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Appendix B.18

NR Band n48



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT7

Band	SCS	Band width	Modulation	Channel	RB Config	Power (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
N48	30	10	DFT-QPSK	L	Inner_1RB_Left	23.98	21.48	23.00	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Left	23.00	20.50	23.00	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Left	24.09	21.59	23.00	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Left	23.15	20.65	23.00	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Left	23.77	21.27	23.00	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Left	22.85	20.35	23.00	PASS
N48	30	15	DFT-QPSK	L	Inner_1RB_Left	24.17	21.67	23.00	PASS
N48	30	15	DFT-16QAM	L	Inner_1RB_Left	23.17	20.67	23.00	PASS
N48	30	15	DFT-QPSK	M	Inner_1RB_Left	24.29	21.79	23.00	PASS
N48	30	15	DFT-16QAM	M	Inner_1RB_Left	23.34	20.84	23.00	PASS
N48	30	15	DFT-QPSK	H	Inner_1RB_Left	24.00	21.50	23.00	PASS
N48	30	15	DFT-16QAM	H	Inner_1RB_Left	23.02	20.52	23.00	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Left	24.17	21.67	23.00	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Left	23.22	20.72	23.00	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Left	24.39	21.89	23.00	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Left	23.34	20.84	23.00	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Left	23.95	21.45	23.00	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Left	23.02	20.52	23.00	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Left	24.23	21.73	23.00	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Left	23.23	20.73	23.00	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Left	24.40	21.90	23.00	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Left	23.43	20.93	23.00	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Left	24.03	21.53	23.00	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Left	23.10	20.60	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	24.05	21.55	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	24.00	21.50	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	23.51	21.01	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Left	24.11	21.61	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Right	23.95	21.45	23.00	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	23.00	20.50	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Left	23.04	20.54	23.00	PASS



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N48	30	40	DFT-16QAM	L	Inner_1RB_Right	23.04	20.54	23.00	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	21.98	19.48	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Left	21.46	18.96	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Right	21.52	19.02	23.00	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	21.52	19.02	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Left	19.28	16.78	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Right	19.29	16.79	23.00	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	19.49	16.99	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	24.15	21.65	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	24.00	21.50	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	23.59	21.09	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Left	24.16	21.66	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Right	23.95	21.45	23.00	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	23.07	20.57	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Left	23.27	20.77	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Right	23.10	20.60	23.00	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	22.10	19.60	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Left	21.58	19.08	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Right	21.53	19.03	23.00	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	21.60	19.10	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Left	19.54	17.04	23.00	PASS
N48	30	40	DFT-256QAM	M	Inner_1RB_Right	19.33	16.83	23.00	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	19.56	17.06	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Left	23.91	21.41	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Inner_1RB_Right	23.82	21.32	23.00	PASS
N48	30	40	DFT-PI2BPSK	H	Outer_Full	23.29	20.79	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Left	23.92	21.42	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Right	23.80	21.30	23.00	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	22.80	20.30	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Left	22.89	20.39	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Right	22.87	20.37	23.00	PASS
N48	30	40	DFT-16QAM	H	Outer_Full	21.82	19.32	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Left	21.28	18.78	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Right	21.28	18.78	23.00	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	21.28	18.78	23.00	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Left	19.18	16.68	23.00	PASS
N48	30	40	DFT-256QAM	H	Inner_1RB_Right	19.21	16.71	23.00	PASS



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N48	30	40	DFT-256QAM	H	Outer_Full	19.26	16.76	23.00	PASS
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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	30	40	DFT-256QAM	L	Outer_Full	6.43	≤13	PASS
N48	30	40	CP-256QAM	L	Outer_Full	6.44	≤13	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	6.42	≤13	PASS
N48	30	40	CP-256QAM	M	Outer_Full	6.43	≤13	PASS
N48	30	40	DFT-256QAM	H	Outer_Full	6.43	≤13	PASS
N48	30	40	CP-256QAM	H	Outer_Full	6.42	≤13	PASS



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Test Graphs



1-N48-PC3-30-40-L-1-DFT-256QAM-Outer_Full-100
@0-Ant7-6.43-100%-0.00-6.43-PASS-≤13

1-N48-PC3-30-40-L-2-CP-256QAM-Outer_Full-106
@0-Ant7-6.44-100%-0.00-6.44-PASS-≤13



1-N48-PC3-30-40-M-1-DFT-256QAM-Outer_Full-100
@0-Ant7-6.42-100%-0.00-6.42-PASS-≤13

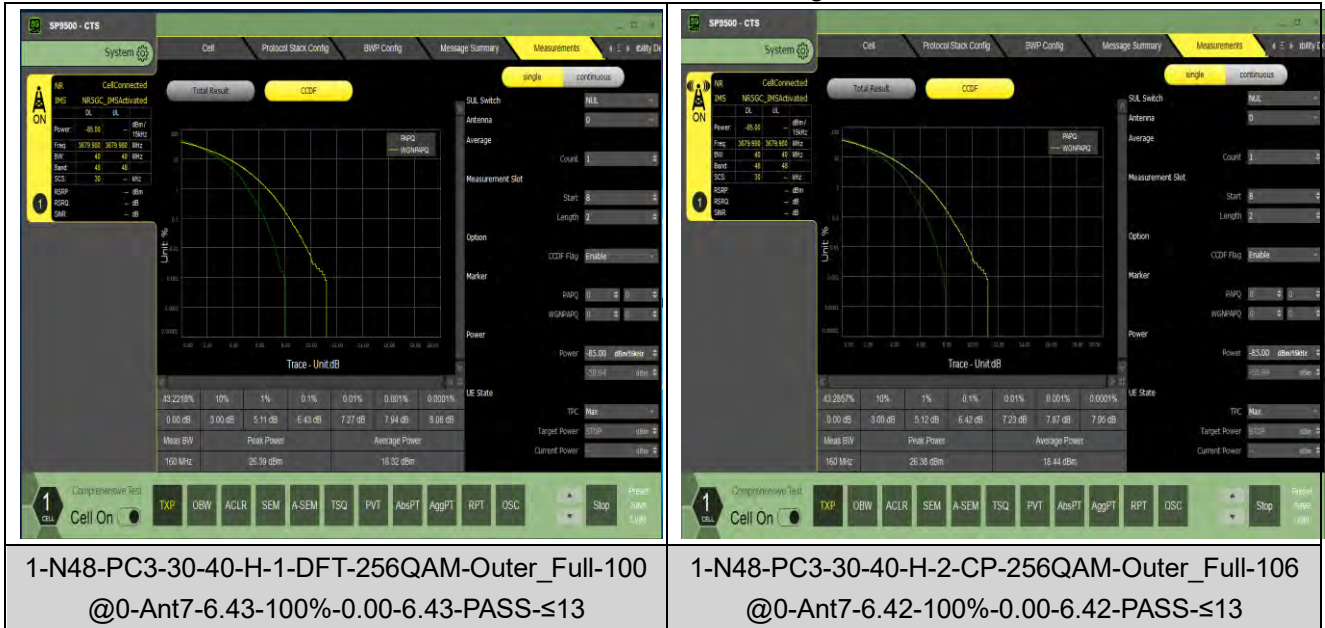
1-N48-PC3-30-40-M-2-CP-256QAM-Outer_Full-106
@0-Ant7-6.43-100%-0.00-6.43-PASS-≤13



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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
N48	30	10	DFT-QPSK	M	Outer_Full	8.595	9.600	PASS
N48	30	10	DFT-PI2BPSK	M	Outer_Full	8.586	9.620	PASS
N48	30	10	DFT-16QAM	M	Outer_Full	8.616	9.520	PASS
N48	30	10	DFT-64QAM	M	Outer_Full	8.56	9.240	PASS
N48	30	10	DFT-256QAM	M	Outer_Full	8.584	9.420	PASS
N48	30	10	CP-QPSK	M	Outer_Full	8.567	9.740	PASS
N48	30	10	CP-16QAM	M	Outer_Full	8.559	9.200	PASS
N48	30	10	CP-64QAM	M	Outer_Full	8.588	9.820	PASS
N48	30	10	CP-256QAM	M	Outer_Full	8.578	9.340	PASS
N48	30	15	DFT-QPSK	M	Outer_Full	12.889	14.340	PASS
N48	30	15	DFT-PI2BPSK	M	Outer_Full	12.864	13.890	PASS
N48	30	15	DFT-16QAM	M	Outer_Full	12.88	13.950	PASS
N48	30	15	DFT-64QAM	M	Outer_Full	12.889	14.310	PASS
N48	30	15	DFT-256QAM	M	Outer_Full	12.84	14.130	PASS
N48	30	15	CP-QPSK	M	Outer_Full	13.597	14.880	PASS
N48	30	15	CP-16QAM	M	Outer_Full	13.611	15.090	PASS
N48	30	15	CP-64QAM	M	Outer_Full	13.584	14.730	PASS
N48	30	15	CP-256QAM	M	Outer_Full	13.596	14.790	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.886	18.880	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.76	18.920	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.838	19.000	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.736	19.120	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.785	19.000	PASS
N48	30	20	CP-QPSK	M	Outer_Full	18.218	19.600	PASS
N48	30	20	CP-16QAM	M	Outer_Full	18.26	19.360	PASS
N48	30	20	CP-64QAM	M	Outer_Full	18.172	19.680	PASS
N48	30	20	CP-256QAM	M	Outer_Full	18.198	19.440	PASS
N48	30	30	DFT-QPSK	M	Outer_Full	26.754	27.960	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	26.747	28.380	PASS
N48	30	30	DFT-16QAM	M	Outer_Full	26.84	28.260	PASS



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N48	30	30	DFT-64QAM	M	Outer_Full	26.801	28.140	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	26.687	27.780	PASS
N48	30	30	CP-QPSK	M	Outer_Full	27.852	29.280	PASS
N48	30	30	CP-16QAM	M	Outer_Full	27.74	29.460	PASS
N48	30	30	CP-64QAM	M	Outer_Full	27.808	29.340	PASS
N48	30	30	CP-256QAM	M	Outer_Full	27.814	29.040	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.712	37.360	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.75	37.680	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.733	37.760	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.716	37.600	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.618	37.440	PASS
N48	30	40	CP-QPSK	M	Outer_Full	37.803	40.000	PASS
N48	30	40	CP-16QAM	M	Outer_Full	37.808	39.600	PASS
N48	30	40	CP-64QAM	M	Outer_Full	37.747	39.760	PASS
N48	30	40	CP-256QAM	M	Outer_Full	37.847	39.360	PASS

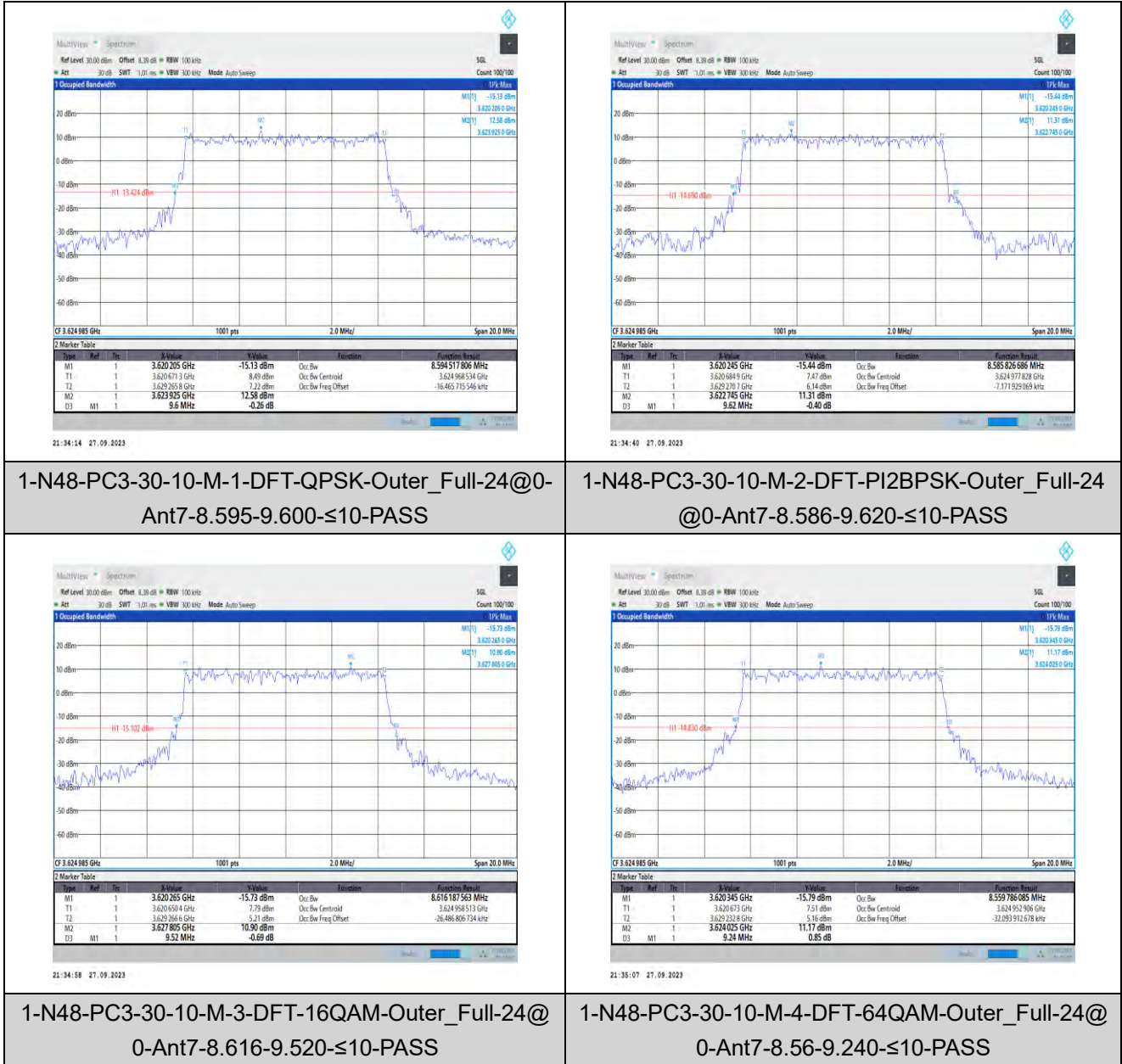


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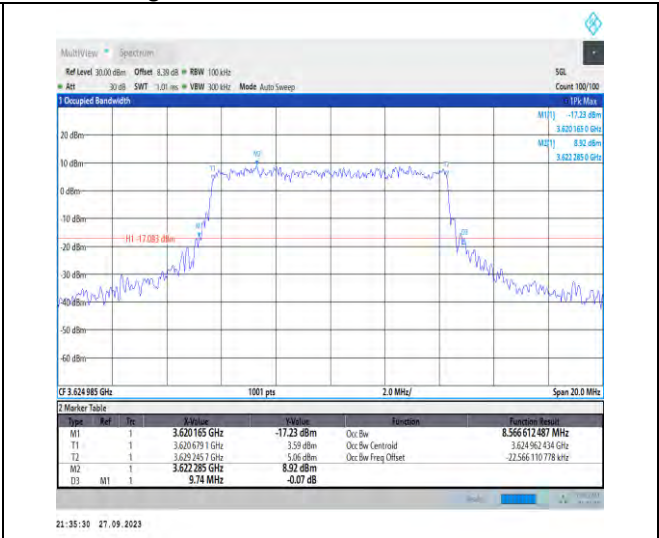
Test Graphs



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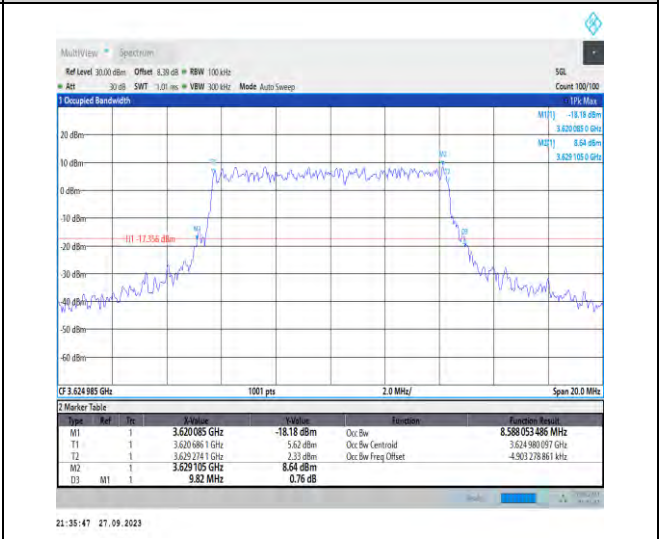
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1-N48-PC3-30-10-M-5-DFT-256QAM-Outer_Full-24@0-Ant7-8.584-9.420-≤10-PASS

1-N48-PC3-30-10-M-6-CP-QPSK-Outer_Full-24@0-Ant7-8.567-9.740-≤10-PASS



1-N48-PC3-30-10-M-7-CP-16QAM-Outer_Full-24@0-Ant7-8.559-9.200-≤10-PASS

1-N48-PC3-30-10-M-8-CP-64QAM-Outer_Full-24@0-Ant7-8.588-9.820-≤10-PASS

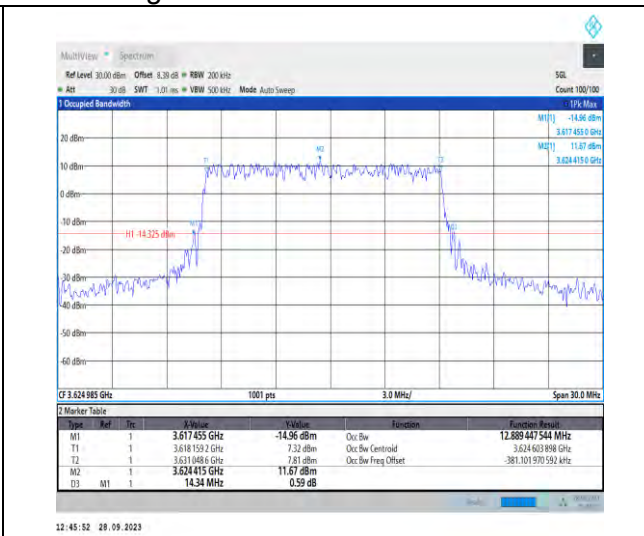


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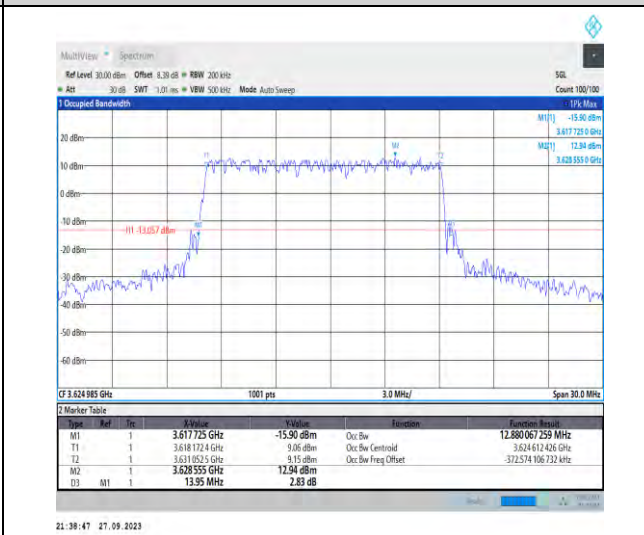
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 0-Ant7-8.578-9.340-≤10-PASS



1-N48-PC3-30-15-M-1-DFT-QPSK-Outer_Full-36@
 0-Ant7-12.889-14.340-≤15-PASS



1-N48-PC3-30-15-M-2-DFT-PI2BPSK-Outer_Full-36@
 0-Ant7-12.864-13.890-≤15-PASS

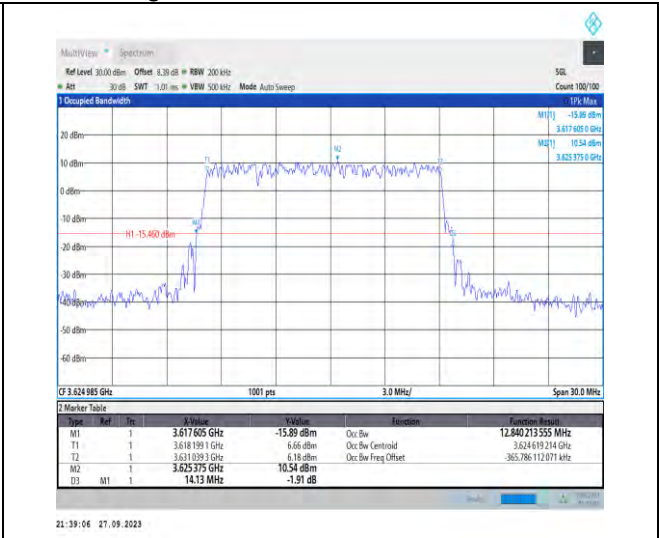
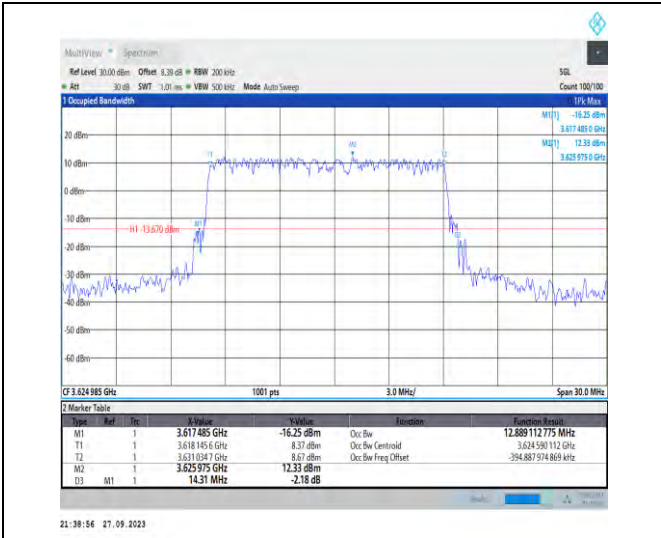


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 0-Ant7-12.88-13.950-≤15-PASS



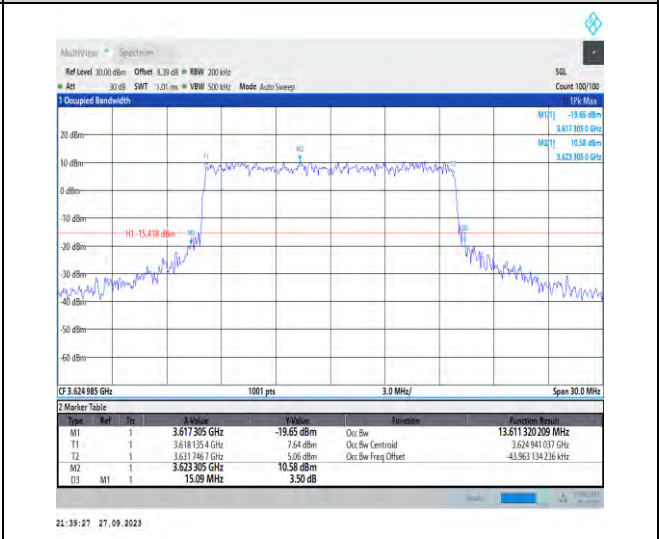
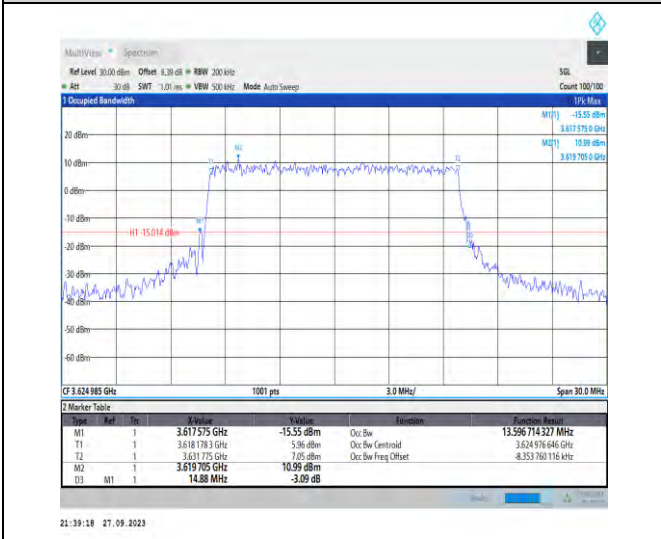
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1-N48-PC3-30-15-M-4-DFT-64QAM-Outer_Full-36@0-Ant7-12.889-14.310-≤15-PASS

1-N48-PC3-30-15-M-5-DFT-256QAM-Outer_Full-36@0-Ant7-12.84-14.130-≤15-PASS



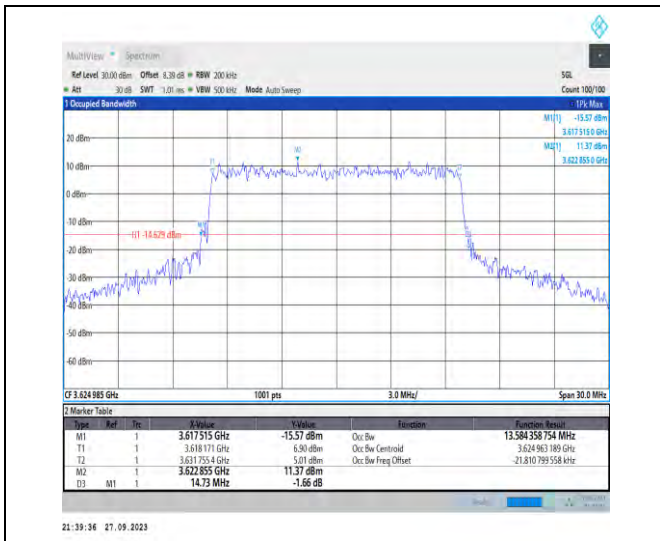
1-N48-PC3-30-15-M-6-CP-QPSK-Outer_Full-38@0-Ant7-13.597-14.880-≤15-PASS

1-N48-PC3-30-15-M-7-CP-16QAM-Outer_Full-38@0-Ant7-13.611-15.090-≤15-PASS



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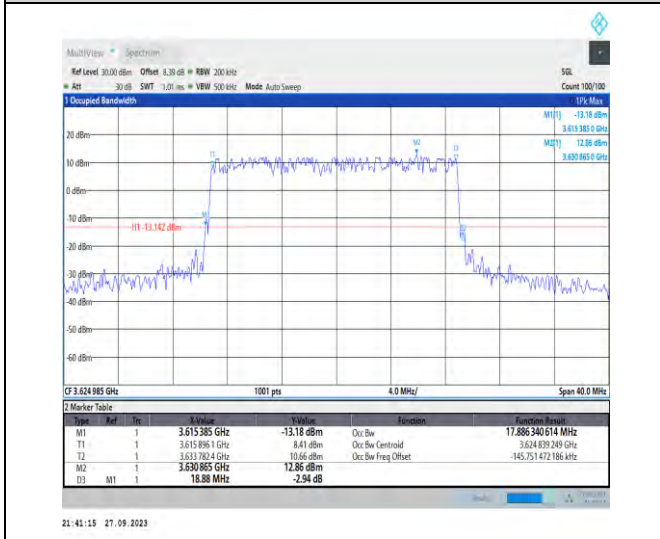
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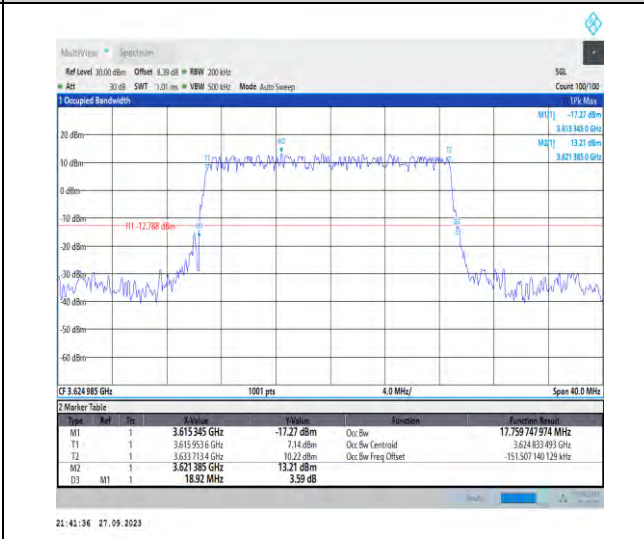
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1-N48-PC3-30-15-M-9-CP-256QAM-Outer_Full-38@0
 -Ant7-13.596-14.790-≤15-PASS



1-N48-PC3-30-20-M-1-DFT-QPSK-Outer_Full-50@0-
 Ant7-17.886-18.880-≤20-PASS

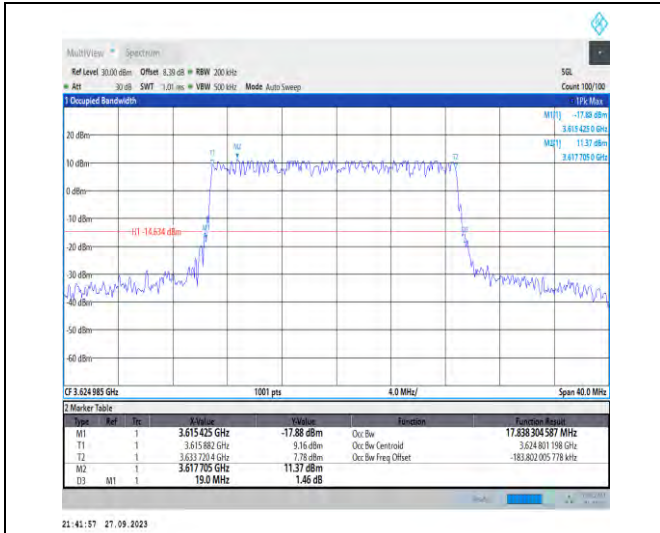


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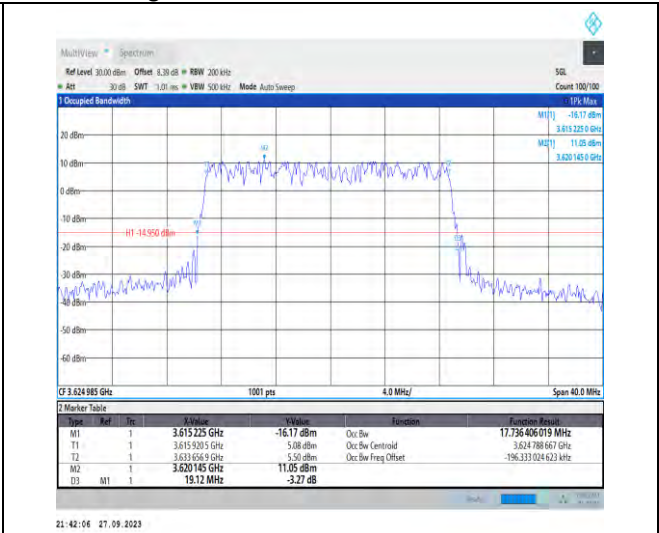


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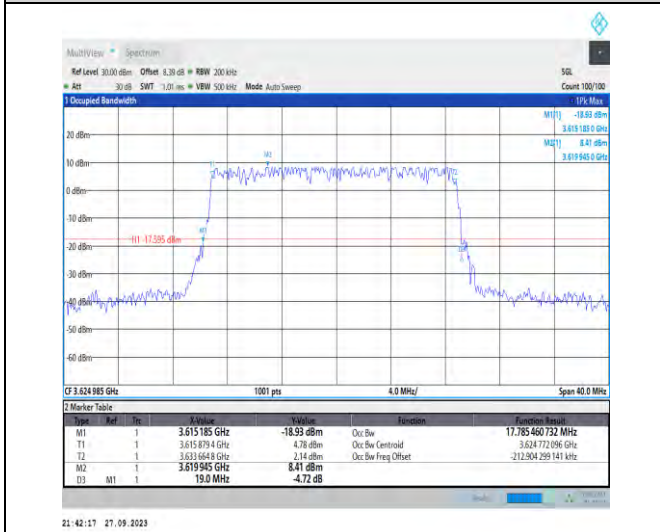
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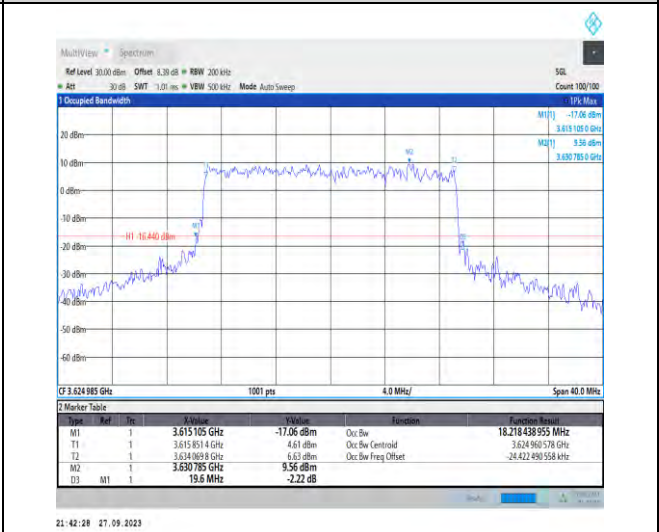
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1-N48-PC3-30-20-M-4-DFT-64QAM-Outer_Full-50@0-Ant7-17.736-19.120-≤20-PASS



1-N48-PC3-30-20-M-5-DFT-256QAM-Outer_Full-50@0-Ant7-17.785-19.000-≤20-PASS



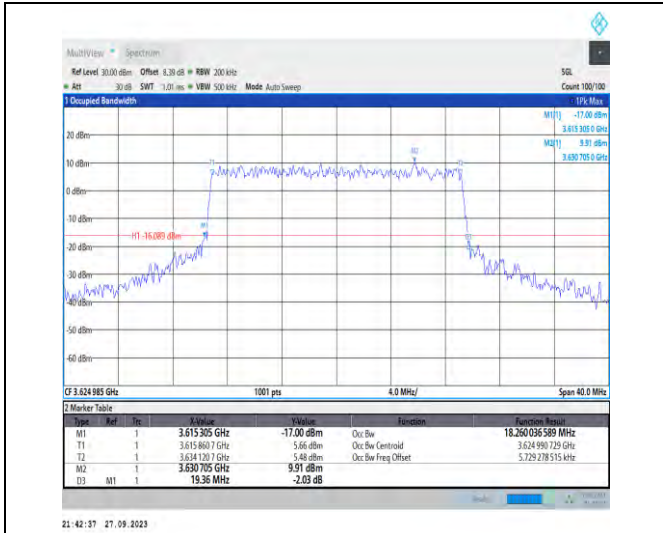
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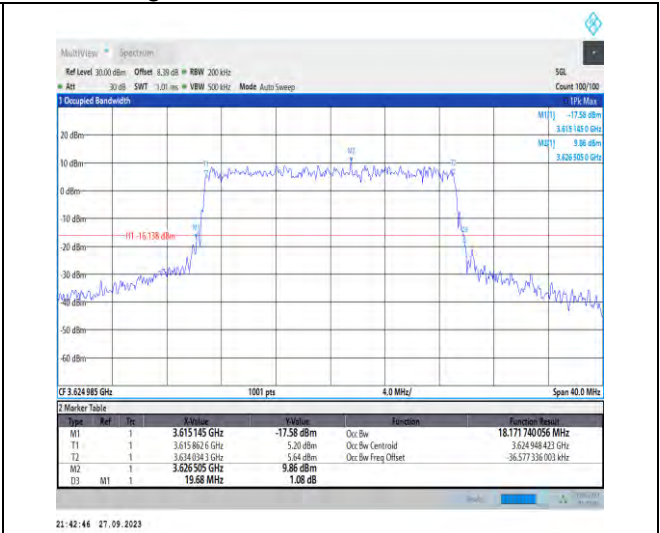
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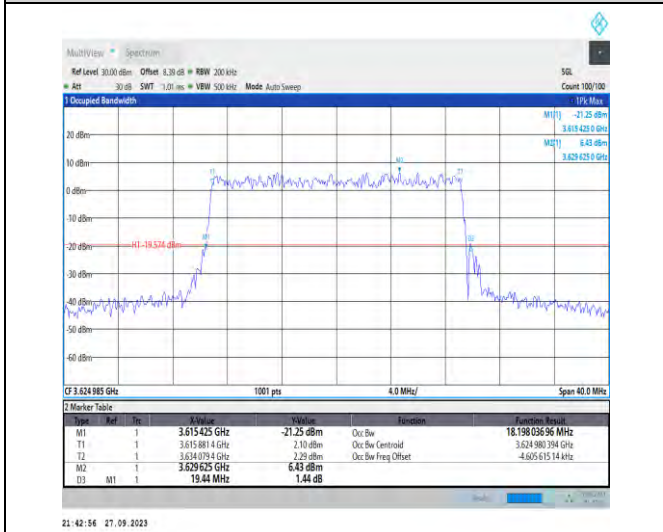
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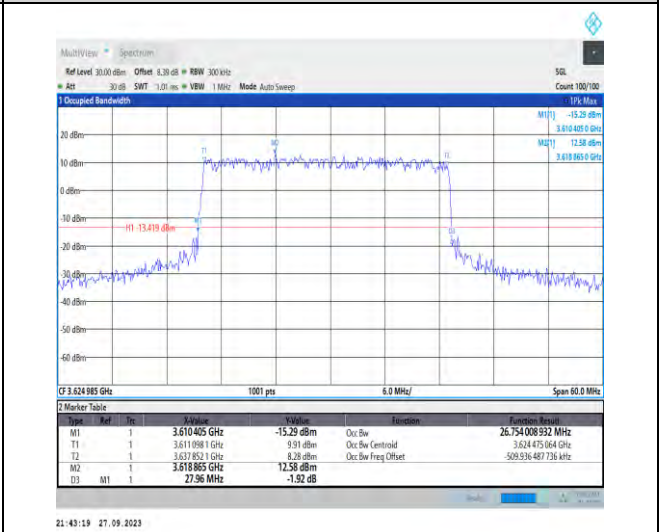
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-Ant7-18.172-19.680-<20-PASS



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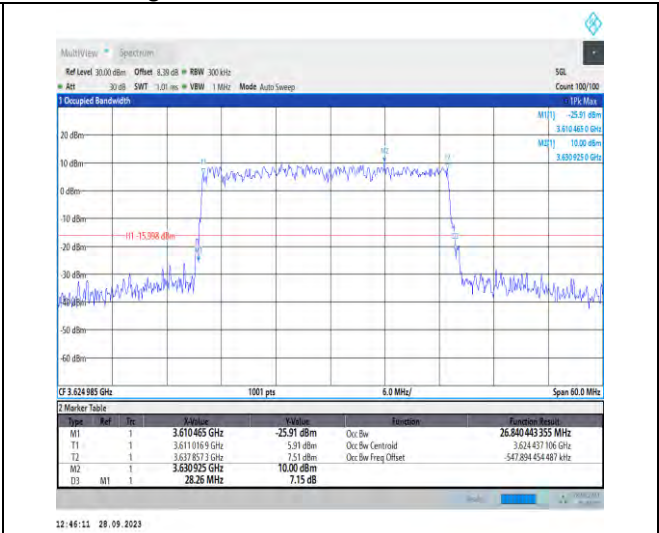


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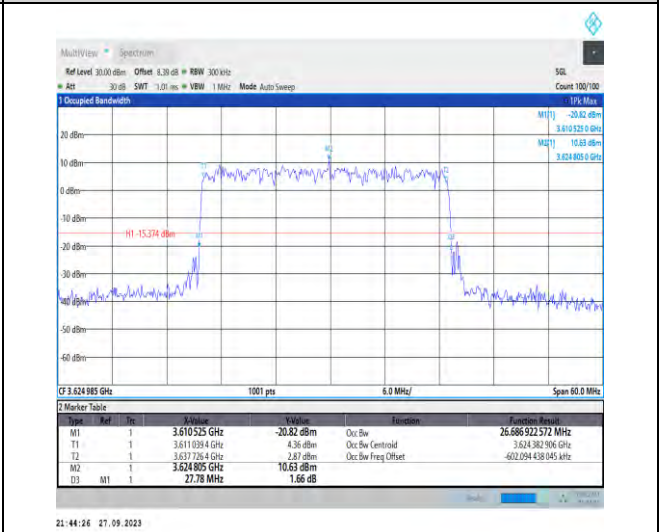
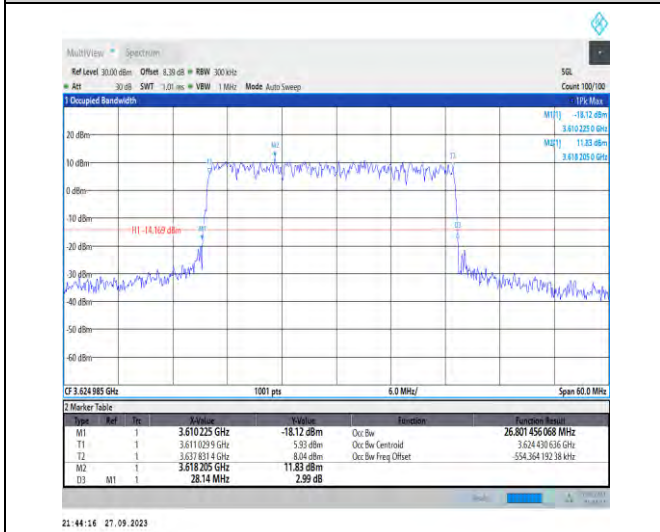
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1-N48-PC3-30-30-M-2-DFT-PI2BPSK-Outer_Full-75 @0-Ant7-26.747-28.380-≤30-PASS

1-N48-PC3-30-30-M-3-DFT-16QAM-Outer_Full-75 @0-Ant7-26.84-28.260-≤30-PASS



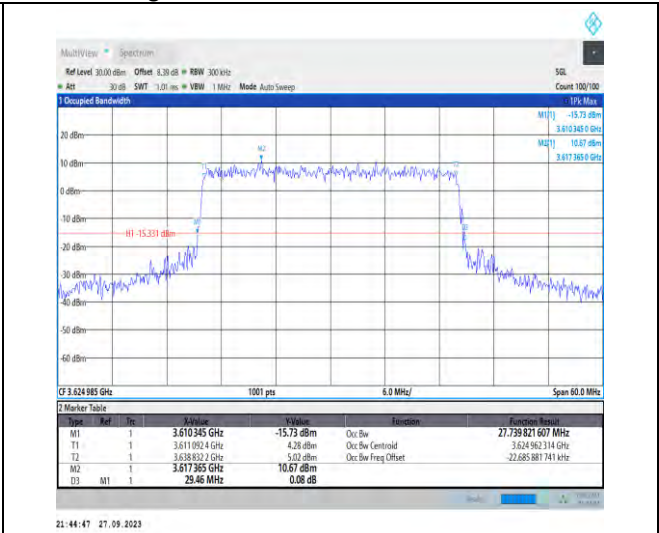
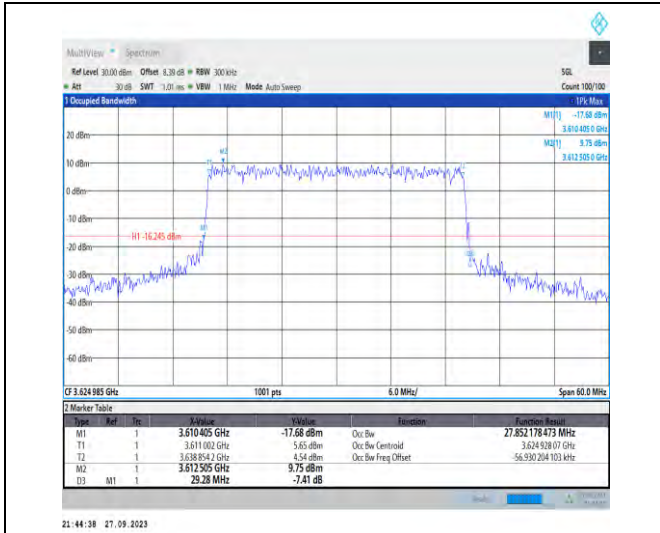
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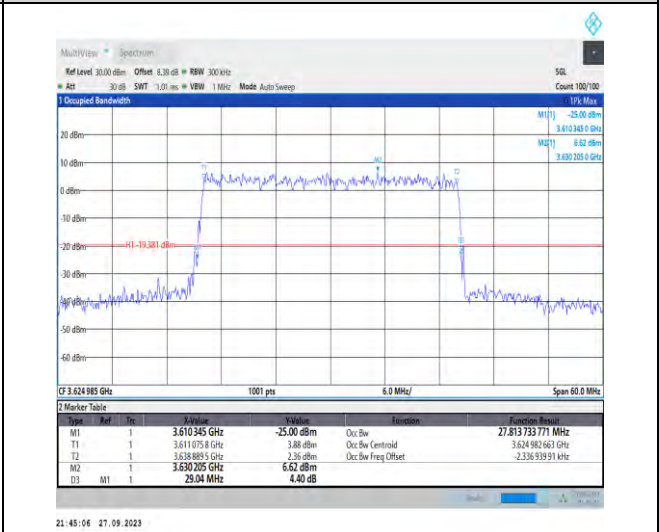
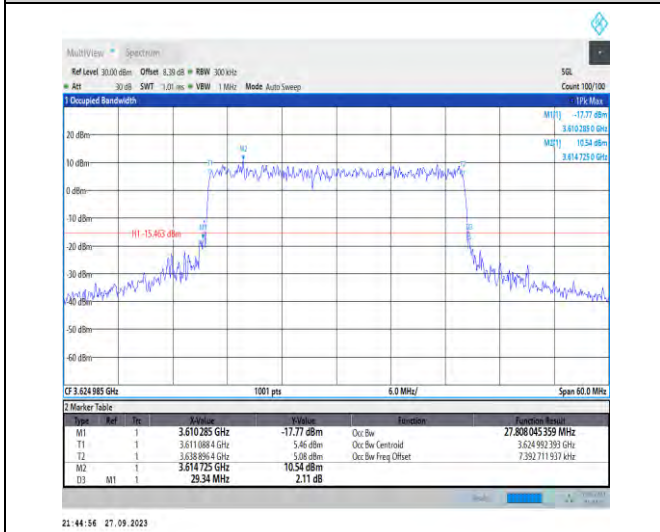
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1-N48-PC3-30-30-M-6-CP-QPSK-Outer_Full-78@0-Ant7-27.852-29.280-≤30-PASS

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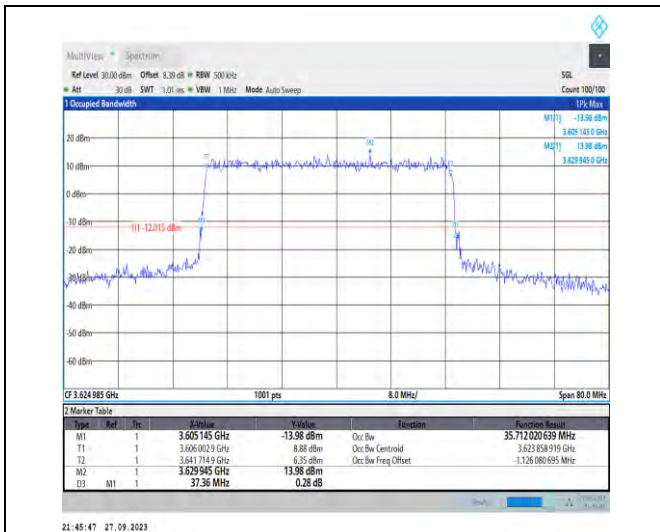
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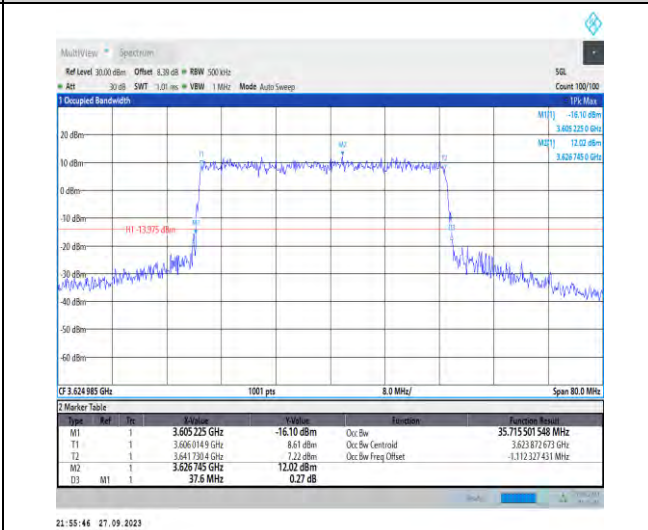
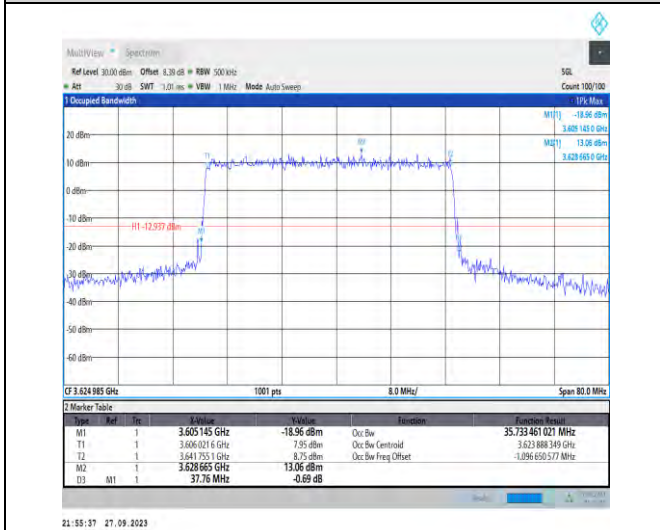
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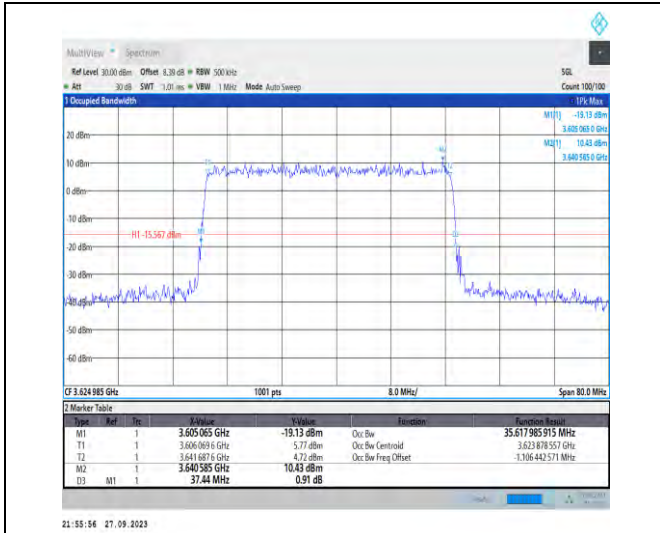
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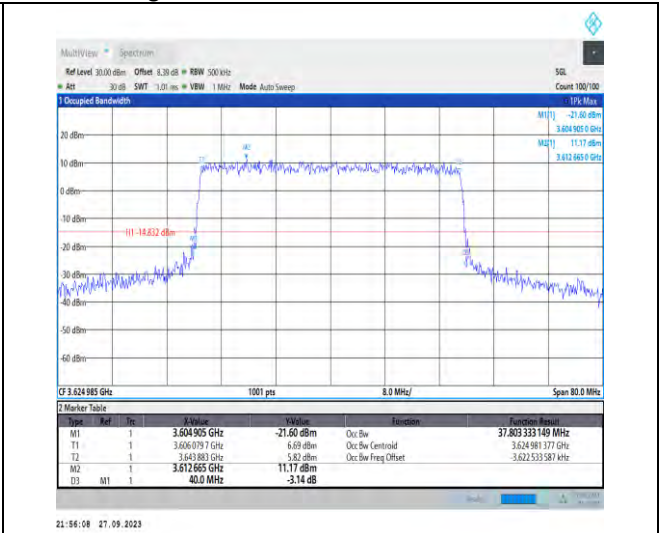


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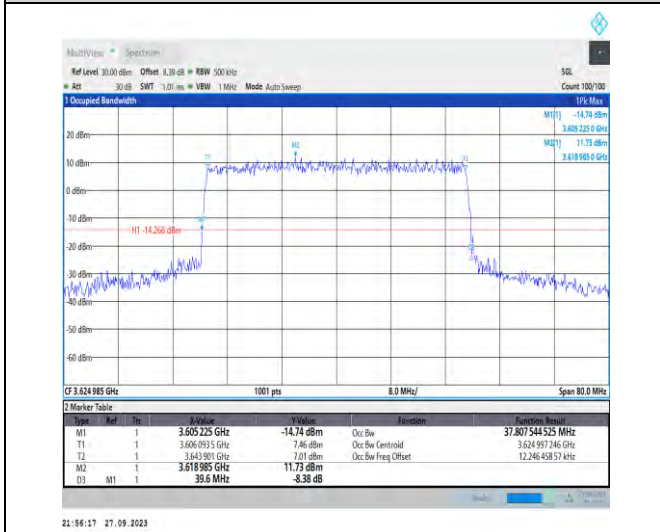
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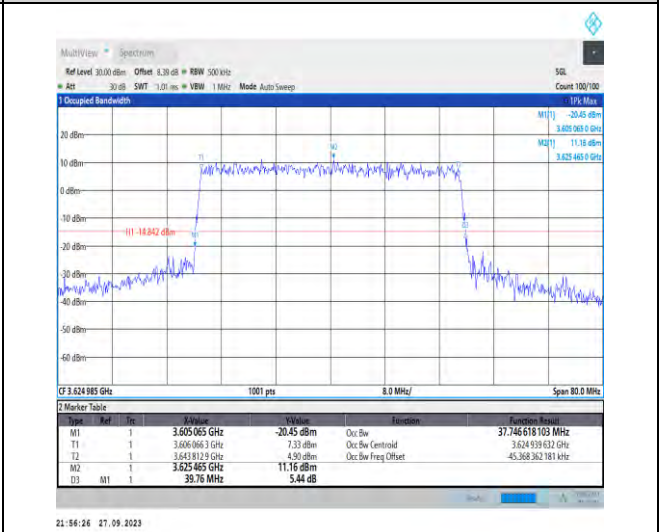
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1-N48-PC3-30-40-M-7-CP-16QAM-Outer_Full-106@0-Ant7-37.808-39.600-≤40-PASS

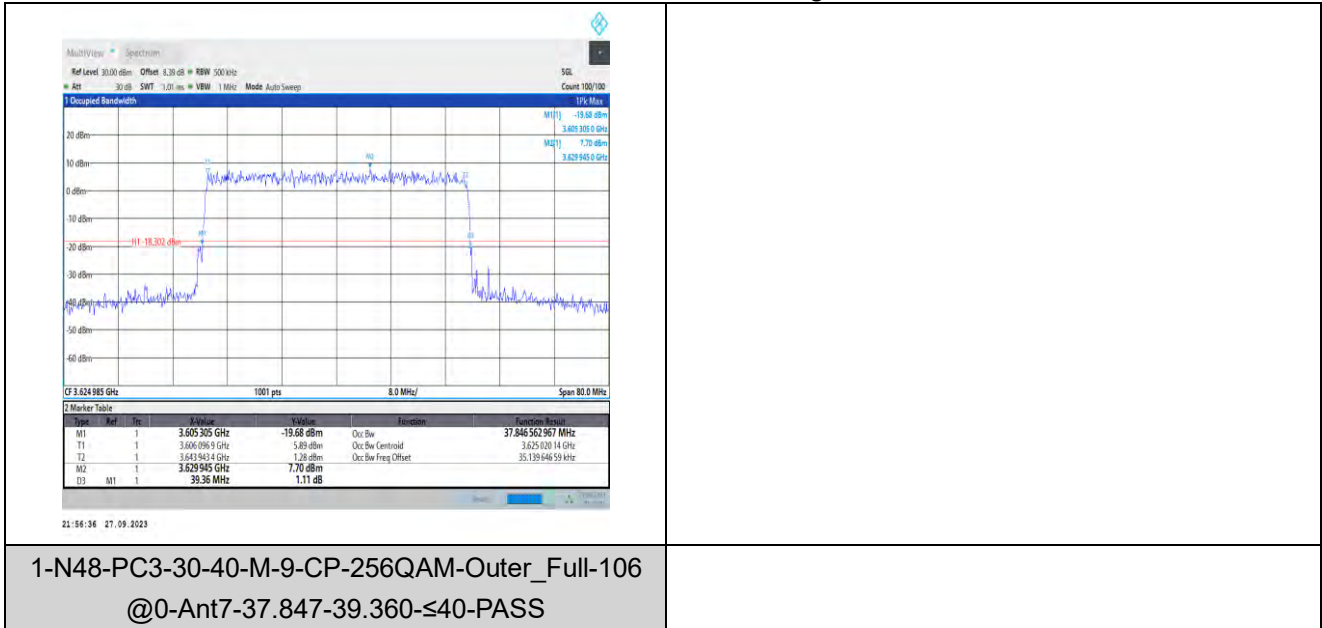


1-N48-PC3-30-40-M-8-CP-64QAM-Outer_Full-106@0-Ant7-37.747-39.760-≤40-PASS



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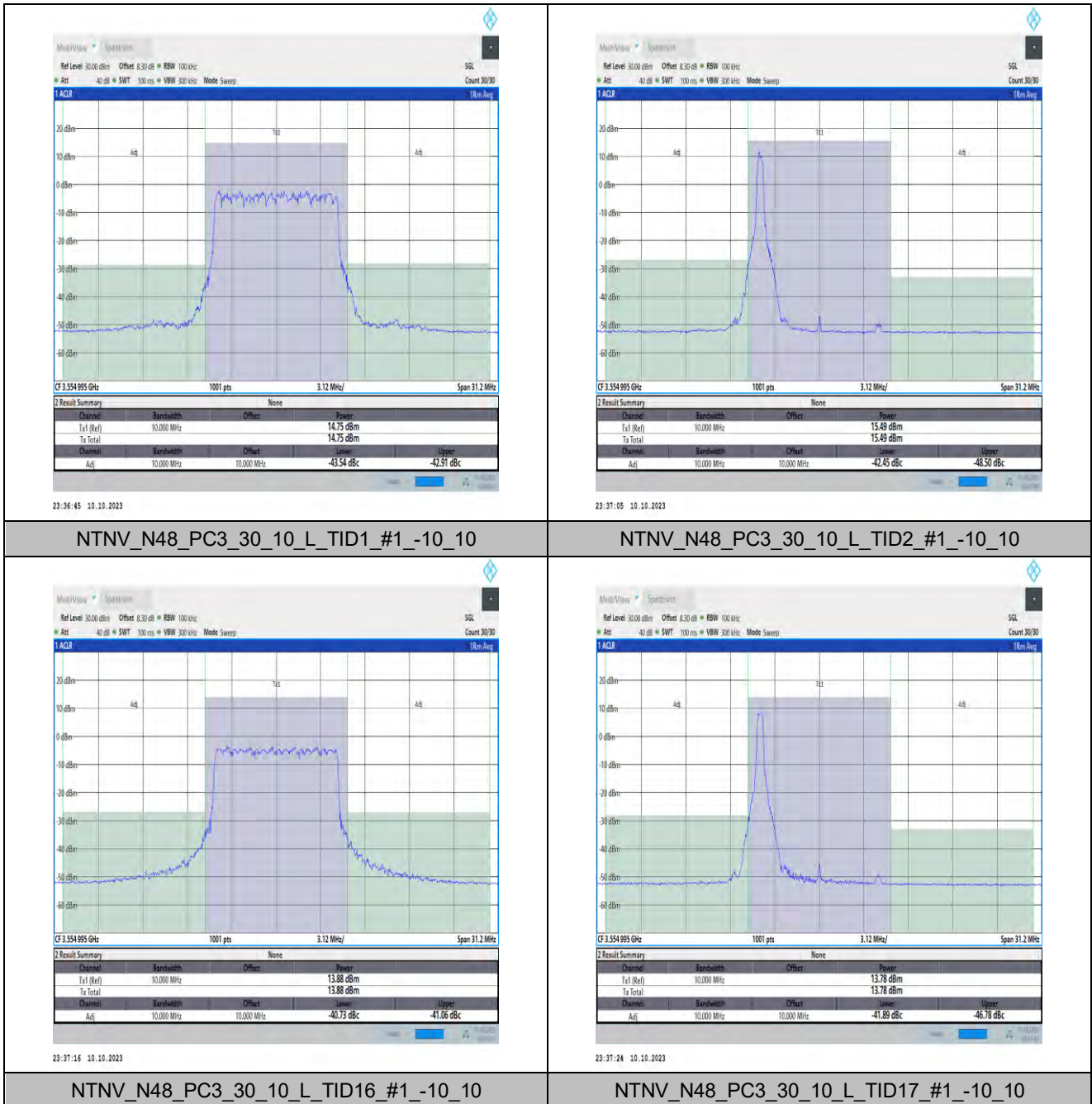


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Test Graphs



NTNV_N48_PC3_30_10_L_TID1_#1_-10_10

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NTNV_N48_PC3_30_10_L_TID16_#1_-10_10

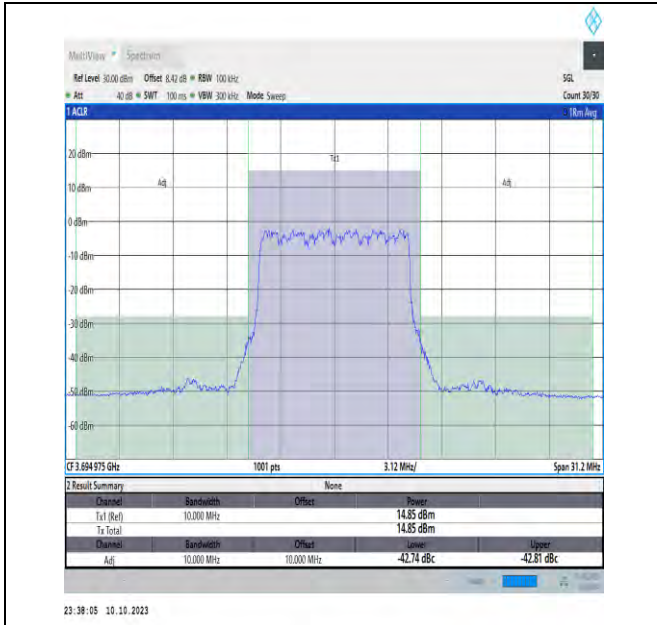
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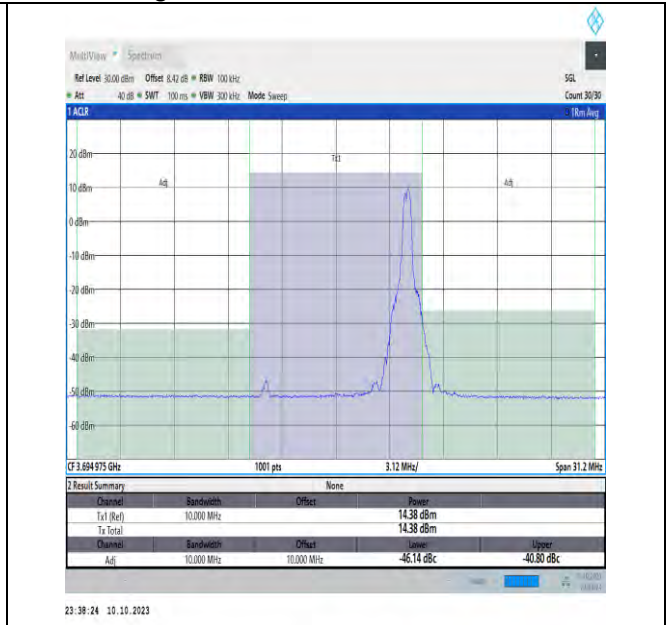
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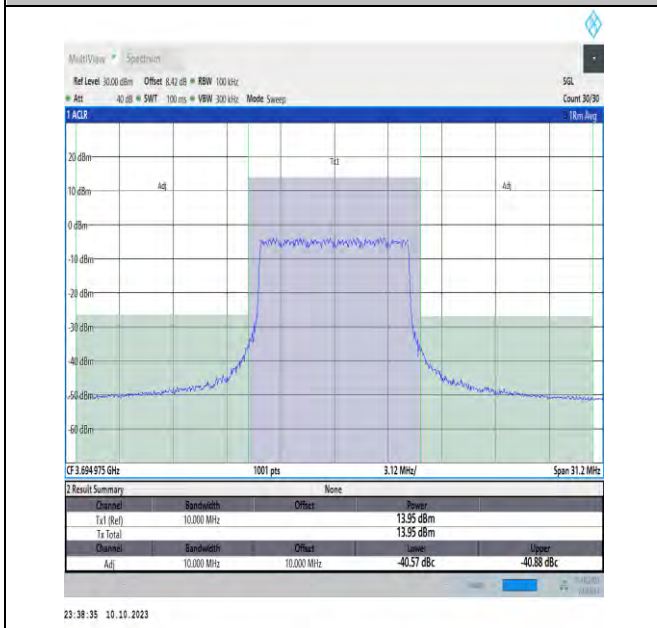
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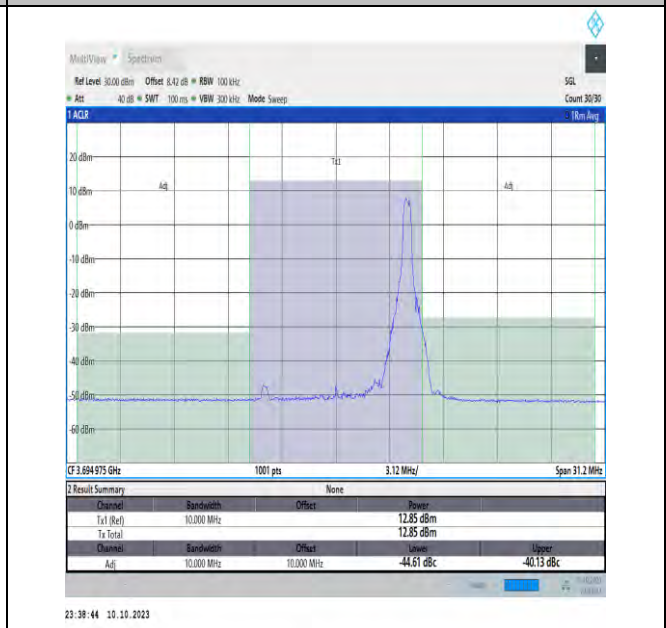
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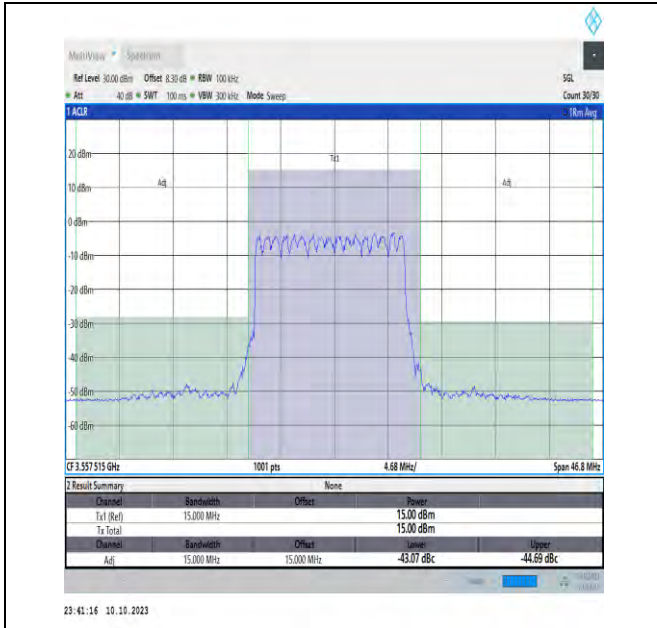


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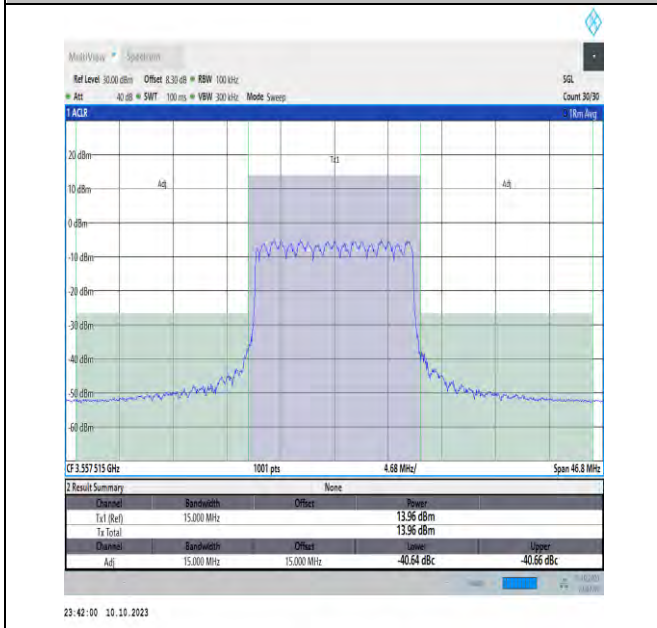
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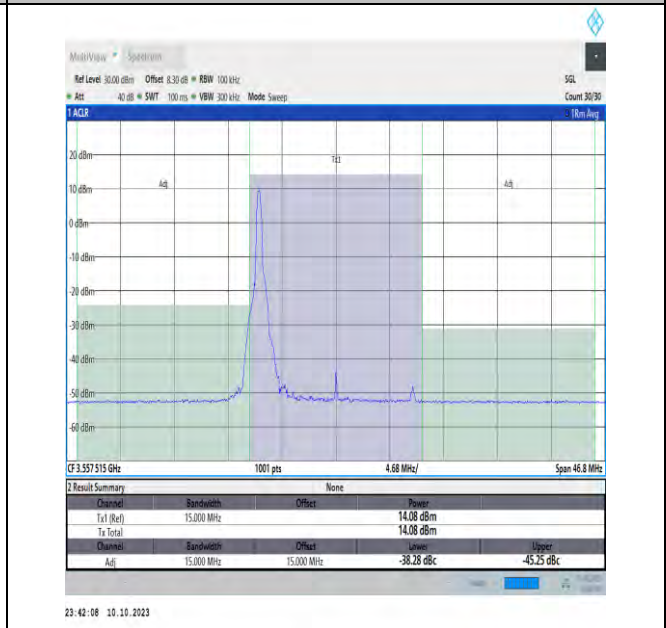
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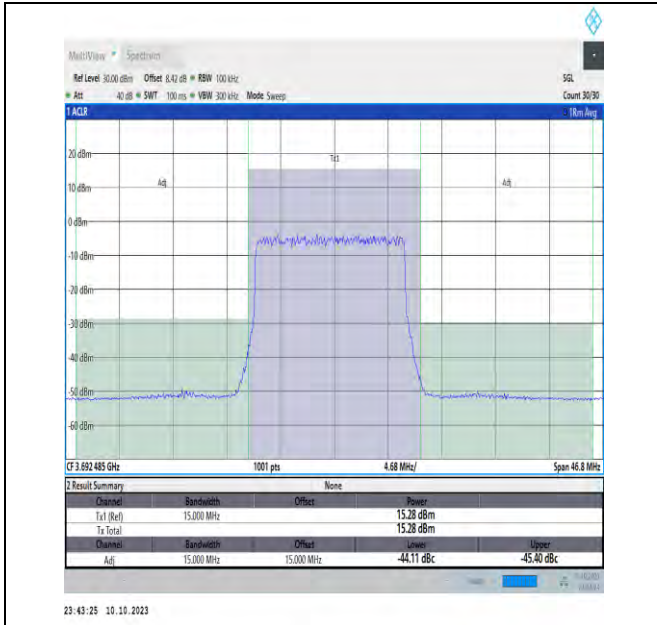


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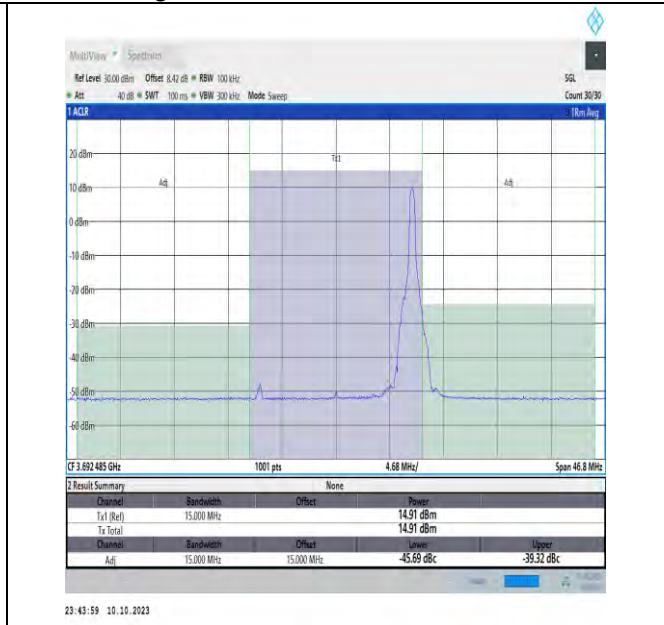


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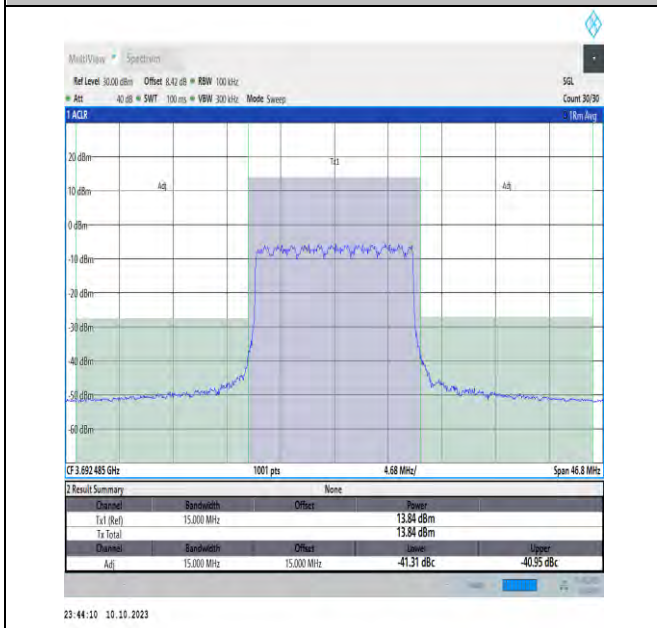
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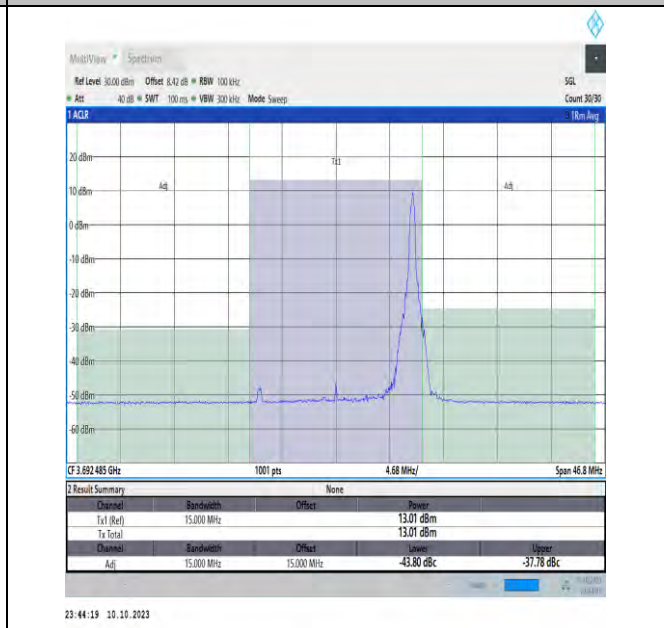
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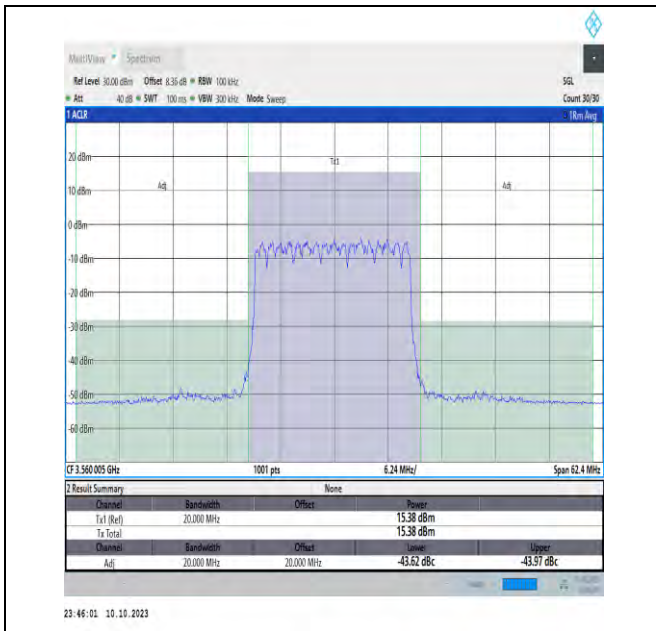


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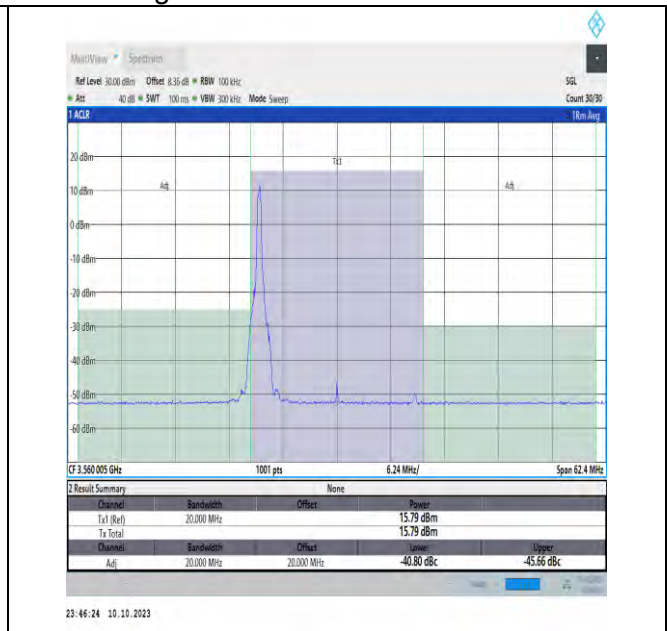


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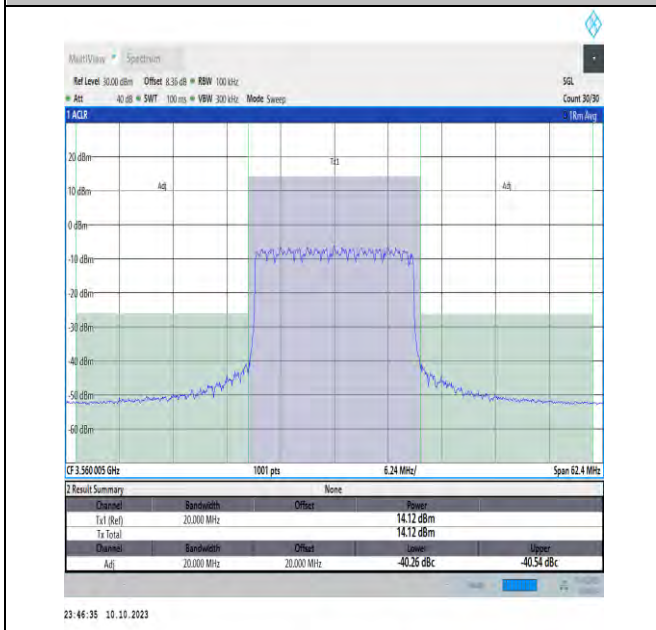
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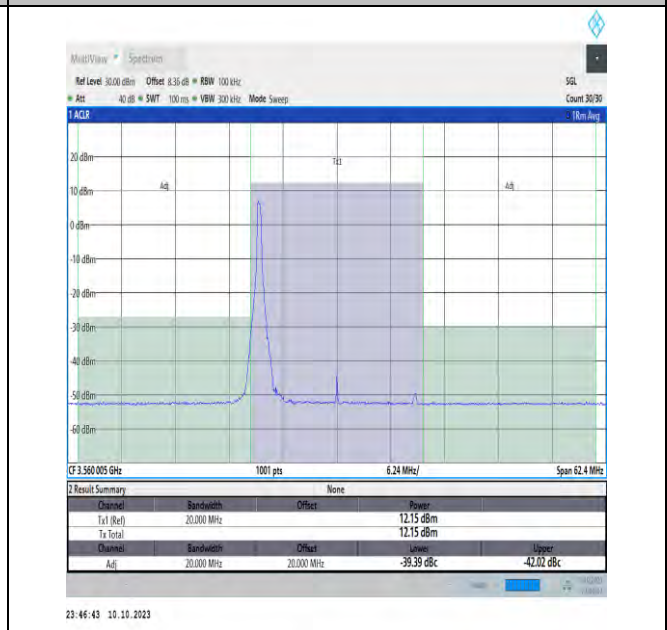
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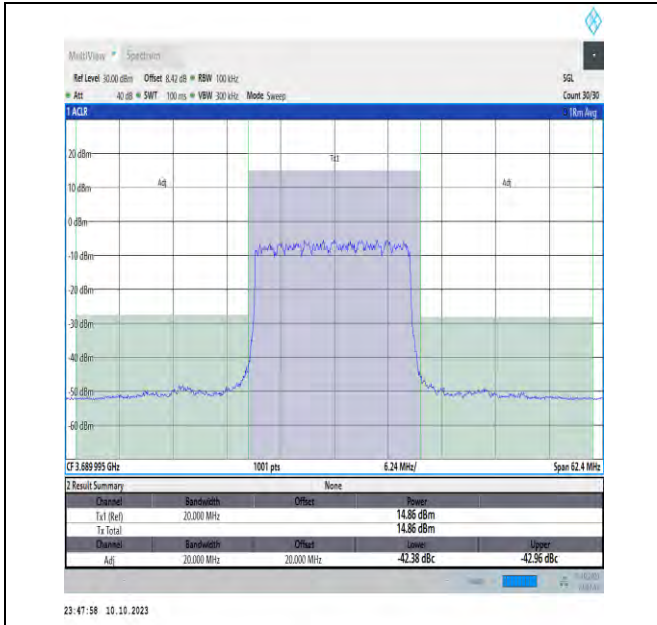


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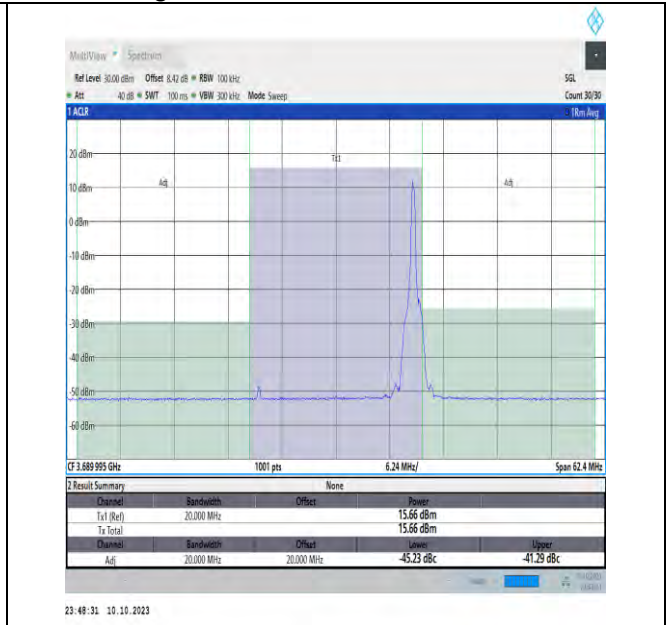


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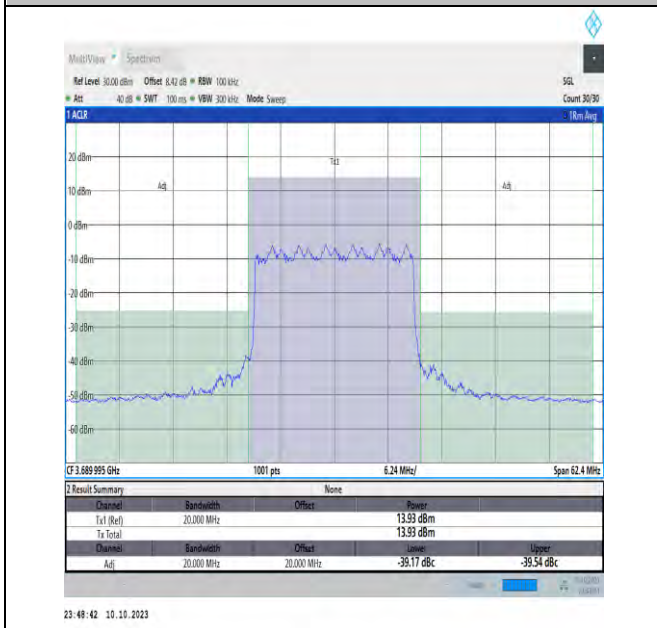
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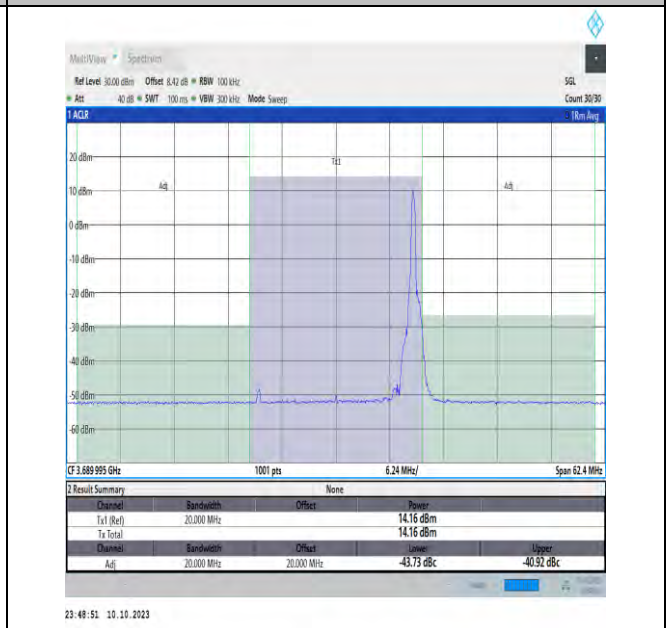
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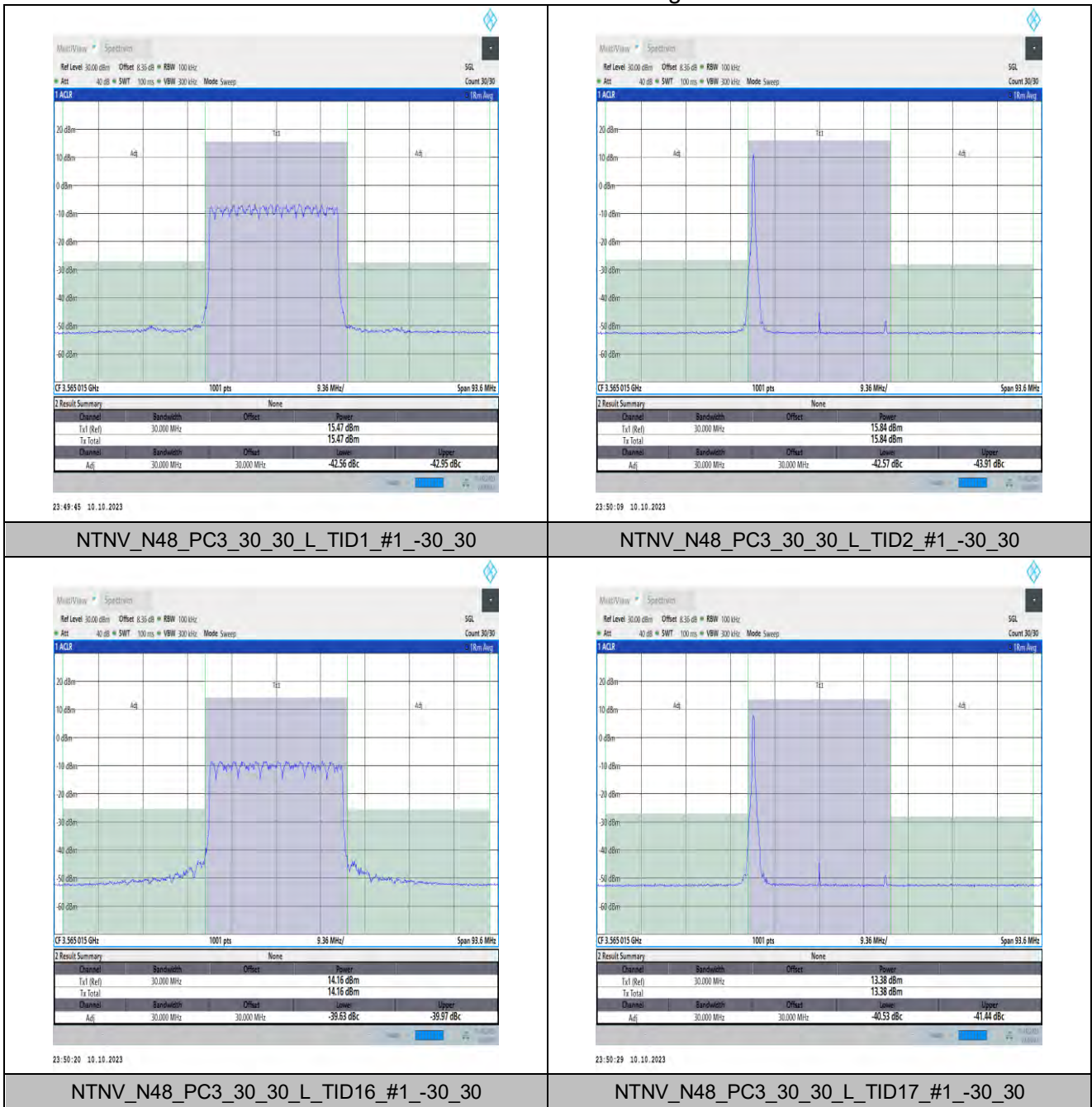


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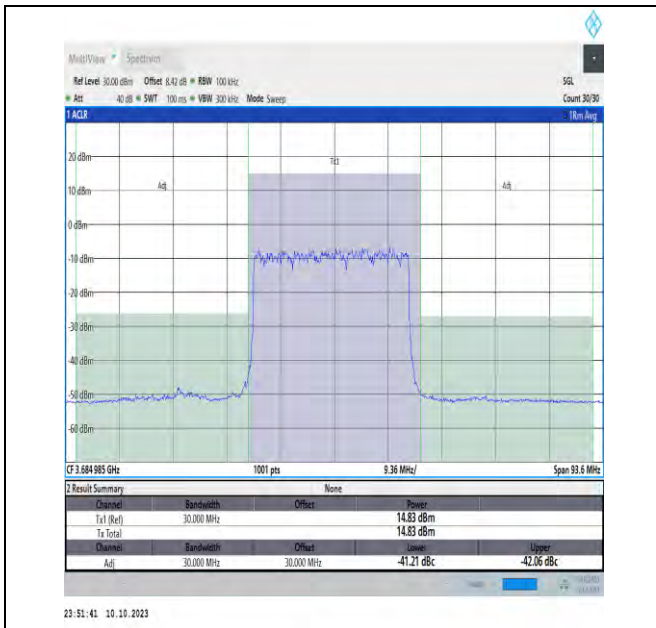
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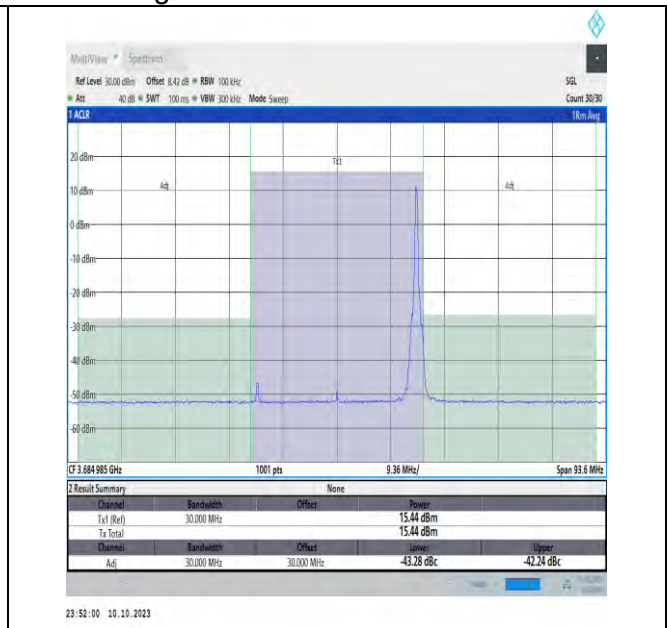


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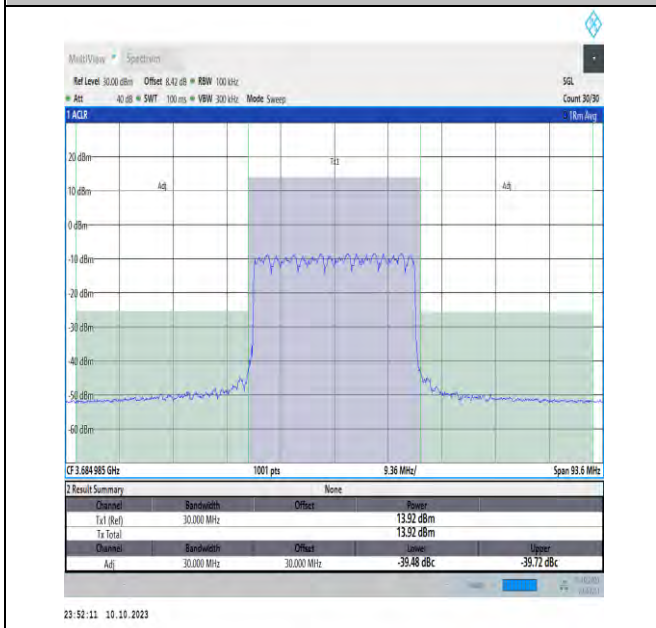
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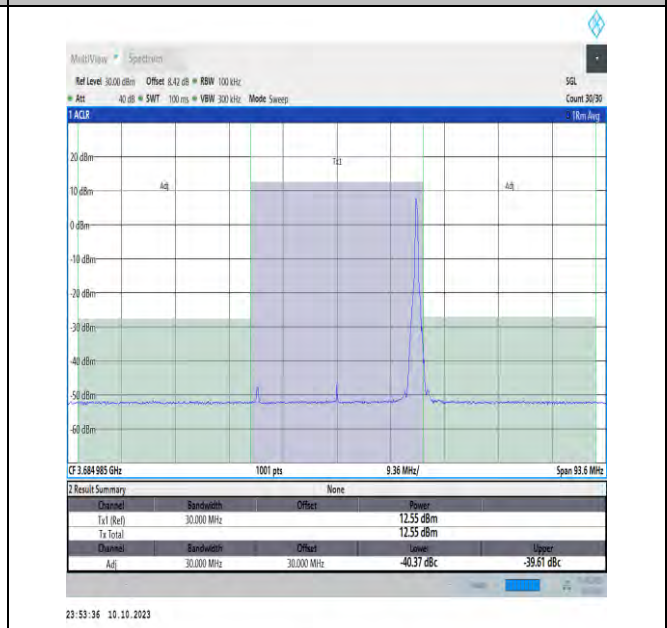
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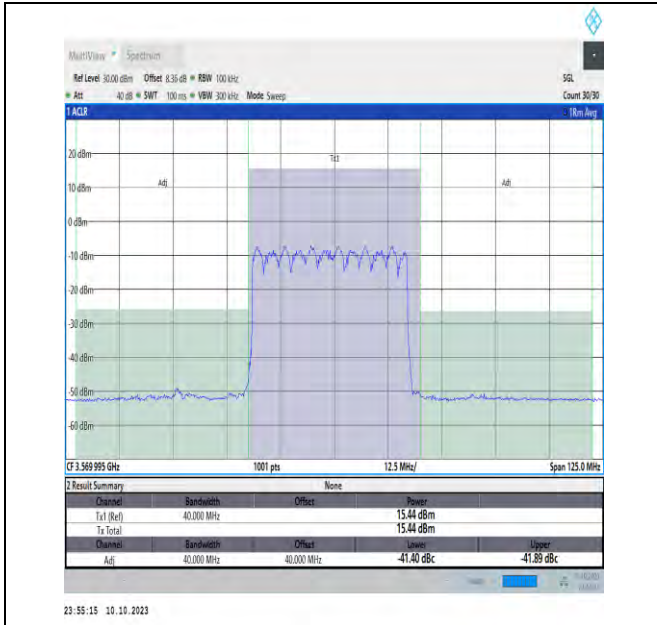


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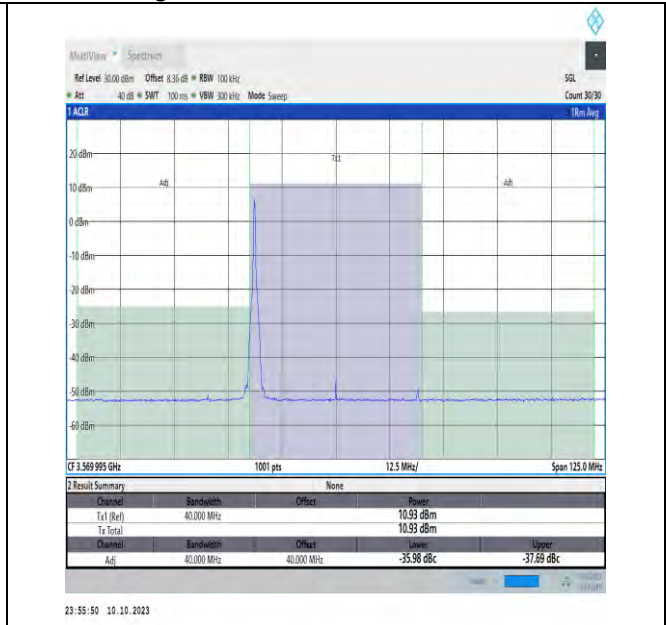


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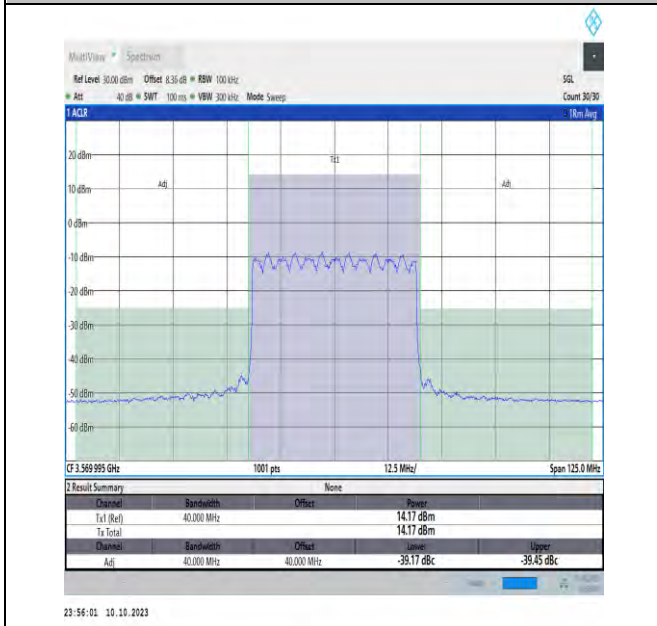
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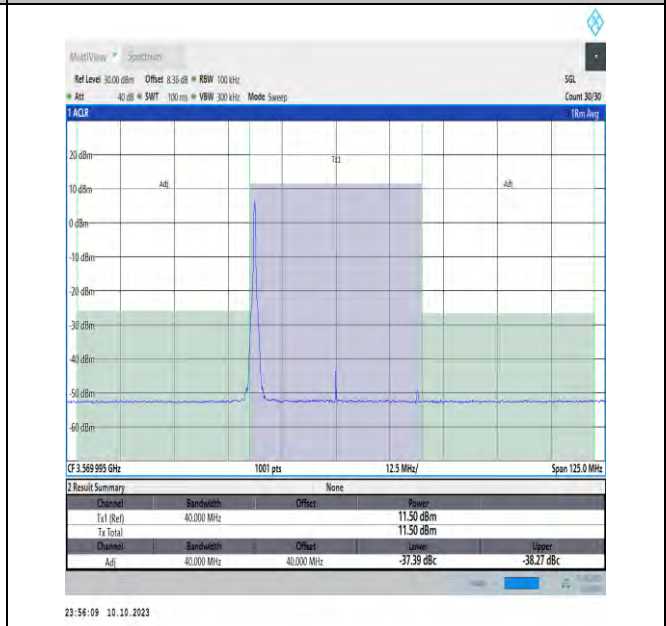
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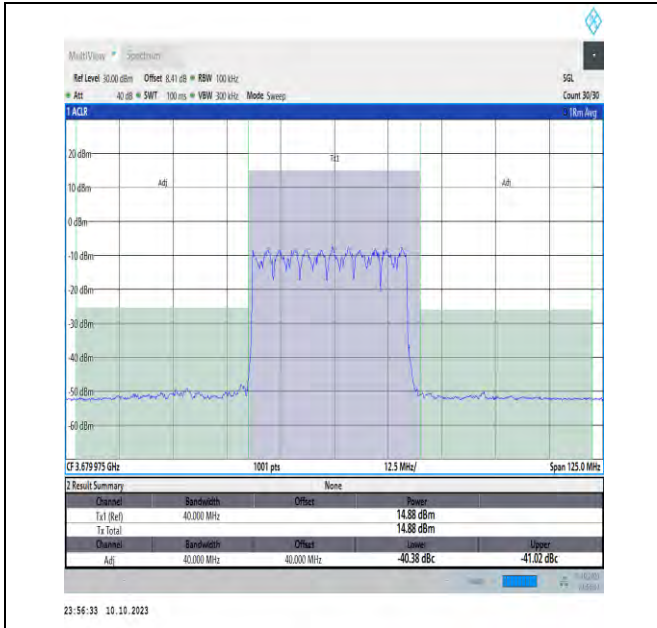


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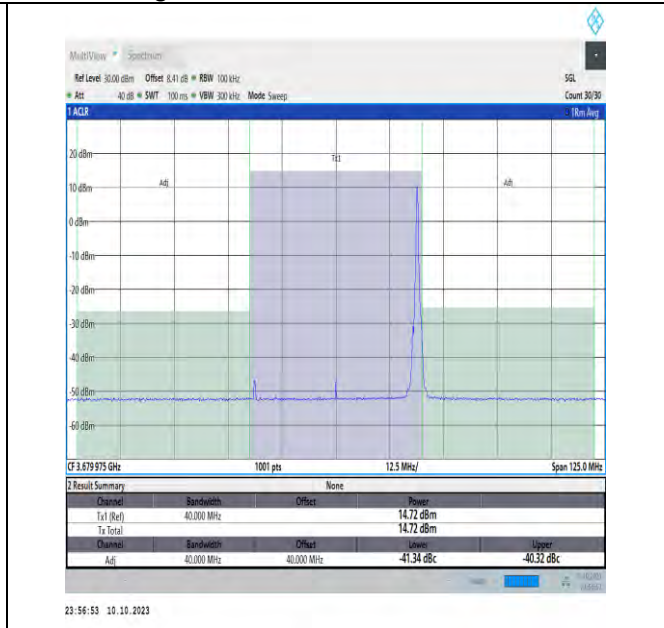


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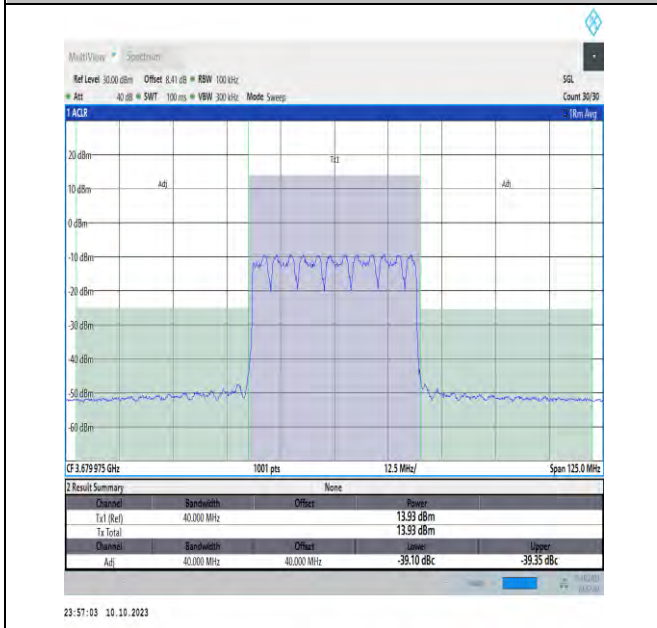
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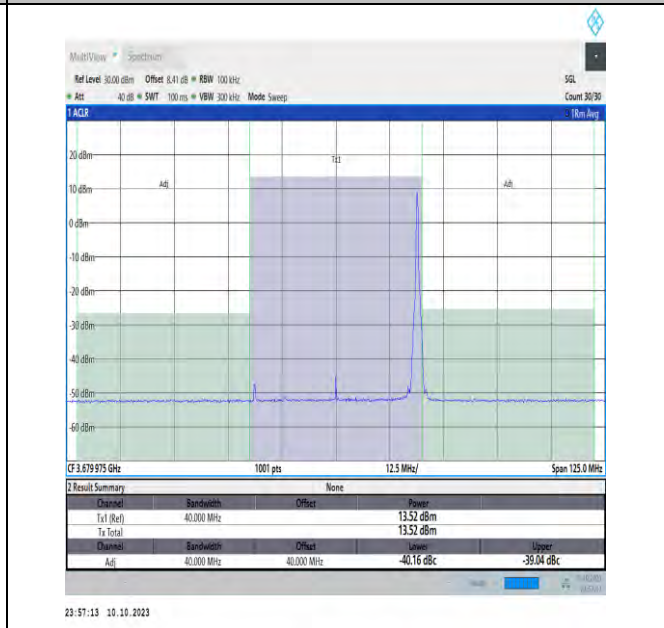
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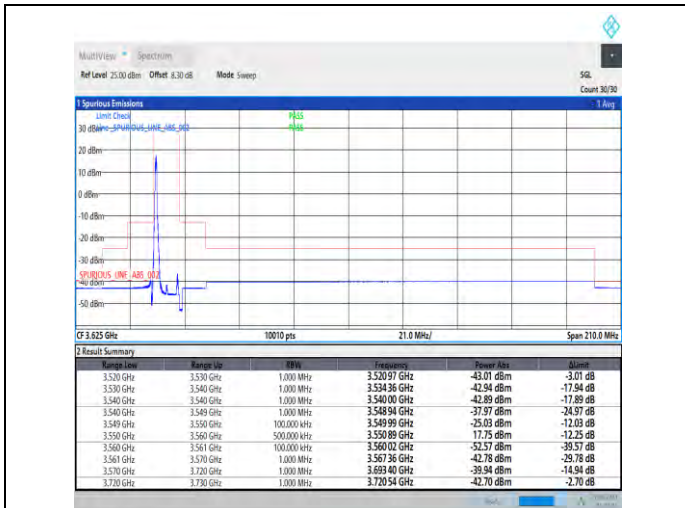


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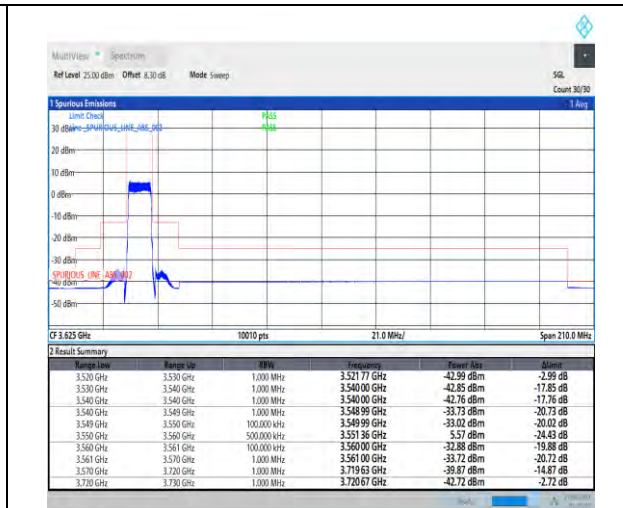
Band Edge for SA

Test Graphs



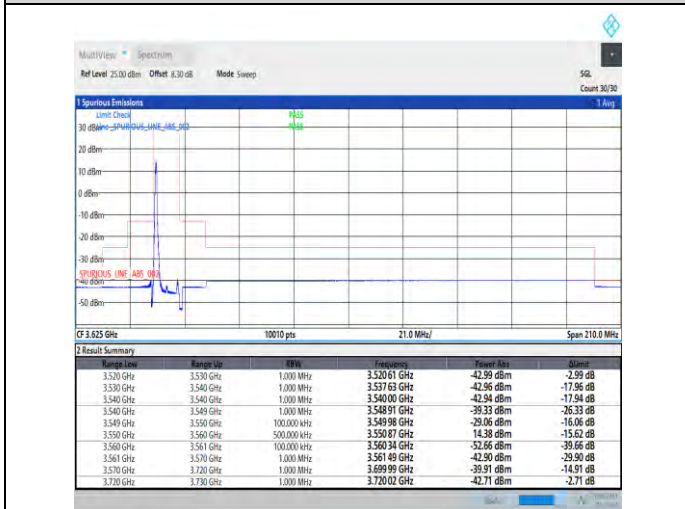
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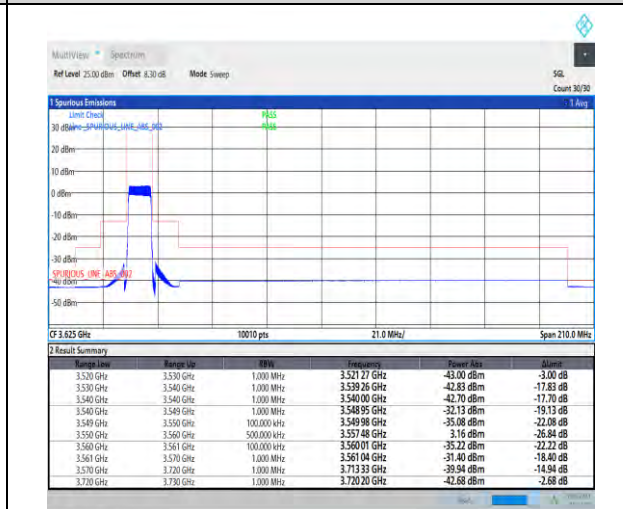
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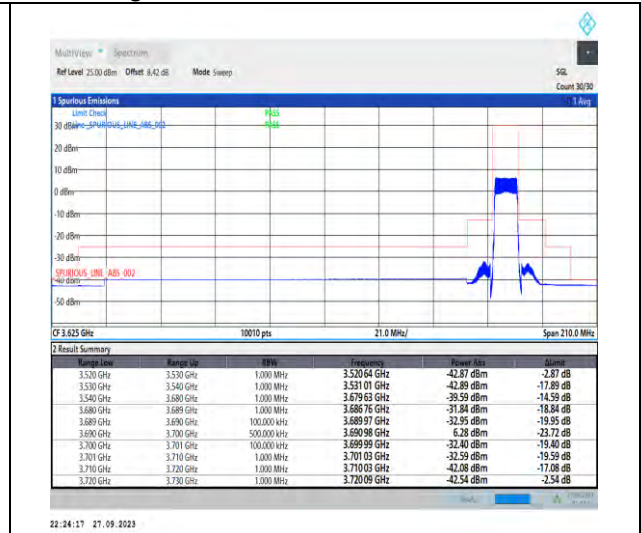
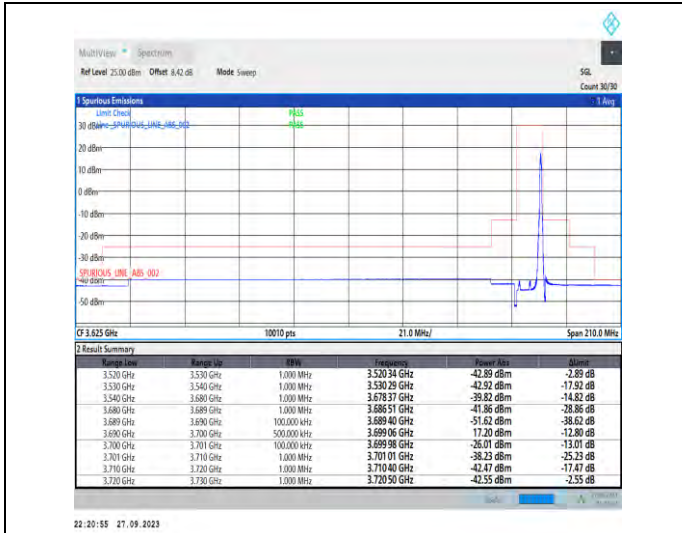
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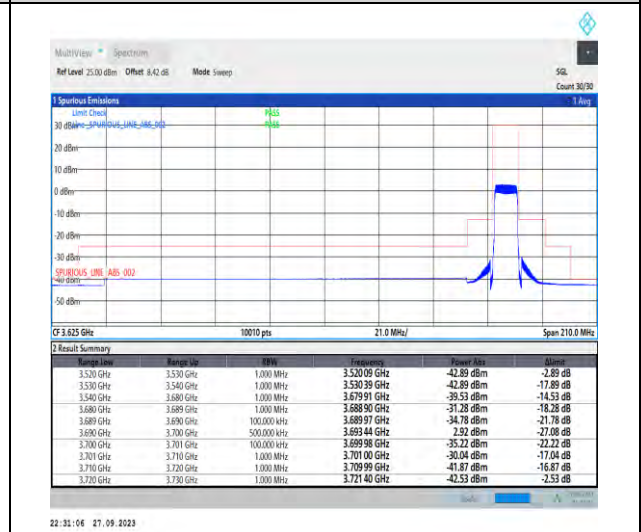
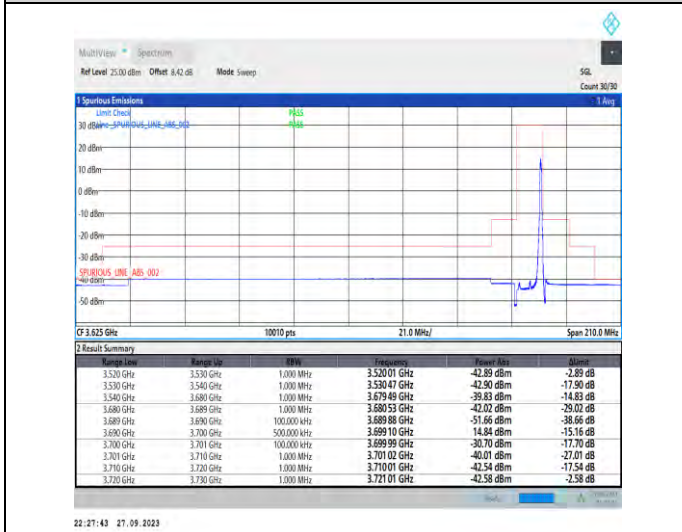
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1-N48-PC3-30-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-t-1@23-Ant7-1--PASS-see graph

1-N48-PC3-30-10-H-3-DFT-PI2BPSK-Outer_Full-24@0-Ant7-1--PASS-see graph



1-N48-PC3-30-10-H-5-CP-QPSK-Edge_1RB_Right-1@23-Ant7-1--PASS-see graph

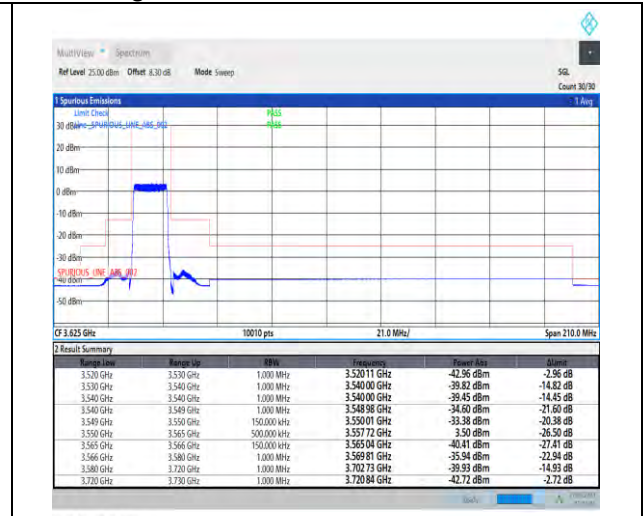
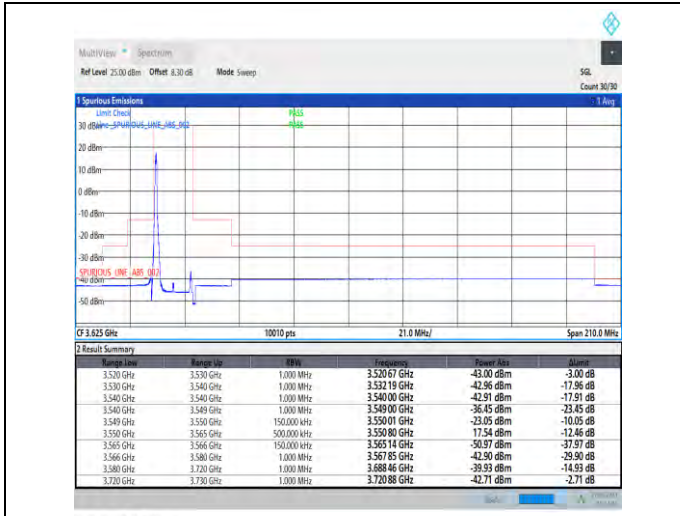
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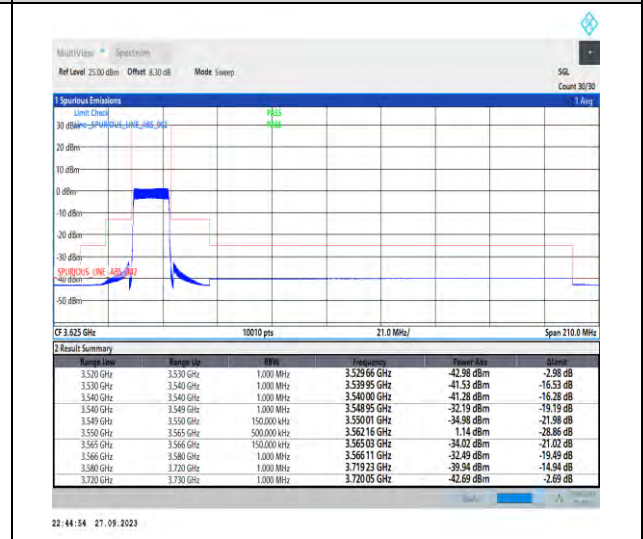
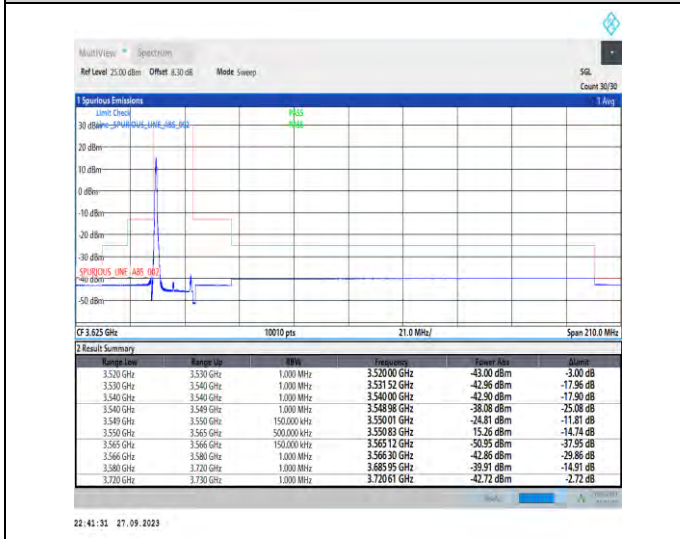
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1-N48-PC3-30-15-L-3-DFT-PI2BPSK-Outer_Full-36@0-Ant7-1--PASS-see graph



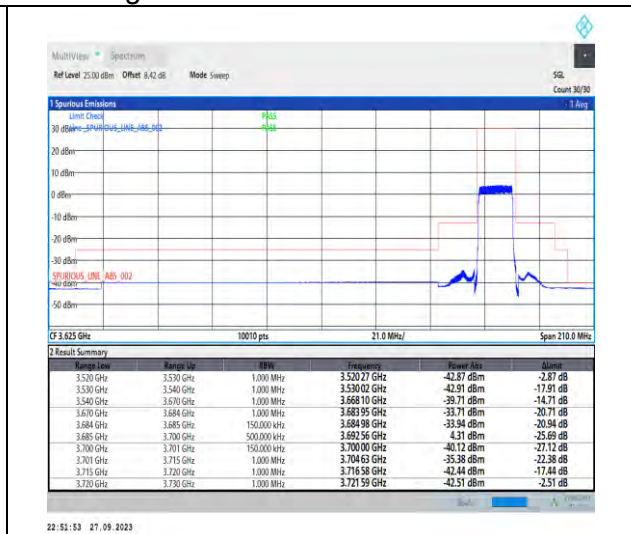
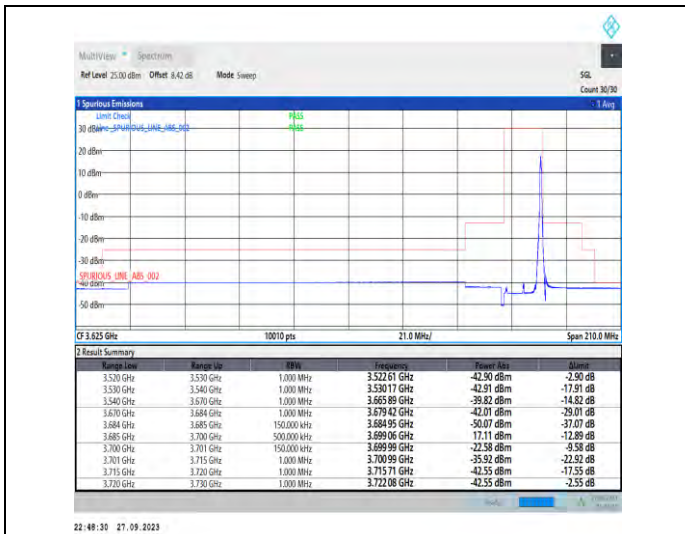
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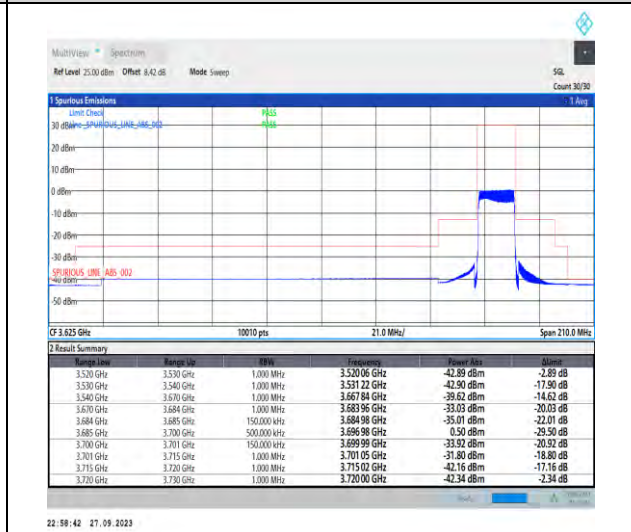
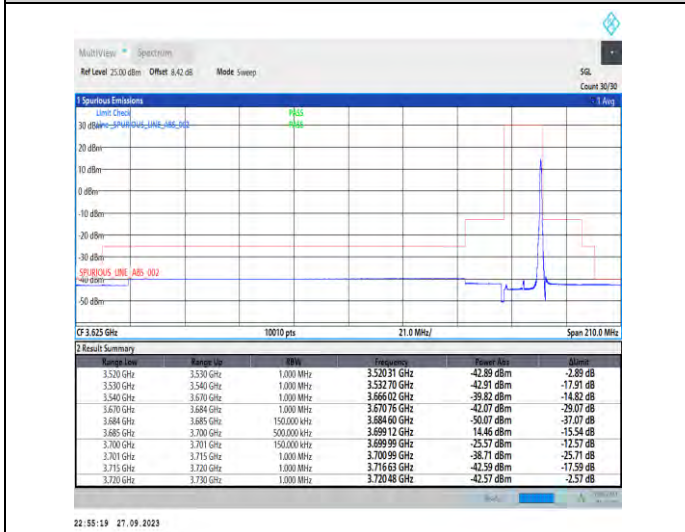
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1-N48-PC3-30-15-H-3-DFT-PI2BPSK-Outer_Full-36@0-Ant7-1--PASS-see graph



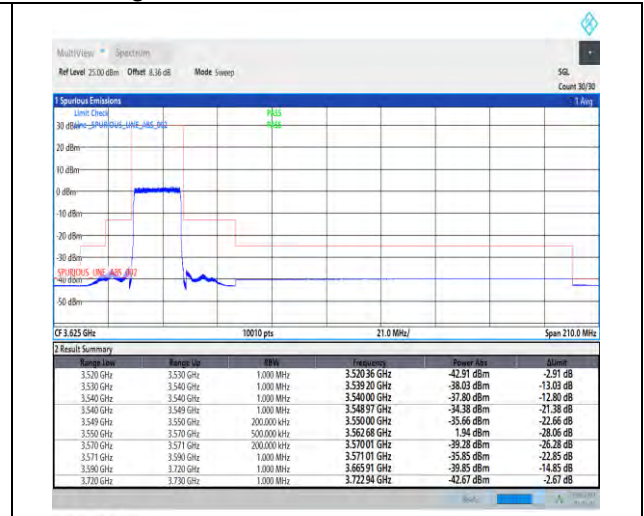
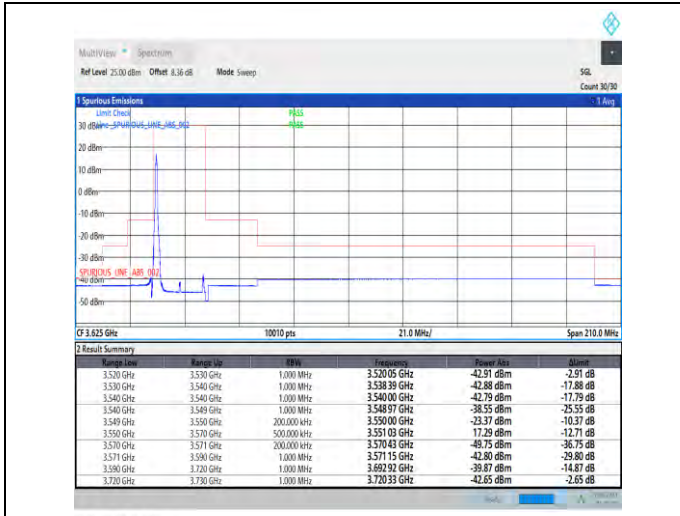
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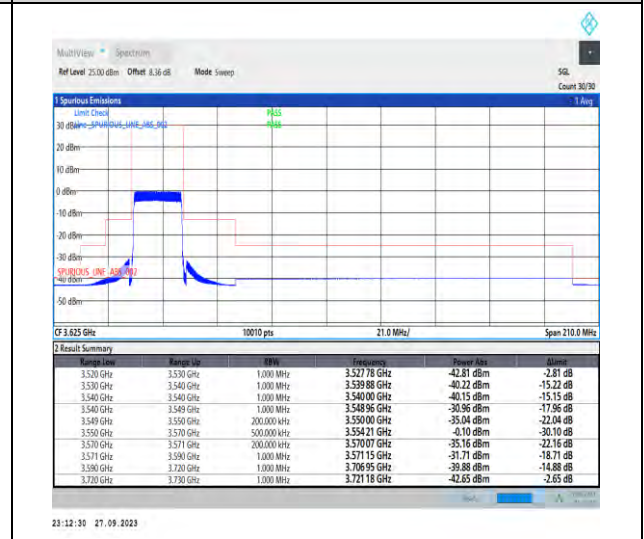
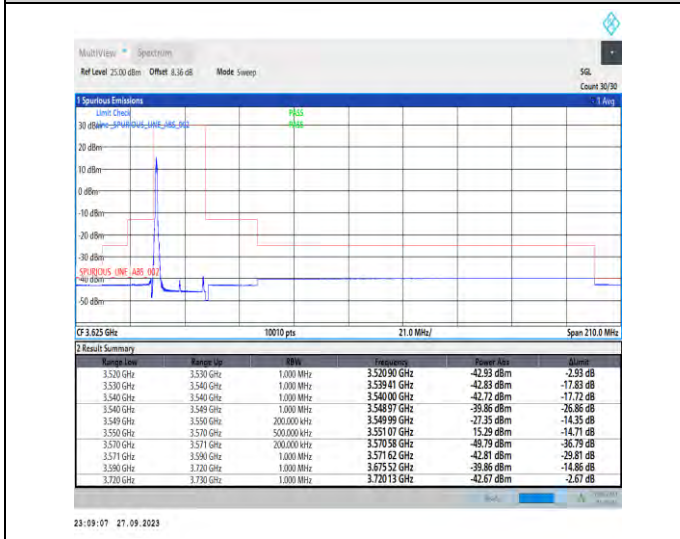
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1-N48-PC3-30-20-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant7-1--PASS-see graph

1-N48-PC3-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant7-1--PASS-see graph



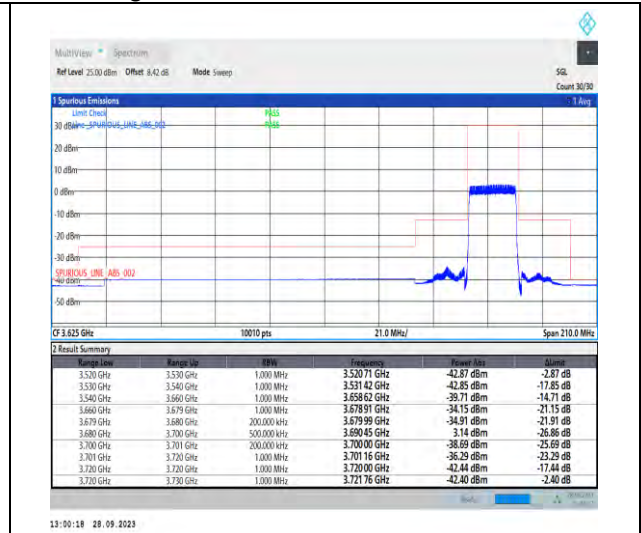
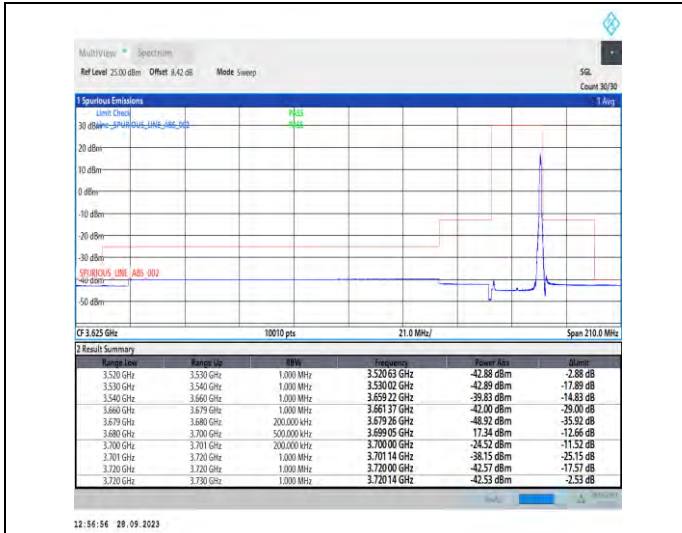
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1-N48-PC3-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant7-1--PASS-see graph



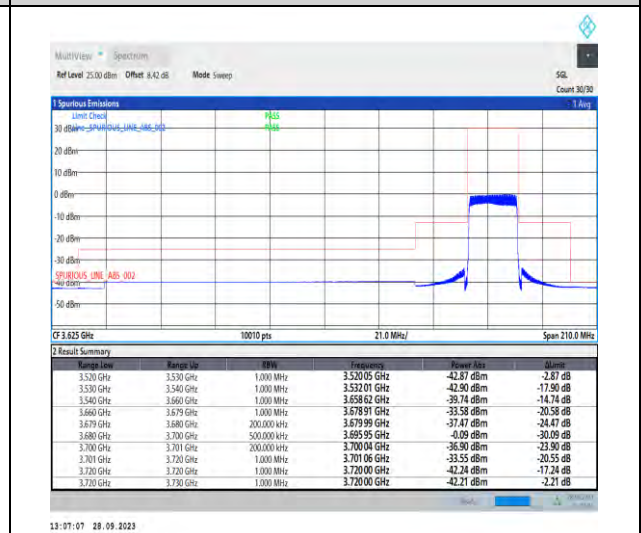
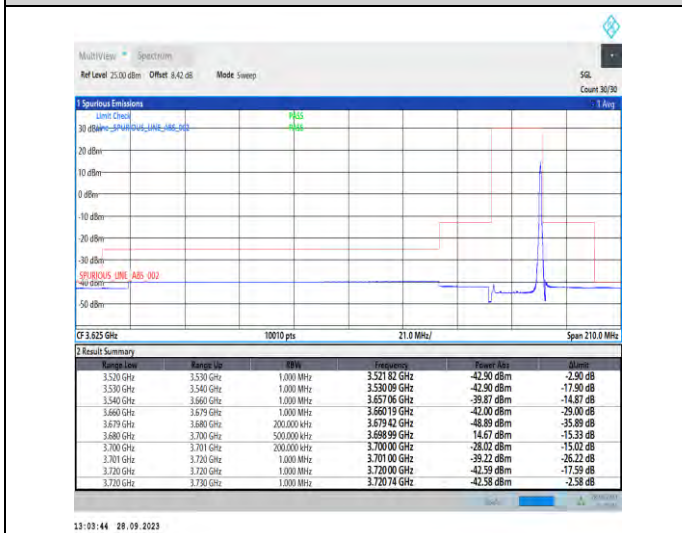
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1-N48-PC3-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@50-Ant7-1--PASS-see graph

1-N48-PC3-30-20-H-3-DFT-PI2BPSK-Outer_Full-5 0@0-Ant7-1--PASS-see graph



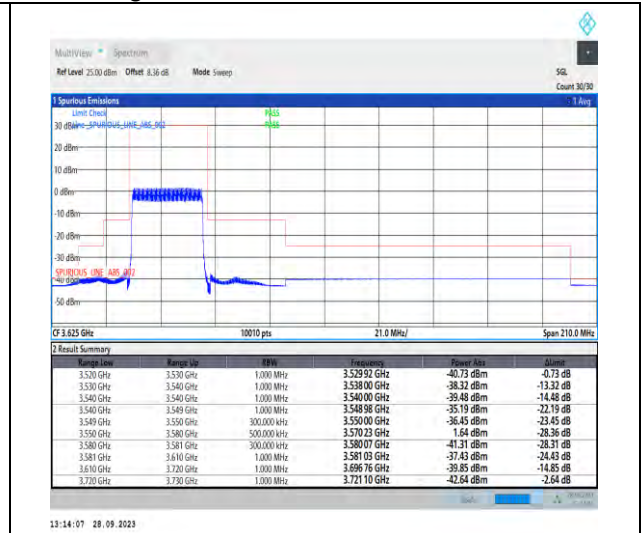
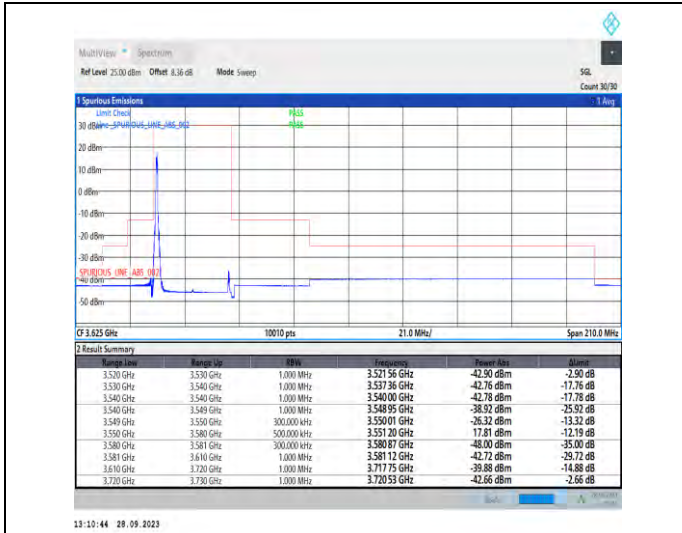
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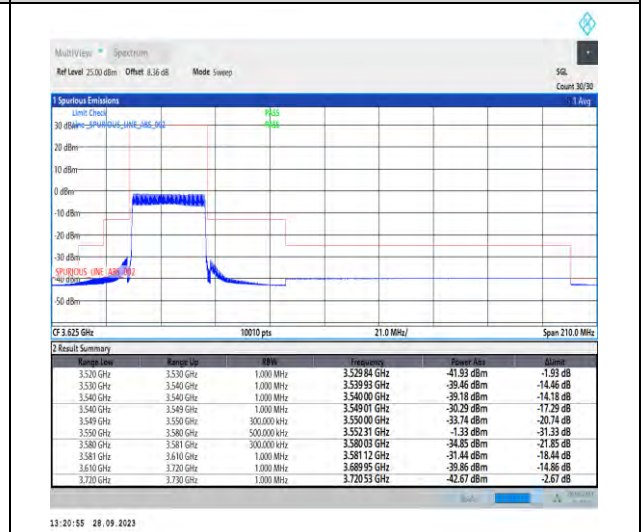
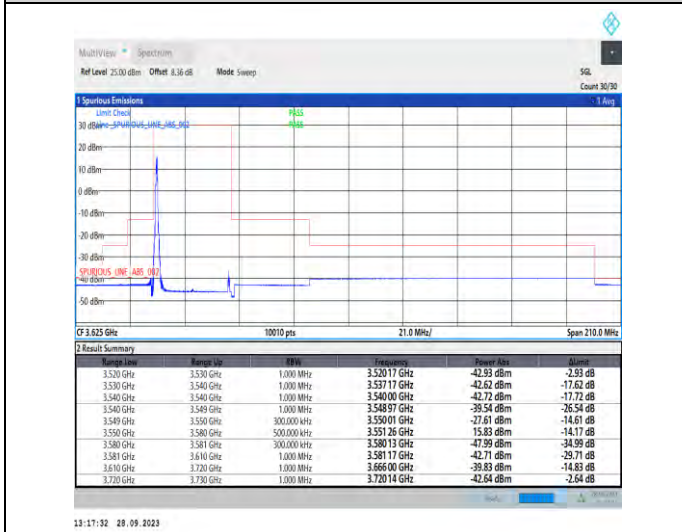
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1-N48-PC3-30-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant7-1--PASS-see graph

1-N48-PC3-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant7-1--PASS-see graph



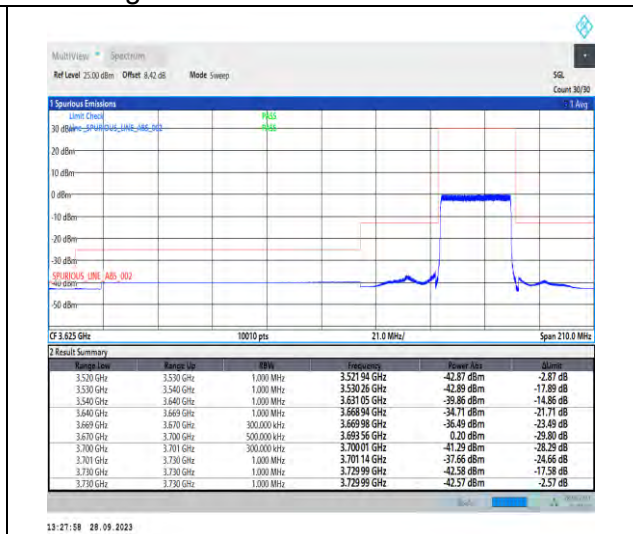
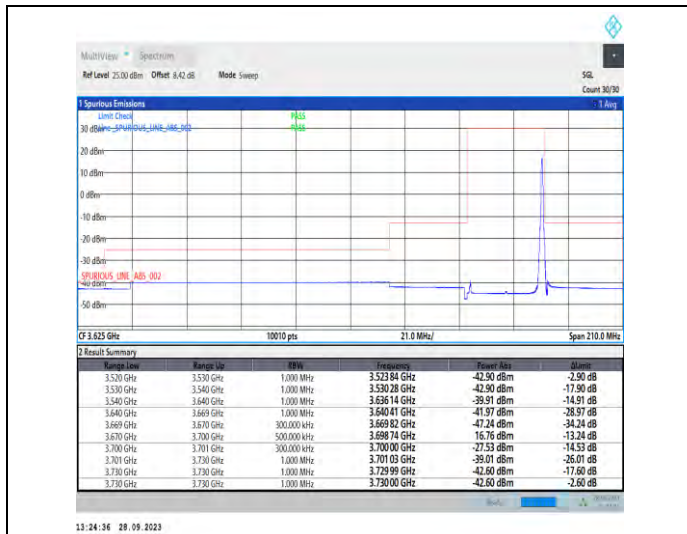
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1-N48-PC3-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant7-1--PASS-see graph



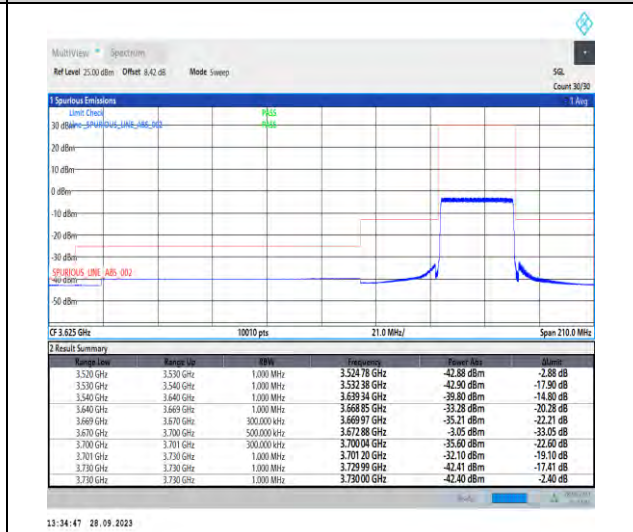
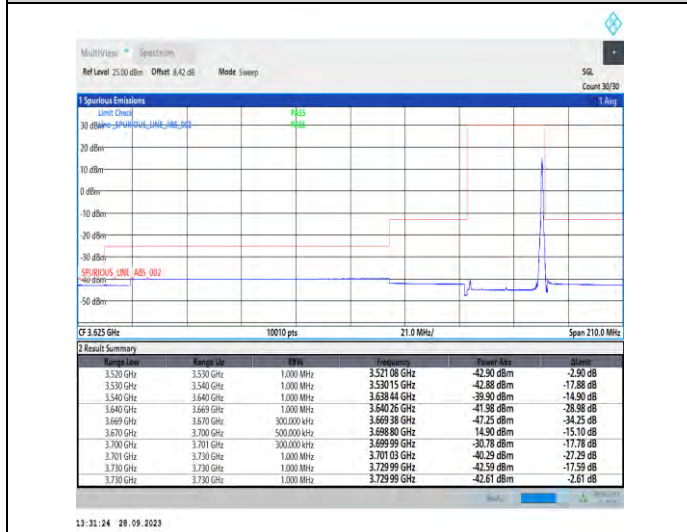
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1-N48-PC3-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@77-Ant7-1--PASS-see graph

1-N48-PC3-30-30-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant7-1--PASS-see graph



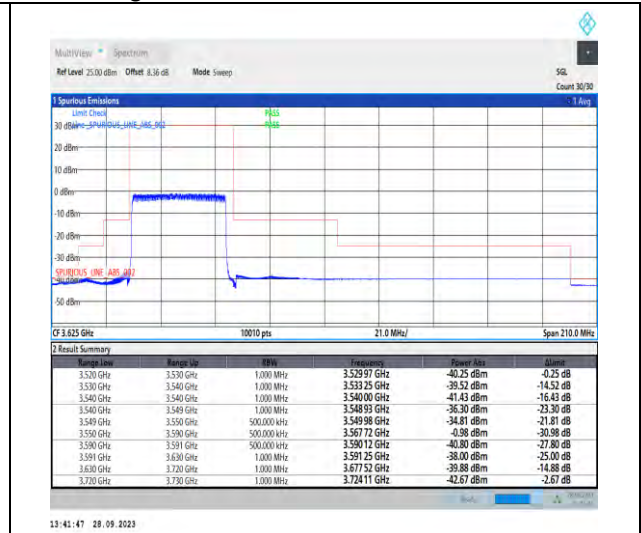
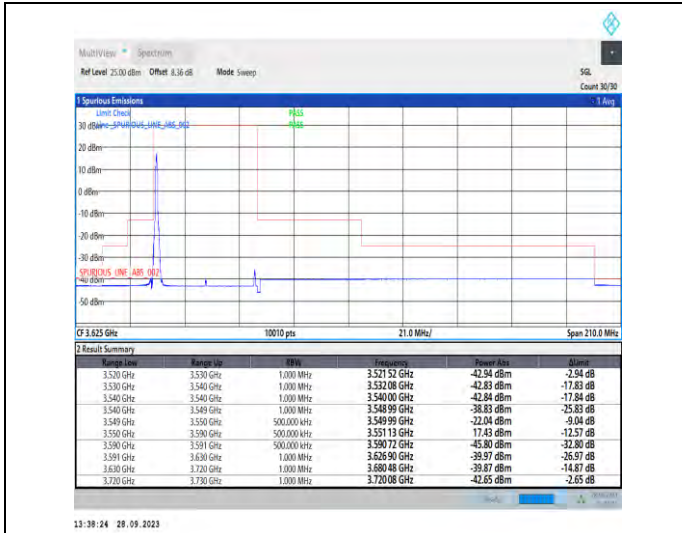
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1-N48-PC3-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant7-1--PASS-see graph



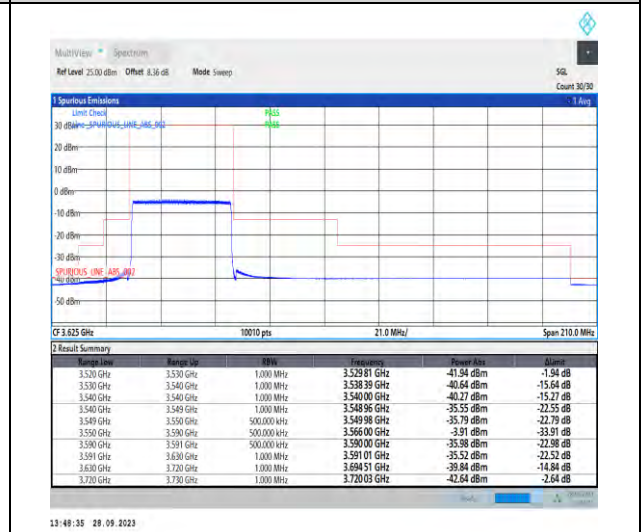
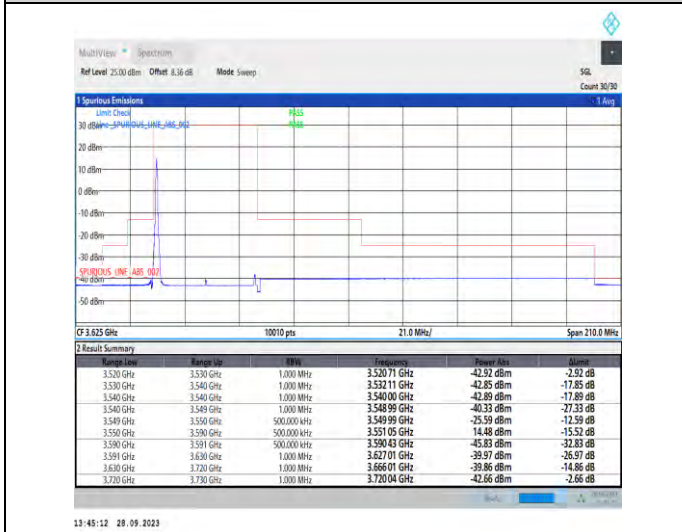
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1-N48-PC3-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant7-1--PASS-see graph

1-N48-PC3-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant7-1--PASS-see graph



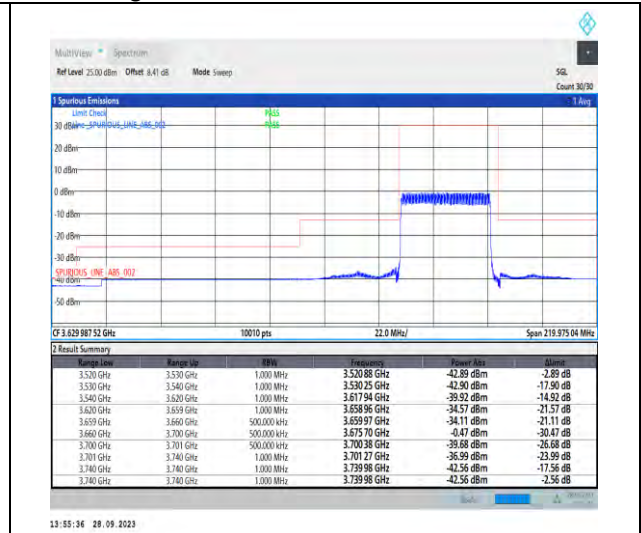
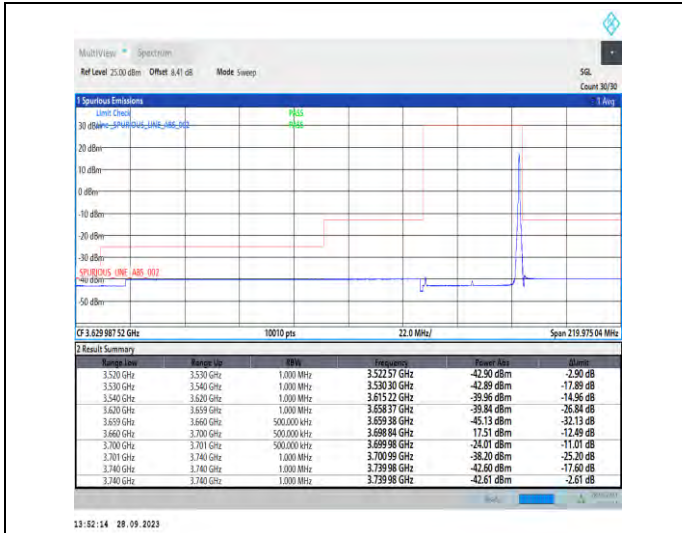
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1-N48-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant7-1--PASS-see graph



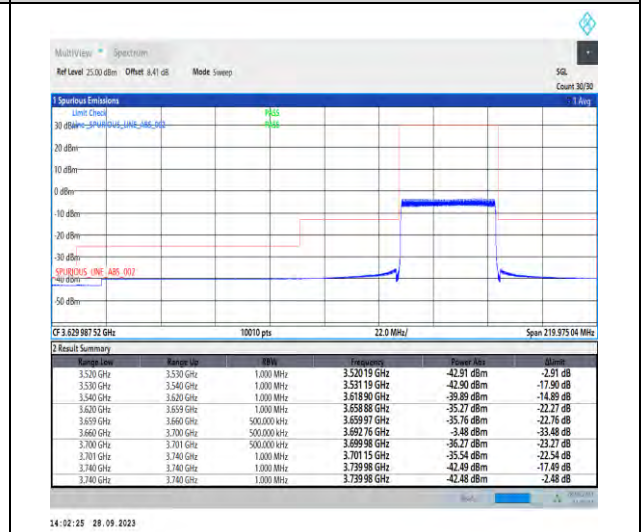
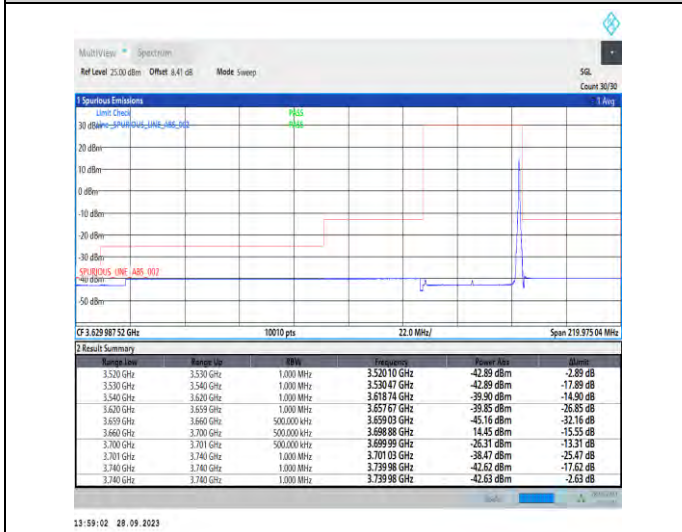
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1-N48-PC3-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Righ t-1@105-Ant7-1--PASS-see graph

1-N48-PC3-30-40-H-3-DFT-PI2BPSK-Outer_Full-1 00@0-Ant7-1--PASS-see graph



1-N48-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Righ t-1@105-Ant7-1--PASS-see graph

1-N48-PC3-30-40-H-6-CP-QPSK-Outer_Full-106 @0-Ant7-1--PASS-see graph



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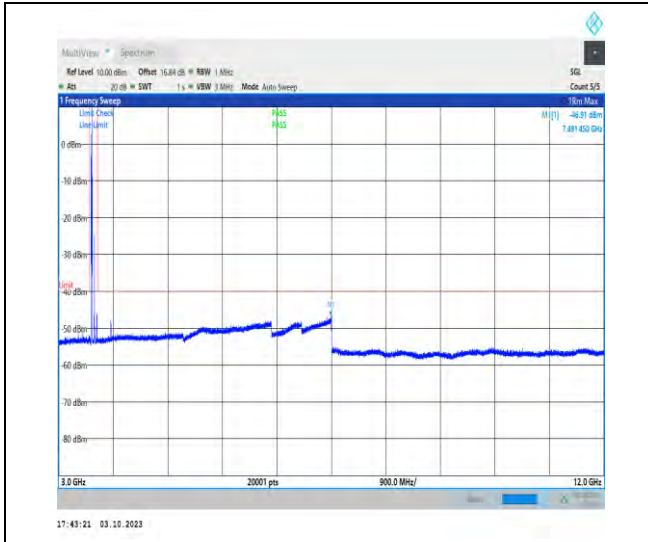
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test Graphs

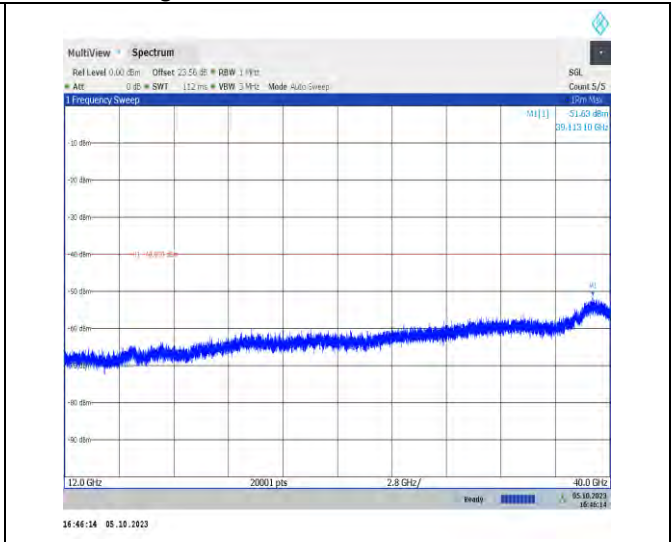


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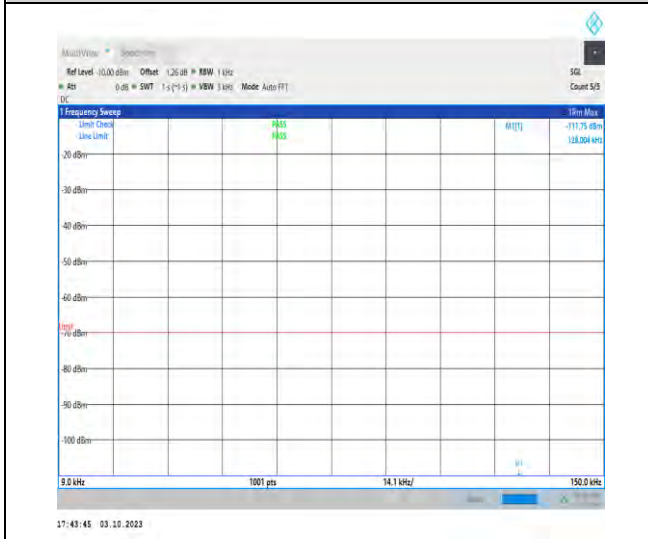
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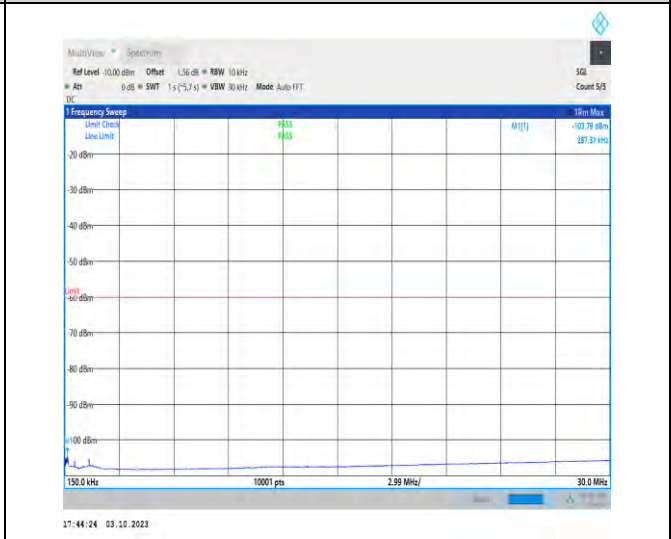
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1-N48-PC3-30-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant7-0.02--83.47--70-PASS

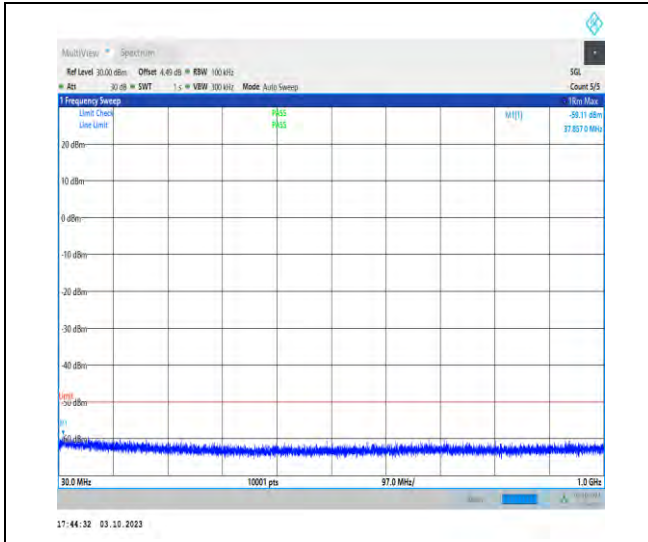


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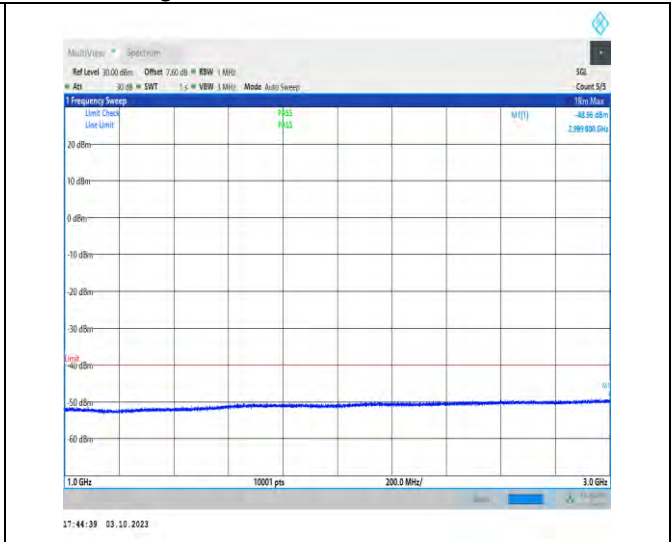


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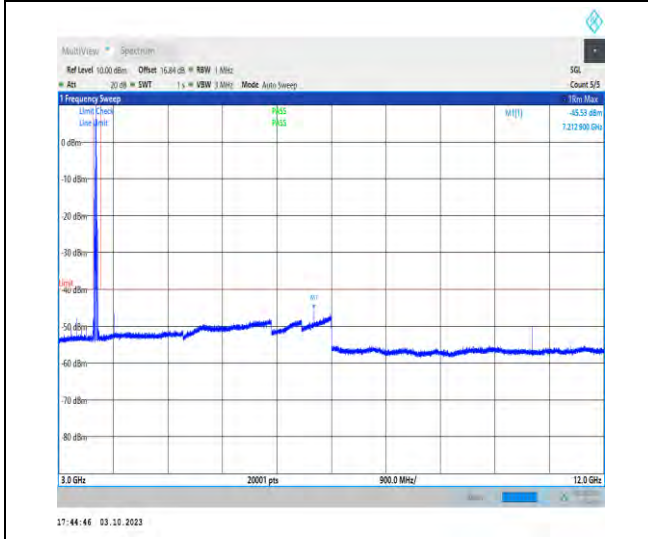
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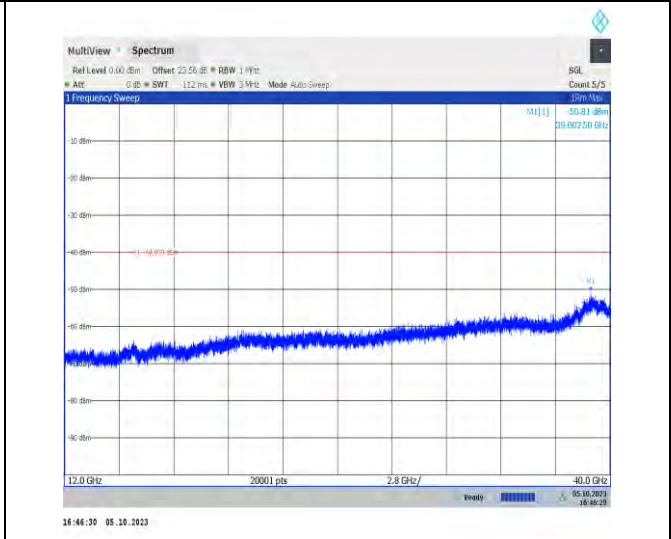
1-N48-PC3-30-40-M-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-30-1000-Ant7-45.13--55.12--50-PASS



1-N48-PC3-30-40-M-1-DFT-PI2BPSK-Inner_1RB_L ef t-1@1-1000-3000-Ant7-2634.20--44.65--40-PASS



1-N48-PC3-30-40-M-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-3000-12000-Ant7-3322.20--42.42--40-PAS S

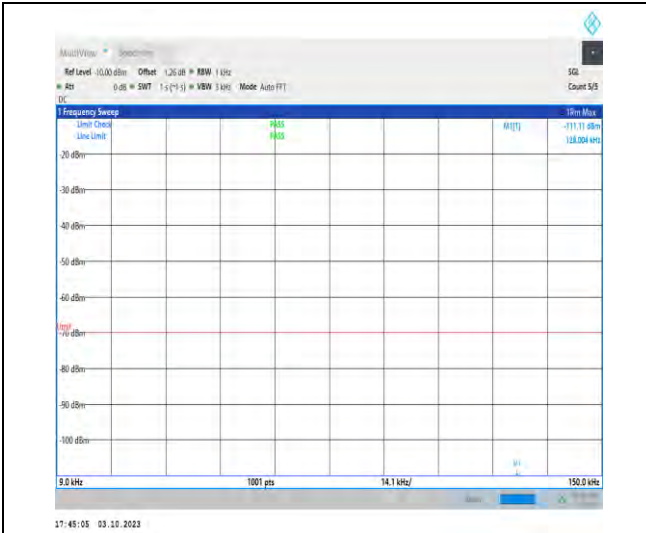


1-N48-PC3-30-40-M-1-DFT-PI2BPSK-Inner_1RB_L ef t-1@1-12000-40000-Ant7-17286.80--43.72--40-PASS

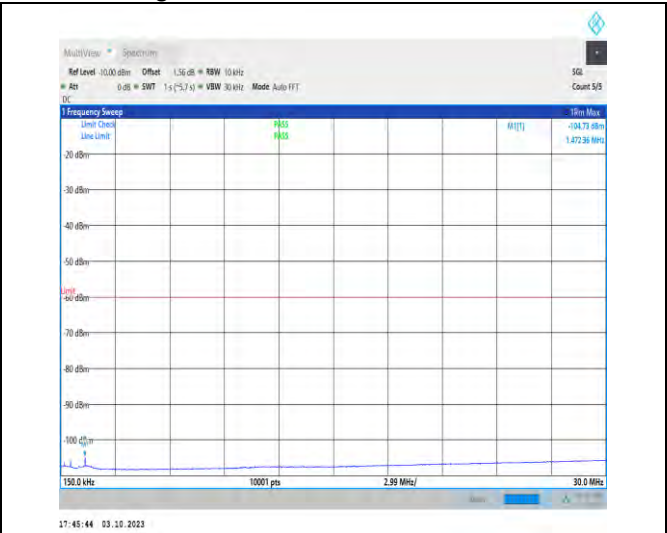


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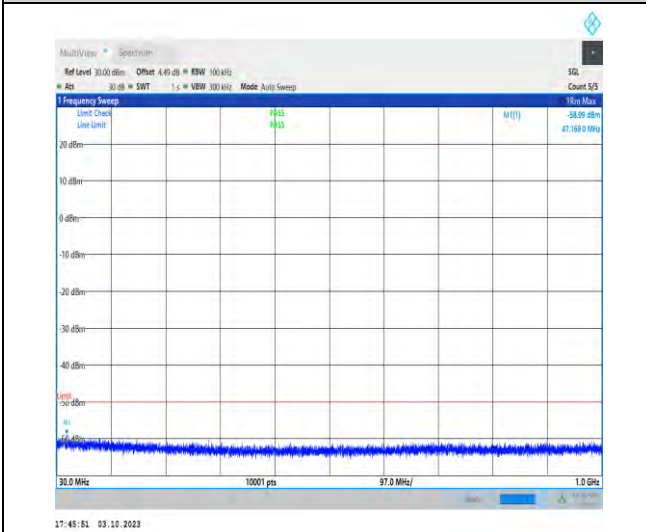
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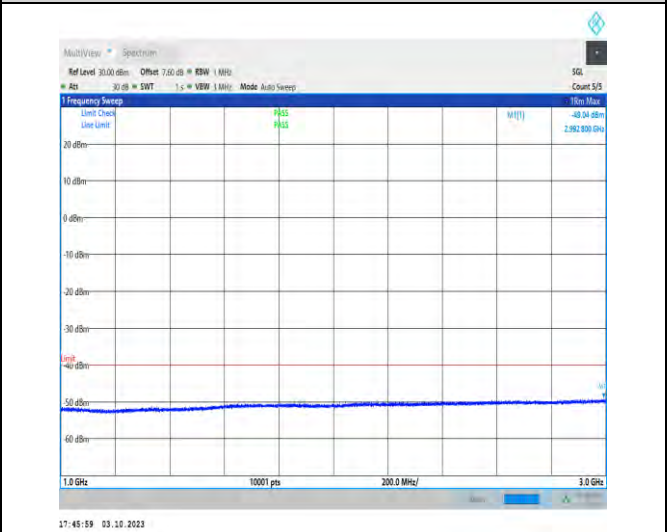
1-N48-PC3-30-40-H-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-0.009-0.15-Ant7-0.06--83.74--70-PASS



1-N48-PC3-30-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-0.15-30-Ant7-0.15--87.60--60-PASS



1-N48-PC3-30-40-H-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-30-1000-Ant7-61.62--54.53--50-PASS

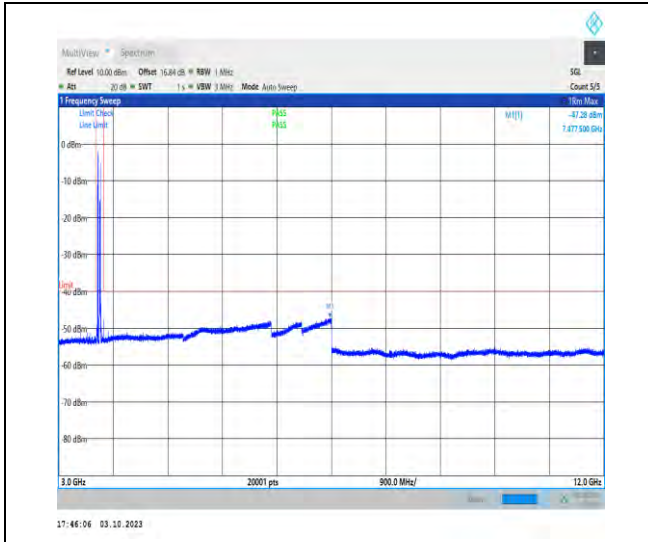


1-N48-PC3-30-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-1000-3000-Ant7-2996.80--47.22--40-PASS

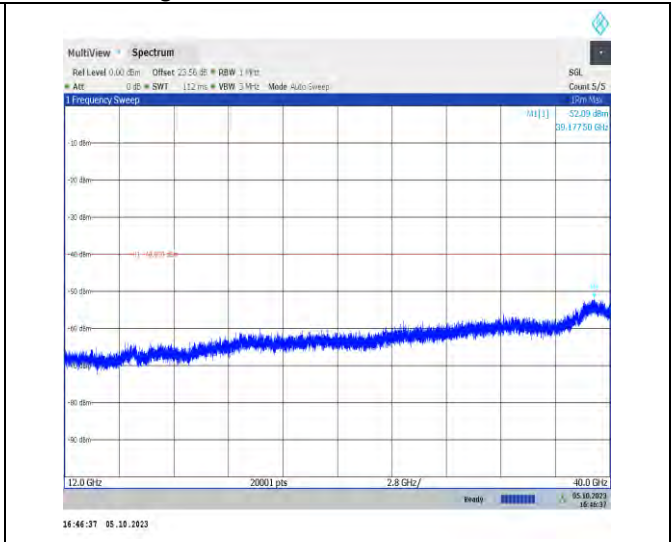


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1-N48-PC3-30-40-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-3000-12000-Ant7-3368.55--45.87--40-PAS
S



1-N48-PC3-30-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef
t-1@1-12000-20000-Ant7-17080.40--44.14--40-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 48_ 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	7342.375	43.83	-45.82	36.42	-60.83	-40.00	20.83	Horizontal
2	9313.1875	41.88	-42.92	37.88	-58.42	-40.00	18.42	Horizontal
3	10753.0833	39.69	-40.62	39.18	-57.01	-40.00	17.01	Horizontal
4	12770.375	39.08	-39.20	38.74	-56.64	-40.00	16.64	Horizontal
5	14823.6042	37.76	-37.74	40.24	-55.00	-40.00	15.00	Horizontal
6	17967.4167	37.40	-37.07	45.09	-49.84	-40.00	9.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7422.3958	43.51	-45.68	36.61	-60.82	-40.00	20.82	Vertical
2	8823.4792	42.64	-43.79	37.35	-59.05	-40.00	19.05	Vertical
3	9573.8542	40.66	-41.97	38.12	-58.45	-40.00	18.45	Vertical
4	10871.4375	39.00	-40.25	39.28	-57.23	-40.00	17.23	Vertical
5	13899.2917	37.27	-38.34	40.67	-55.66	-40.00	15.66	Vertical
6	17979.3958	36.67	-37.04	45.17	-50.46	-40.00	10.46	Vertical



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Test Band = SA Band 48_ 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	7196.2292	43.86	-45.47	36.07	-60.80	-40.00	20.80	Horizontal
2	9310.7917	42.01	-42.93	37.88	-58.30	-40.00	18.30	Horizontal
3	10807.2292	39.17	-40.43	39.23	-57.29	-40.00	17.29	Horizontal
4	12389.9167	37.88	-38.41	38.97	-56.83	-40.00	16.83	Horizontal
5	14189.1875	37.70	-38.21	40.75	-55.03	-40.00	15.03	Horizontal
6	17972.2083	36.76	-37.06	45.12	-50.44	-40.00	10.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7236.9583	44.23	-45.66	36.17	-60.52	-40.00	20.52	Vertical
2	8915	42.17	-43.56	37.48	-59.17	-40.00	19.17	Vertical
3	9581.0417	40.46	-41.90	38.12	-58.58	-40.00	18.58	Vertical
4	10917.4375	38.98	-40.23	39.33	-57.19	-40.00	17.19	Vertical
5	12004.6667	37.85	-38.60	39.20	-56.81	-40.00	16.81	Vertical
6	17960.7083	37.17	-37.09	45.05	-50.13	-40.00	10.13	Vertical



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Test Band = SA Band 48_ 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	7190.4792	44.25	-45.51	36.06	-60.47	-40.00	20.47	Horizontal
2	7851.7292	43.83	-44.94	36.38	-59.99	-40.00	19.99	Horizontal
3	9325.1667	41.54	-42.91	37.89	-58.73	-40.00	18.73	Horizontal
4	10765.0625	39.51	-40.58	39.19	-57.14	-40.00	17.14	Horizontal
5	13811.125	37.98	-38.50	40.47	-55.31	-40.00	15.31	Horizontal
6	17972.6875	36.49	-37.06	45.13	-50.70	-40.00	10.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7248.4583	43.74	-45.72	36.20	-61.05	-40.00	21.05	Vertical
2	8805.2708	42.33	-43.84	37.33	-59.45	-40.00	19.45	Vertical
3	10753.5625	39.51	-40.62	39.18	-57.19	-40.00	17.19	Vertical
4	12075.5833	38.50	-39.19	39.15	-56.80	-40.00	16.80	Vertical
5	13896.8958	37.63	-38.35	40.66	-55.31	-40.00	15.31	Vertical
6	17962.625	36.58	-37.08	45.06	-50.70	-40.00	10.70	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	1.700000	0.000469	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.200000	-0.000607	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-9.800000	-0.002703	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VH	NT	4.300000	0.001186	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VN	NT	0.700000	0.000193	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VL	NT	-2.500000	-0.000690	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-6.700000	-0.001848	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.500000	-0.000690	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-8.600000	-0.002372	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.000000	-0.001103	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.400000	-0.000662	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.200000	-0.001710	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	0.200000	0.000055	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-6.800000	-0.001876	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	1.300000	0.000359	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-30	-2.300000	-0.000634	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-20	-0.800000	-0.000221	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-10	-3.000000	-0.000828	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	0	-1.300000	-0.000359	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	10	-2.800000	-0.000772	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	20	-3.600000	-0.000993	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	30	-3.800000	-0.001048	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	40	-4.800000	-0.001324	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	50	2.300000	0.000634	PASS

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