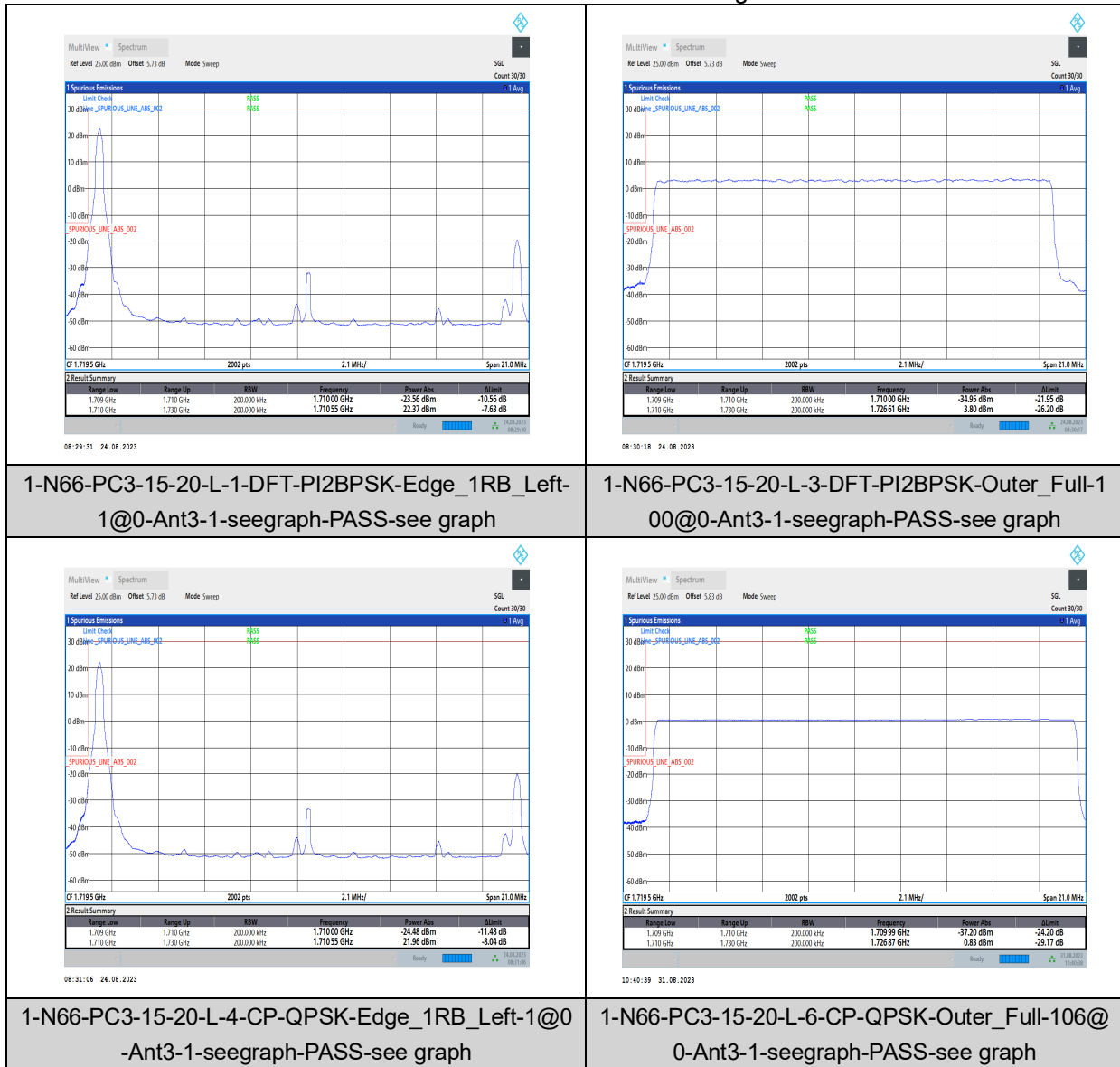
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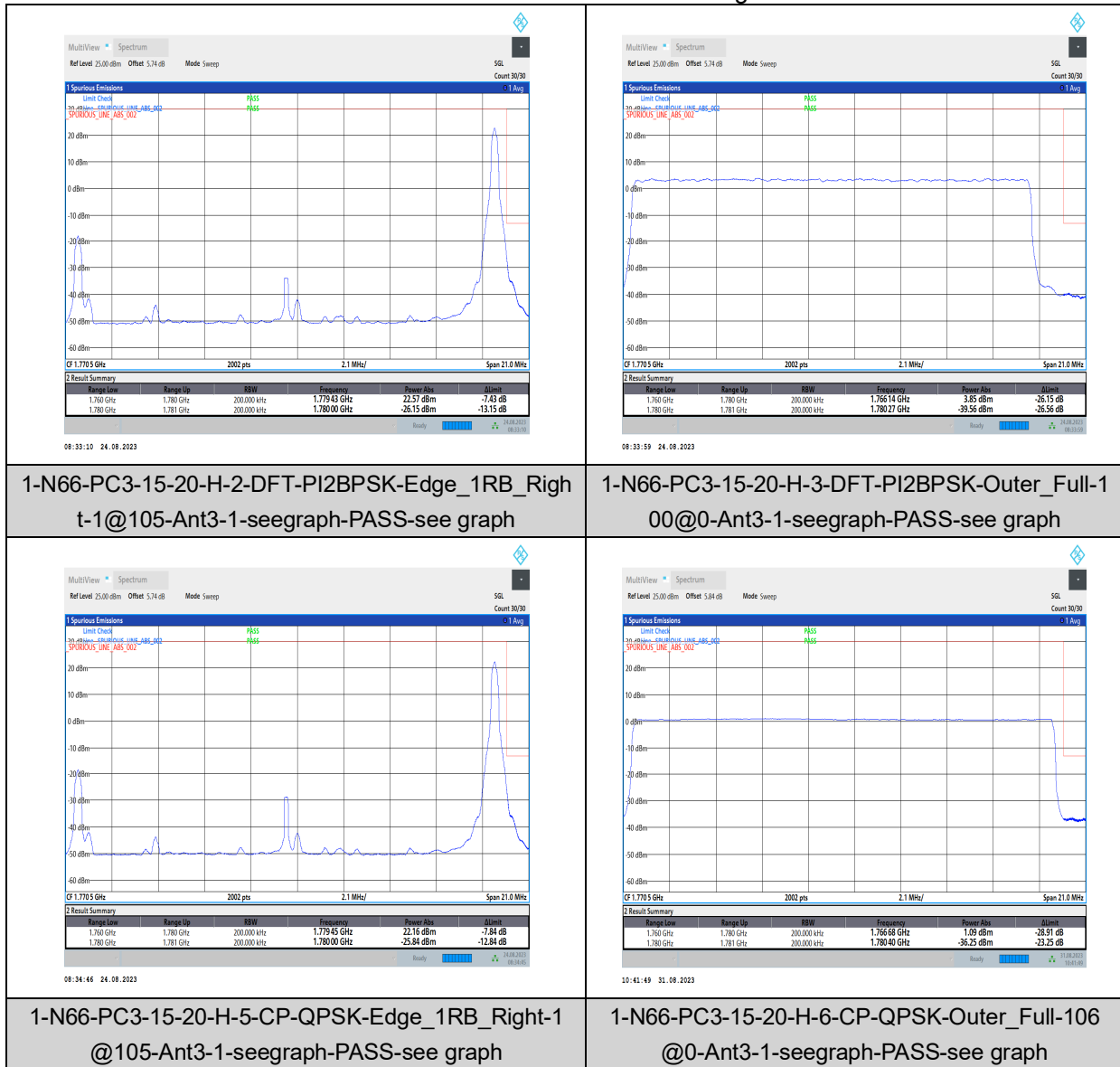
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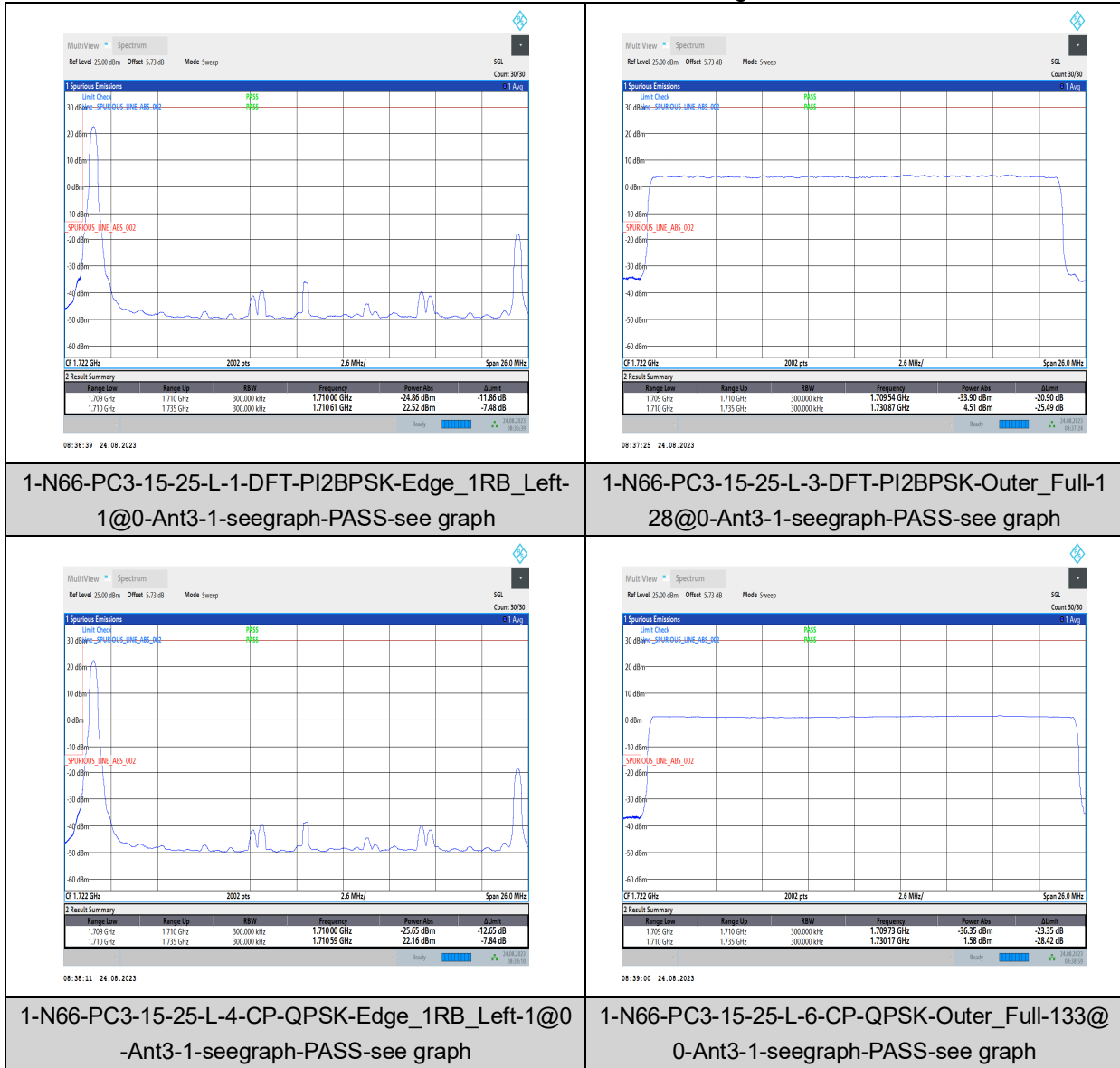
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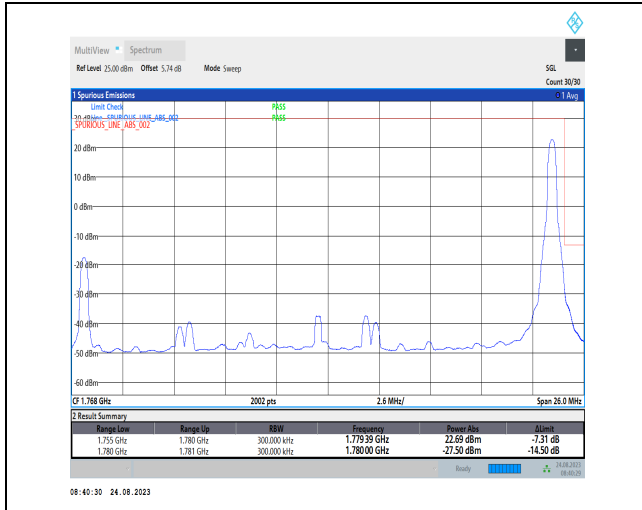
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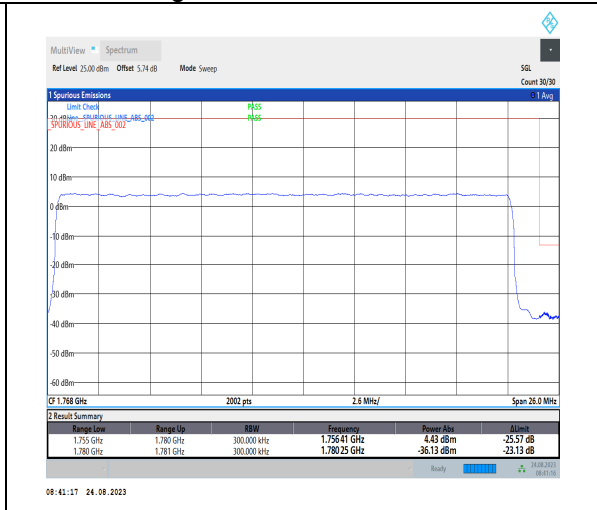


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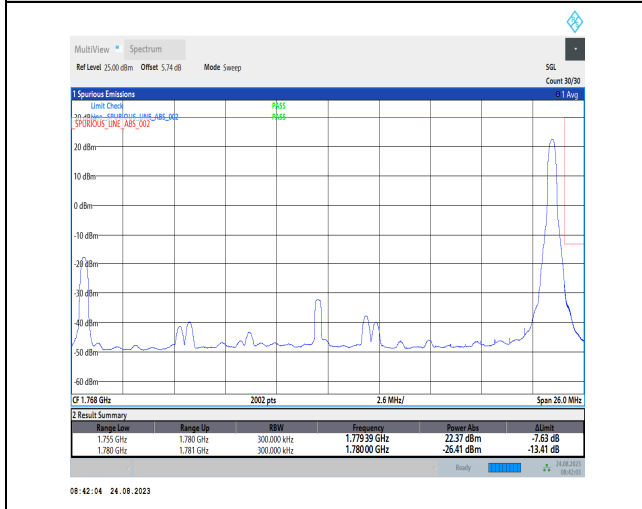
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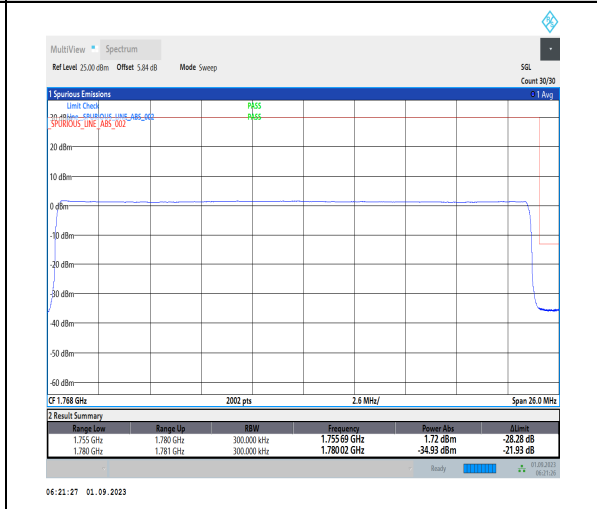
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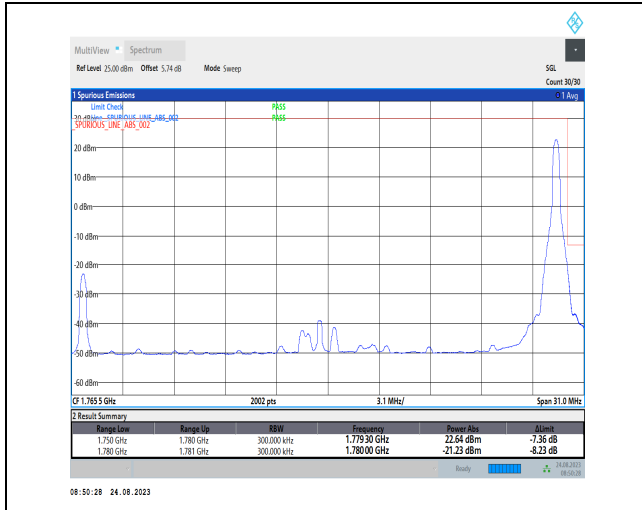
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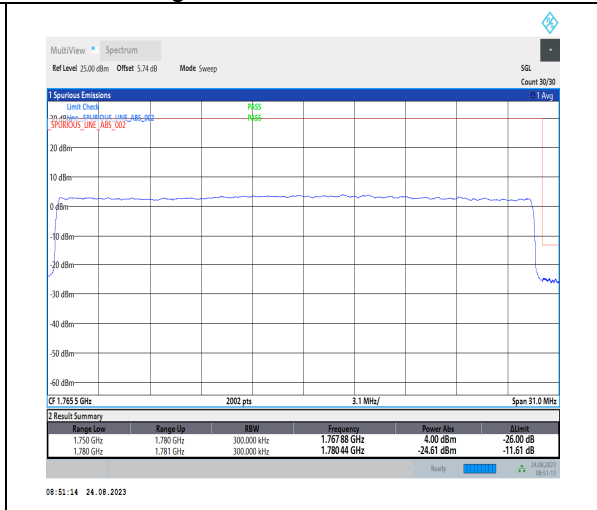


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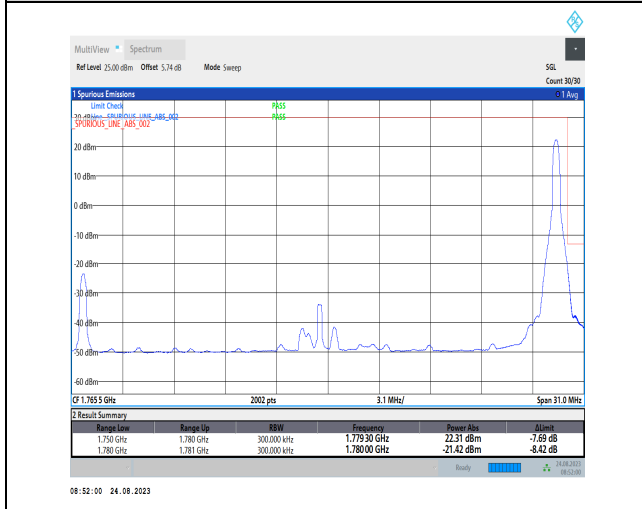
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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



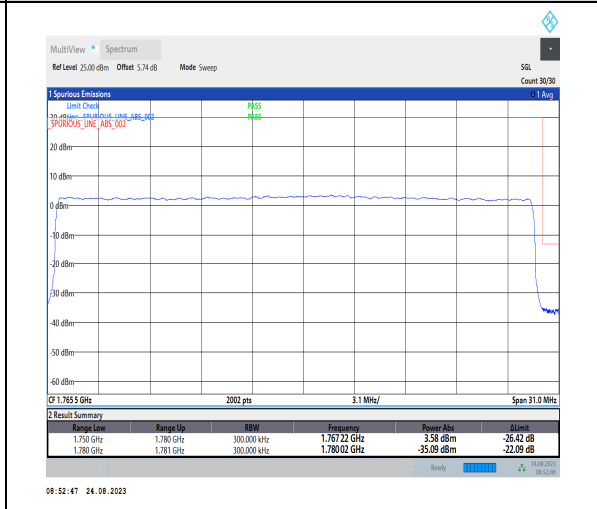
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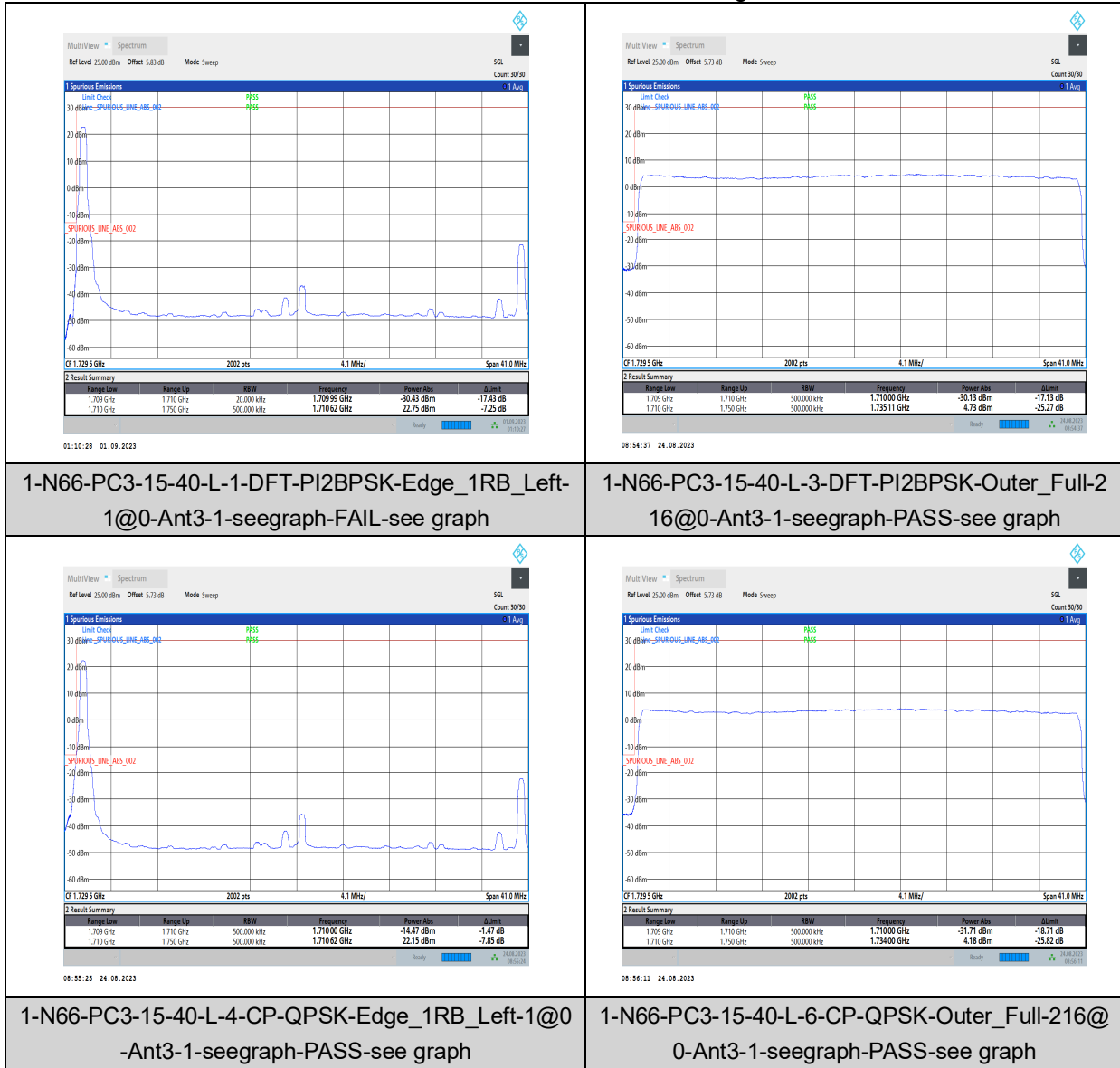


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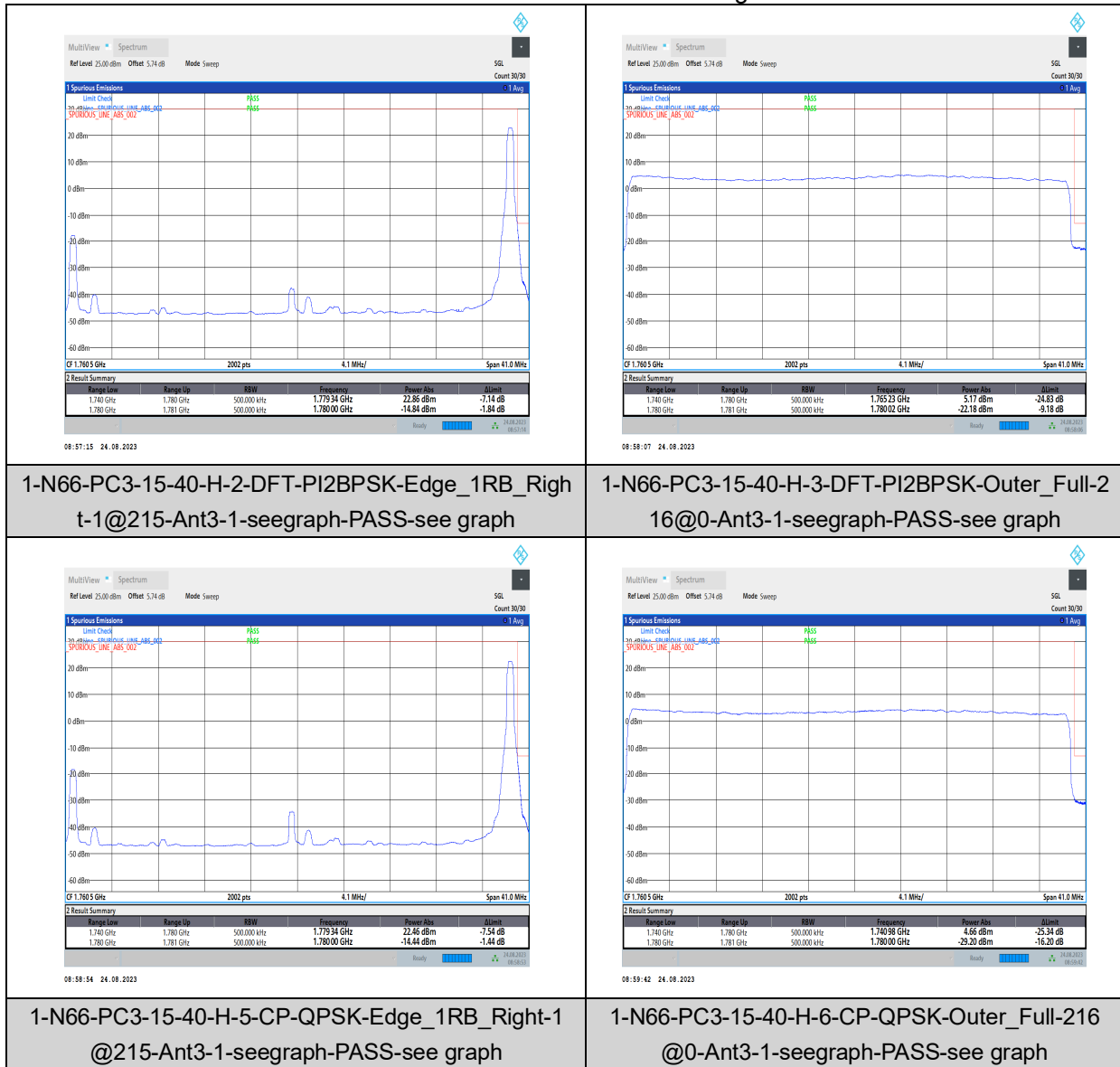
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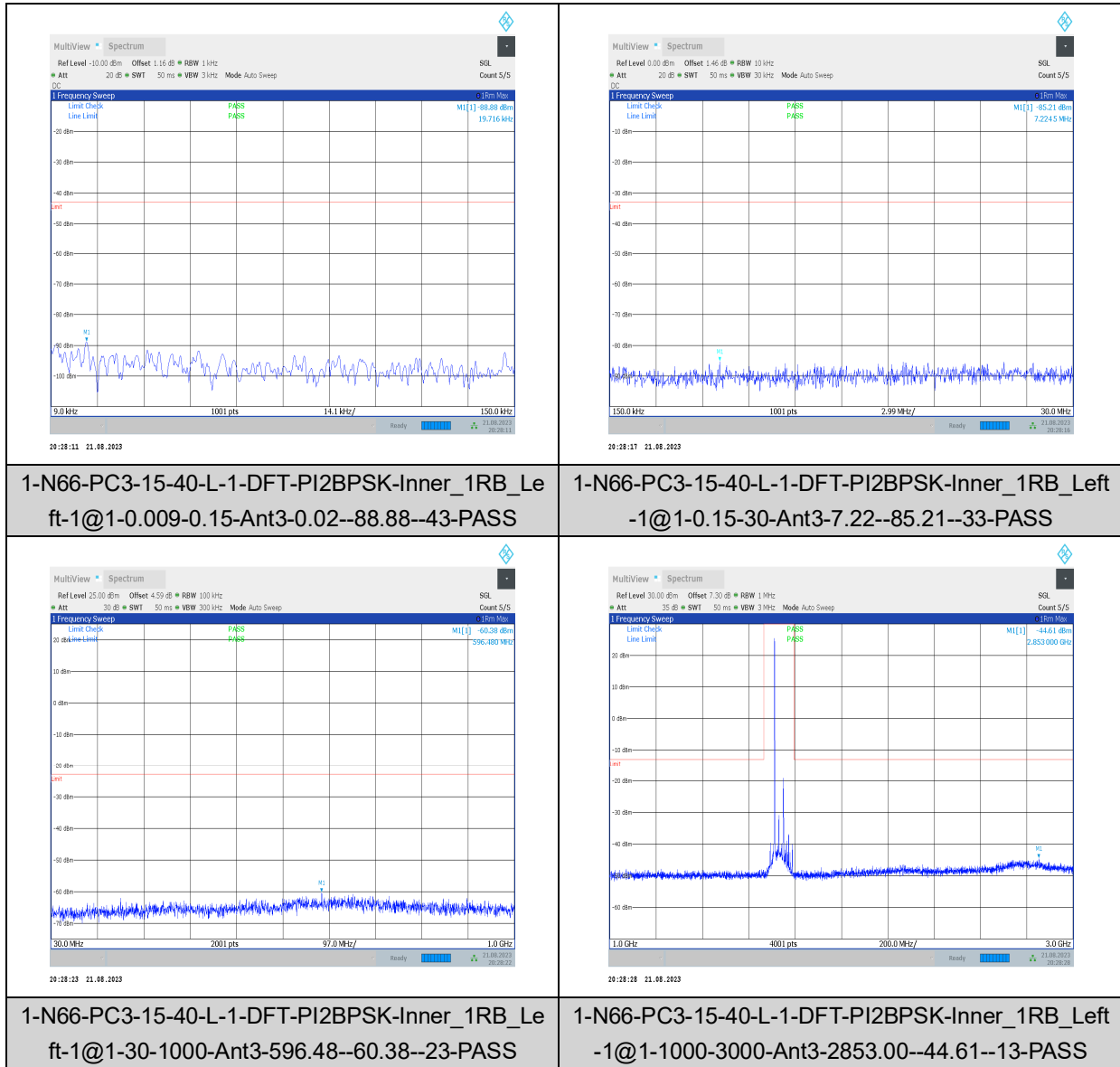
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## Conducted Spurious Emission for SA

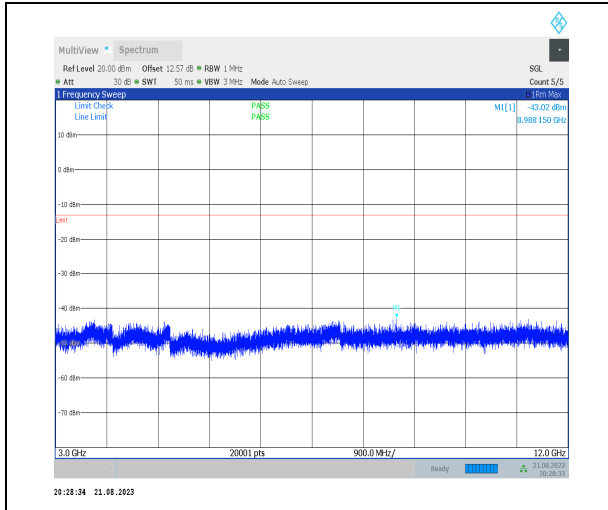
### Test Graphs



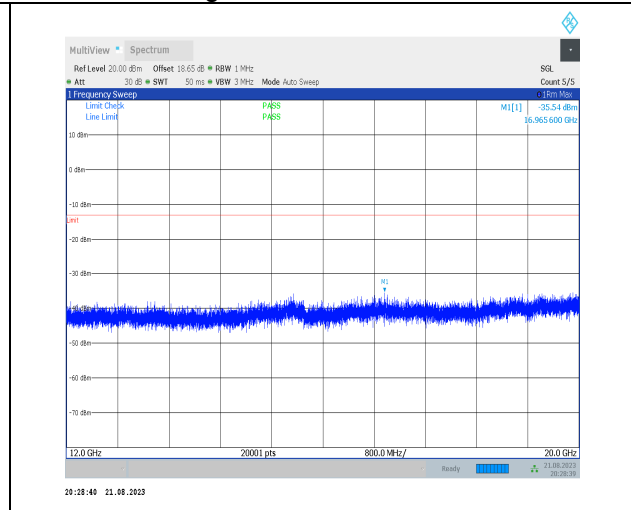
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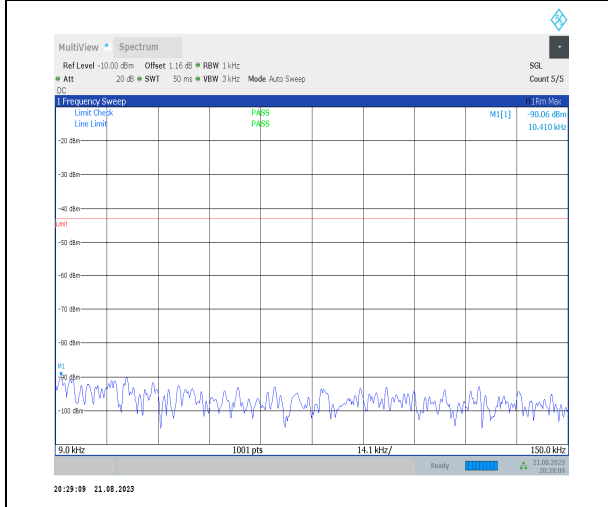




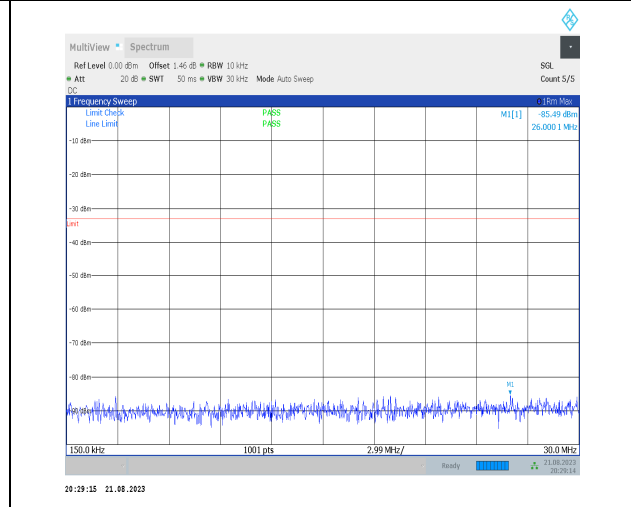
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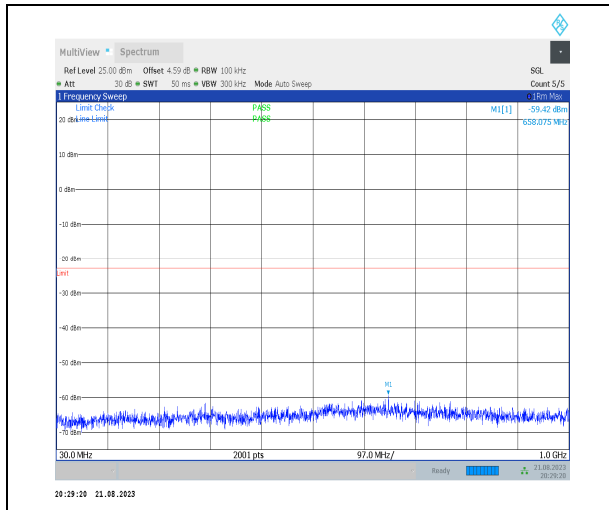


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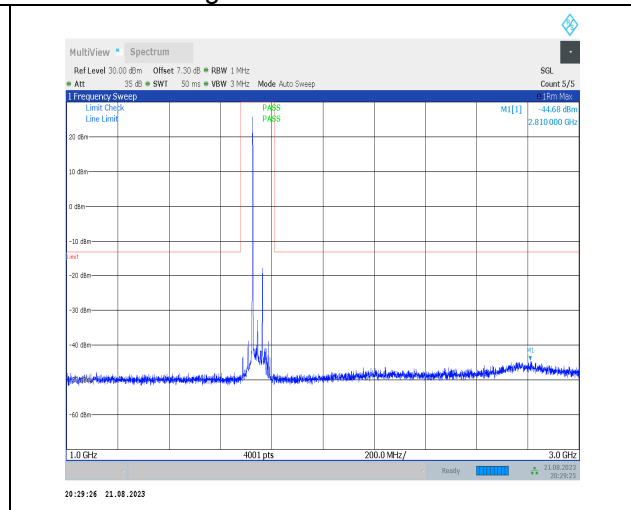


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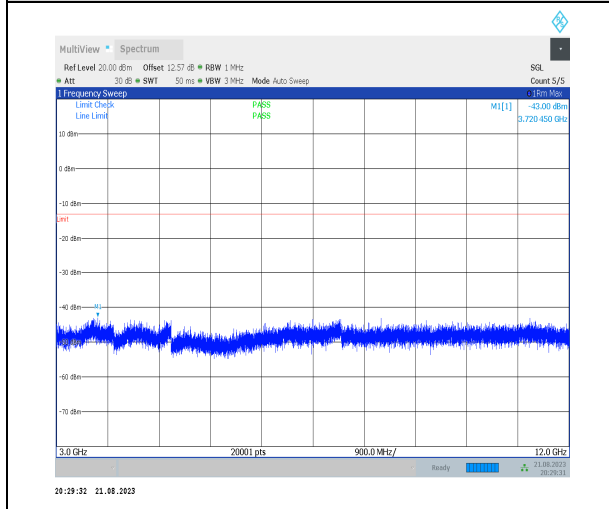
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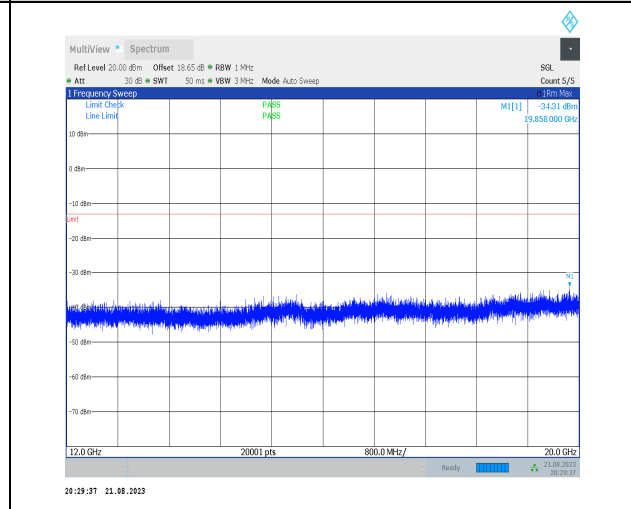
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1-N66-PC3-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Lef  
t-1@1-1000-3000-Ant3-2810.00--44.68--13-PASS



1-N66-PC3-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_L  
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S

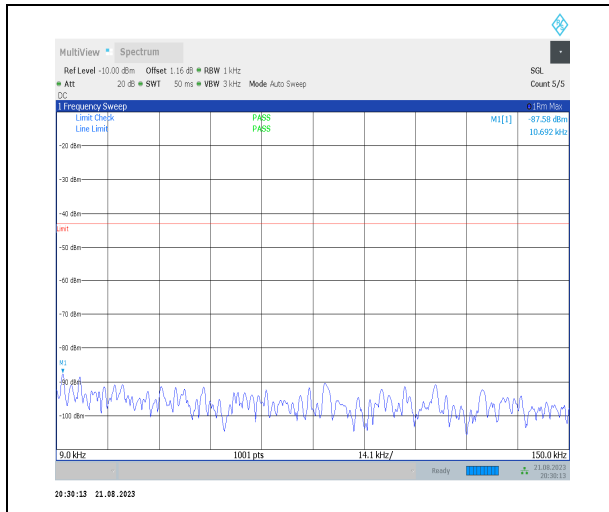


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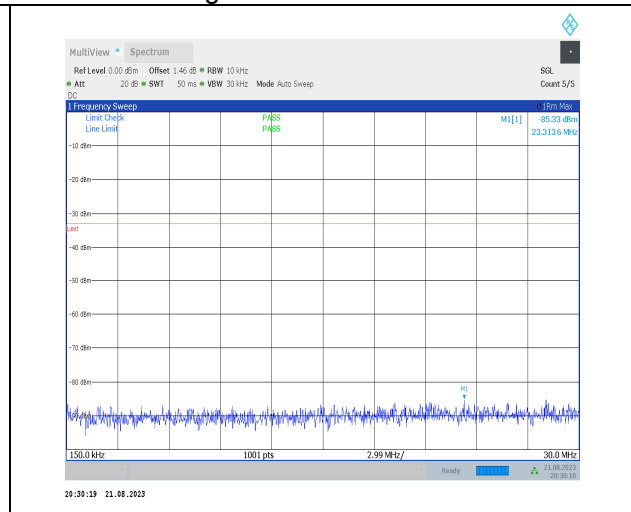


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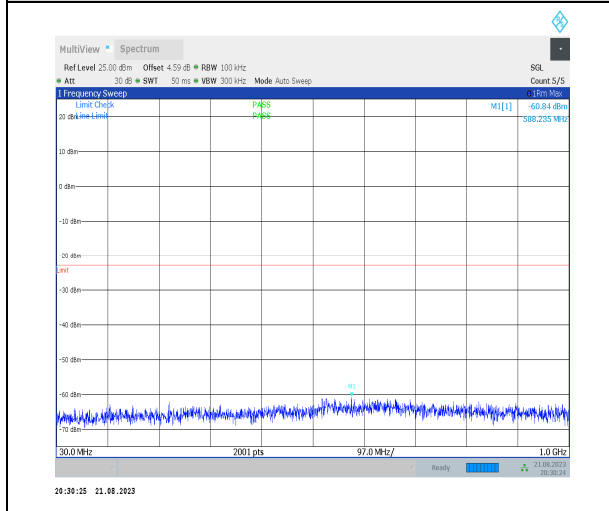
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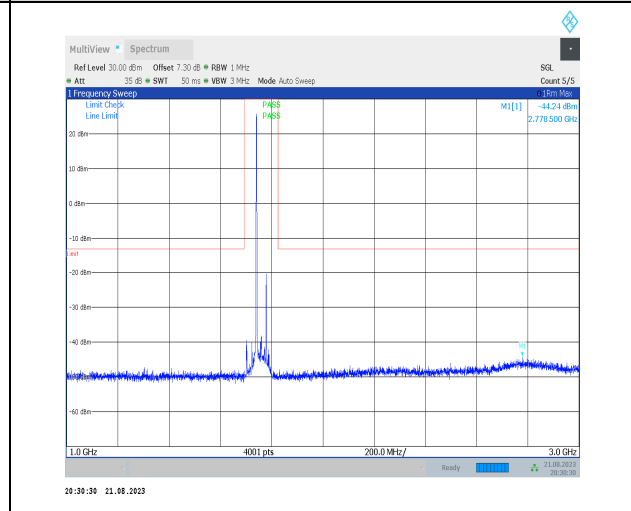
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1-N66-PC3-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_L ef  
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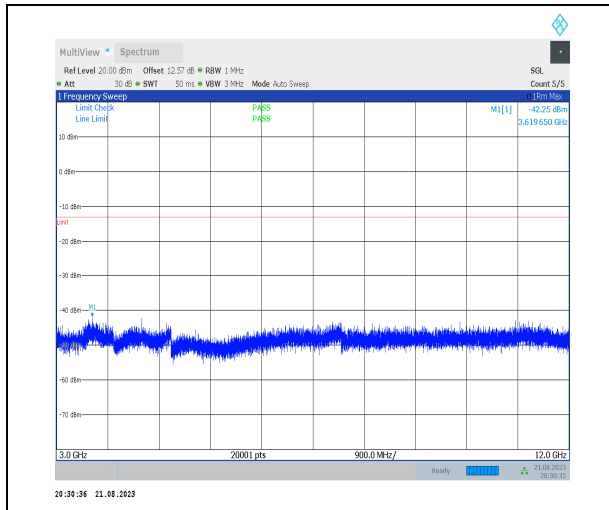


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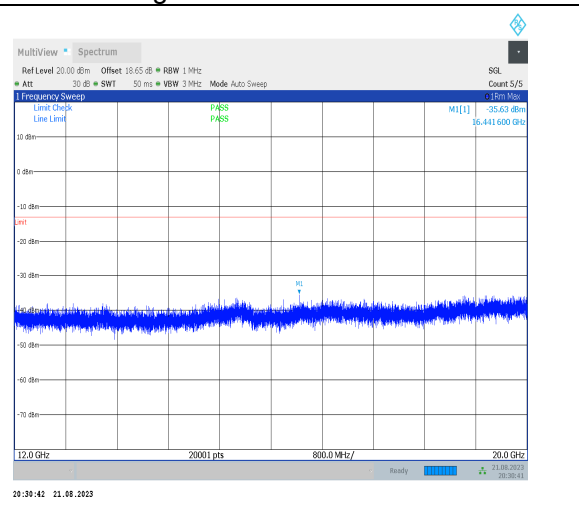


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1-N66-PC3-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_L  
 eff-1@1-3000-12000-Ant3-3619.65--42.25--13-PAS  
 S



1-N66-PC3-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Lef  
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## Field Strength of Spurious Radiation

Test Band = SA Band66\_40MHz\_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.71	-46.28	28.55	-72.27	-13.00	59.27	Horizontal
2	5133.2700	38.91	-45.34	31.72	-69.97	-13.00	56.97	Horizontal
3	6844.3600	39.25	-44.14	34.92	-65.23	-13.00	52.23	Horizontal
4	8555.4500	35.32	-41.46	36.52	-64.88	-13.00	51.88	Horizontal
5	10266.5400	32.14	-39.23	38.33	-64.01	-13.00	51.01	Horizontal
6	11977.6300	26.84	-37.51	38.80	-67.14	-13.00	54.14	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	41.04	-46.28	28.55	-71.94	-13.00	58.94	Vertical
2	5133.2700	39.20	-45.34	31.72	-69.68	-13.00	56.68	Vertical
3	6844.3600	39.29	-44.14	34.92	-65.19	-13.00	52.19	Vertical
4	8555.4500	35.23	-41.46	36.52	-64.97	-13.00	51.97	Vertical
5	10266.5400	31.04	-39.23	38.33	-65.11	-13.00	52.11	Vertical
6	11977.6300	27.10	-37.51	38.80	-66.88	-13.00	53.88	Vertical



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**Test Band = SA Band66\_40MHz\_TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	41.63	-46.27	28.58	-71.31	-13.00	58.31	Horizontal
2	5208.2700	39.86	-45.26	31.90	-68.76	-13.00	55.76	Horizontal
3	6944.3600	38.42	-43.85	35.10	-65.59	-13.00	52.59	Horizontal
4	8680.4500	36.25	-41.62	36.46	-64.17	-13.00	51.17	Horizontal
5	10416.5400	30.78	-38.97	38.41	-65.05	-13.00	52.05	Horizontal
6	12152.6300	28.15	-37.42	38.85	-65.68	-13.00	52.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	42.26	-46.27	28.58	-70.68	-13.00	57.68	Vertical
2	5208.2700	39.14	-45.26	31.90	-69.48	-13.00	56.48	Vertical
3	6944.3600	37.96	-43.85	35.10	-66.05	-13.00	53.05	Vertical
4	8680.4500	35.81	-41.62	36.46	-64.61	-13.00	51.61	Vertical
5	10416.5400	30.53	-38.97	38.41	-65.30	-13.00	52.30	Vertical
6	12152.6300	27.72	-37.42	38.85	-66.11	-13.00	53.11	Vertical



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**Test Band = SA Band66\_40MHz\_TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.1800	41.46	-46.23	28.62	-71.41	-13.00	58.41	Horizontal
2	5283.2700	39.33	-45.12	32.08	-68.97	-13.00	55.97	Horizontal
3	7044.3600	38.10	-43.85	35.33	-65.68	-13.00	52.68	Horizontal
4	8805.4500	35.31	-41.25	36.40	-64.80	-13.00	51.80	Horizontal
5	10566.5400	30.41	-38.58	38.48	-64.95	-13.00	51.95	Horizontal
6	12327.6300	27.62	-37.45	38.90	-66.19	-13.00	53.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.1800	41.72	-46.23	28.62	-71.15	-13.00	58.15	Vertical
2	5283.2700	38.46	-45.12	32.08	-69.84	-13.00	56.84	Vertical
3	7044.3600	38.42	-43.85	35.33	-65.36	-13.00	52.36	Vertical
4	8805.4500	35.16	-41.25	36.40	-64.95	-13.00	51.95	Vertical
5	10566.5400	30.68	-38.58	38.48	-64.68	-13.00	51.68	Vertical
6	12327.6300	27.88	-37.45	38.90	-65.93	-13.00	52.93	Vertical



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Test Band = NSA 30A-N66A\_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	41.29	-46.28	28.55	-71.69	-13.00	58.69	Horizontal
2	5133.2700	39.06	-45.34	31.72	-69.82	-13.00	56.82	Horizontal
3	6844.3600	38.27	-44.14	34.92	-66.21	-13.00	53.21	Horizontal
4	8555.4500	35.66	-41.46	36.52	-64.54	-13.00	51.54	Horizontal
5	10266.5400	31.07	-39.23	38.33	-65.08	-13.00	52.08	Horizontal
6	11977.6300	26.68	-37.51	38.80	-67.30	-13.00	54.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	42.05	-46.28	28.55	-70.93	-13.00	57.93	Vertical
2	5133.2700	38.76	-45.34	31.72	-70.12	-13.00	57.12	Vertical
3	6844.3600	37.97	-44.14	34.92	-66.51	-13.00	53.51	Vertical
4	8555.4500	35.87	-41.46	36.52	-64.33	-13.00	51.33	Vertical
5	10266.5400	31.48	-39.23	38.33	-64.67	-13.00	51.67	Vertical
6	11977.6300	27.68	-37.51	38.80	-66.30	-13.00	53.30	Vertical



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**Test Band = NSA 30A-N66A\_ TM1**  
**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	41.50	-46.27	28.58	-71.44	-13.00	58.44	Horizontal
2	5208.2700	39.27	-45.26	31.90	-69.35	-13.00	56.35	Horizontal
3	6944.3600	38.46	-43.85	35.10	-65.55	-13.00	52.55	Horizontal
4	8680.4500	36.19	-41.62	36.46	-64.23	-13.00	51.23	Horizontal
5	10416.5400	30.67	-38.97	38.41	-65.16	-13.00	52.16	Horizontal
6	12152.6300	27.83	-37.42	38.85	-66.00	-13.00	53.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	41.78	-46.27	28.58	-71.16	-13.00	58.16	Vertical
2	5208.2700	39.34	-45.26	31.90	-69.28	-13.00	56.28	Vertical
3	6944.3600	38.59	-43.85	35.10	-65.42	-13.00	52.42	Vertical
4	8680.4500	35.75	-41.62	36.46	-64.67	-13.00	51.67	Vertical
5	10416.5400	30.71	-38.97	38.41	-65.12	-13.00	52.12	Vertical
6	12152.6300	27.66	-37.42	38.85	-66.17	-13.00	53.17	Vertical



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Test Band = NSA 30A-N66A\_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.1800	41.29	-46.23	28.62	-71.58	-13.00	58.58	Horizontal
2	5283.2700	38.78	-45.12	32.08	-69.52	-13.00	56.52	Horizontal
3	7044.3600	38.07	-43.85	35.33	-65.71	-13.00	52.71	Horizontal
4	8805.4500	32.81	-41.25	36.40	-67.30	-13.00	54.30	Horizontal
5	10566.5400	27.99	-38.58	38.48	-67.37	-13.00	54.37	Horizontal
6	12327.6300	25.03	-37.45	38.90	-68.78	-13.00	55.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.1800	41.38	-46.23	28.62	-71.49	-13.00	58.49	Vertical
2	5283.2700	38.80	-45.12	32.08	-69.50	-13.00	56.50	Vertical
3	7044.3600	38.26	-43.85	35.33	-65.52	-13.00	52.52	Vertical
4	8805.4500	33.69	-41.25	36.40	-66.42	-13.00	53.42	Vertical
5	10566.5400	27.54	-38.58	38.48	-67.82	-13.00	54.82	Vertical
6	12327.6300	24.83	-37.45	38.90	-68.98	-13.00	55.98	Vertical



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Test Band = NRCA\_N26A\_N66A\_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4449	41.95	-45.77	30.18	-68.90	-13.00	55.90	Horizontal
2	5391	40.35	-45.28	32.34	-67.85	-13.00	54.85	Horizontal
3	6513.75	40.50	-44.57	34.32	-65.01	-13.00	52.01	Horizontal
4	8020.5	38.04	-42.15	36.79	-62.58	-13.00	49.58	Horizontal
5	9878.25	34.90	-39.36	37.97	-61.75	-13.00	48.75	Horizontal
6	11274.75	32.15	-37.41	38.73	-61.79	-13.00	48.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.25	41.94	-45.85	28.88	-70.28	-13.00	57.28	Vertical
2	5048.25	41.01	-45.51	31.52	-68.24	-13.00	55.24	Vertical
3	5995.5	40.92	-44.84	32.70	-66.48	-13.00	53.48	Vertical
4	7638.75	38.99	-43.00	36.66	-62.62	-13.00	49.62	Vertical
5	9319.5	36.30	-40.14	36.91	-62.20	-13.00	49.20	Vertical
6	11446.5	31.60	-37.34	38.74	-62.26	-13.00	49.26	Vertical



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Test Band = NRCA\_N26A\_N66A\_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4122	42.01	-45.76	29.39	-69.62	-13.00	56.62	Horizontal
2	4875	41.77	-45.53	31.13	-67.90	-13.00	54.90	Horizontal
3	6027	40.30	-44.73	32.79	-66.90	-13.00	53.90	Horizontal
4	6812.25	40.50	-44.16	34.86	-64.06	-13.00	51.06	Horizontal
5	9126.75	35.85	-40.32	36.54	-63.19	-13.00	50.19	Horizontal
6	12217.5	30.84	-37.48	38.87	-63.03	-13.00	50.03	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4110.75	41.85	-45.76	29.37	-69.81	-13.00	56.81	Vertical
2	5048.25	41.28	-45.51	31.52	-67.97	-13.00	54.97	Vertical
3	6623.25	40.11	-44.22	34.52	-64.85	-13.00	51.85	Vertical
4	8028	37.96	-42.07	36.79	-62.59	-13.00	49.59	Vertical
5	11248.5	32.10	-37.40	38.72	-61.84	-13.00	48.84	Vertical
6	13321.5	29.88	-36.76	39.68	-62.46	-13.00	49.46	Vertical



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Test Band = NRCA\_N26A\_N66A\_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4467.75	42.18	-45.75	30.22	-68.60	-13.00	55.60	Horizontal
2	5700	40.81	-44.85	32.64	-66.66	-13.00	53.66	Horizontal
3	7006.5	39.70	-43.59	35.22	-63.93	-13.00	50.93	Horizontal
4	8697	37.63	-41.68	36.45	-62.86	-13.00	49.86	Horizontal
5	11181	32.09	-37.50	38.72	-61.95	-13.00	48.95	Horizontal
6	13717.5	30.62	-36.20	40.39	-60.45	-13.00	47.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3977.25	42.11	-46.09	29.08	-70.17	-13.00	57.17	Vertical
2	5946	40.78	-44.91	32.69	-66.70	-13.00	53.70	Vertical
3	7444.5	39.59	-43.29	36.44	-62.52	-13.00	49.52	Vertical
4	9600.75	34.66	-39.67	37.44	-62.83	-13.00	49.83	Vertical
5	12720.75	30.60	-36.71	39.02	-62.35	-13.00	49.35	Vertical
6	15153.75	28.92	-34.40	40.98	-59.76	-13.00	46.76	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) - Pre-amplifier (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	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.400000	-0.001375	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-0.700000	-0.000401	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.300000	-0.000172	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VH	NT	1.300000	0.000745	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VN	NT	3.700000	0.002120	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VL	NT	5.000000	0.002865	PASS



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Wireless Laboratory

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**Frequency Error VS. Temperature**

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-0.100000	-0.000057	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	1.700000	0.000974	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.000000	-0.001719	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.400000	-0.001375	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.300000	-0.001891	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-0.200000	-0.000115	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	0.900000	0.000516	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.800000	-0.000458	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	1.900000	0.001089	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-30	1.500000	0.000860	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-20	1.700000	0.000974	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-10	0.600000	0.000344	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	0	2.600000	0.001490	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	10	1.800000	0.001032	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	20	2.300000	0.001318	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	30	3.500000	0.002006	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	40	1.000000	0.000573	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	50	0.800000	0.000458	PASS

---End of Attachment---



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