

Report No.: SUCR240400008902

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Appendix B.37

NR Band n13



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	24.15	25.28	34.77	PASS
N13	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	24.2	25.33	34.77	PASS
N13	15	5	DFT-PI2BPSK	L	Outer_Full	24.2	25.33	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Left	24.1	25.23	34.77	PASS
N13	15	5	DFT-QPSK	L	Inner_1RB_Right	24.18	25.31	34.77	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	24.19	25.32	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Left	24.2	25.33	34.77	PASS
N13	15	5	DFT-16QAM	L	Inner_1RB_Right	24.24	25.37	34.77	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	23.3	24.43	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Left	22.94	24.07	34.77	PASS
N13	15	5	DFT-64QAM	L	Inner_1RB_Right	23	24.13	34.77	PASS
N13	15	5	DFT-64QAM	L	Outer_Full	22.78	23.91	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Left	20.15	21.28	34.77	PASS
N13	15	5	DFT-256QAM	L	Inner_1RB_Right	20.29	21.42	34.77	PASS
N13	15	5	DFT-256QAM	L	Outer_Full	20.62	21.75	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	24.32	25.45	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	24.12	25.25	34.77	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	24.15	25.28	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Left	24.24	25.37	34.77	PASS
N13	15	5	DFT-QPSK	M	Inner_1RB_Right	23.96	25.09	34.77	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	24.19	25.32	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Left	24.1	25.23	34.77	PASS
N13	15	5	DFT-16QAM	M	Inner_1RB_Right	24.15	25.28	34.77	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	23.23	24.36	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Left	23.05	24.18	34.77	PASS
N13	15	5	DFT-64QAM	M	Inner_1RB_Right	22.99	24.12	34.77	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	22.77	23.9	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Left	20.14	21.27	34.77	PASS
N13	15	5	DFT-256QAM	M	Inner_1RB_Right	20.13	21.26	34.77	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	20.58	21.71	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	24.19	25.32	34.77	PASS



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N13	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	24.1	25.23	34.77	PASS
N13	15	5	DFT-PI2BPSK	H	Outer_Full	24.09	25.22	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Left	24.05	25.18	34.77	PASS
N13	15	5	DFT-QPSK	H	Inner_1RB_Right	24.04	25.17	34.77	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	24.07	25.2	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Left	24.25	25.38	34.77	PASS
N13	15	5	DFT-16QAM	H	Inner_1RB_Right	24.08	25.21	34.77	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	23.24	24.37	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Left	22.98	24.11	34.77	PASS
N13	15	5	DFT-64QAM	H	Inner_1RB_Right	22.93	24.06	34.77	PASS
N13	15	5	DFT-64QAM	H	Outer_Full	22.63	23.76	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Left	20.18	21.31	34.77	PASS
N13	15	5	DFT-256QAM	H	Inner_1RB_Right	20.11	21.24	34.77	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	20.5	21.63	34.77	PASS
N13	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	24.12	25.25	34.77	PASS
N13	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	24.05	25.18	34.77	PASS
N13	15	10	DFT-PI2BPSK	L	Outer_Full	24.18	25.31	34.77	PASS
N13	15	10	DFT-QPSK	L	Inner_1RB_Left	24.06	25.19	34.77	PASS
N13	15	10	DFT-QPSK	L	Inner_1RB_Right	24	25.13	34.77	PASS
N13	15	10	DFT-QPSK	L	Outer_Full	24.18	25.31	34.77	PASS
N13	15	10	DFT-16QAM	L	Inner_1RB_Left	24.05	25.18	34.77	PASS
N13	15	10	DFT-16QAM	L	Inner_1RB_Right	24.19	25.32	34.77	PASS
N13	15	10	DFT-16QAM	L	Outer_Full	23.28	24.41	34.77	PASS
N13	15	10	DFT-64QAM	L	Inner_1RB_Left	23	24.13	34.77	PASS
N13	15	10	DFT-64QAM	L	Inner_1RB_Right	22.97	24.1	34.77	PASS
N13	15	10	DFT-64QAM	L	Outer_Full	22.91	24.04	34.77	PASS
N13	15	10	DFT-256QAM	L	Inner_1RB_Left	20.31	21.44	34.77	PASS
N13	15	10	DFT-256QAM	L	Inner_1RB_Right	20.16	21.29	34.77	PASS
N13	15	10	DFT-256QAM	L	Outer_Full	20.61	21.74	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.02	25.15	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.05	25.18	34.77	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	24.22	25.35	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Left	24.21	25.34	34.77	PASS
N13	15	10	DFT-QPSK	M	Inner_1RB_Right	24.15	25.28	34.77	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	24.19	25.32	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Left	24.24	25.37	34.77	PASS
N13	15	10	DFT-16QAM	M	Inner_1RB_Right	24.23	25.36	34.77	PASS



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N13	15	10	DFT-16QAM	M	Outer_Full	23.38	24.51	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Left	23	24.13	34.77	PASS
N13	15	10	DFT-64QAM	M	Inner_1RB_Right	22.92	24.05	34.77	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	22.76	23.89	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Left	20.16	21.29	34.77	PASS
N13	15	10	DFT-256QAM	M	Inner_1RB_Right	20.17	21.3	34.77	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	20.69	21.82	34.77	PASS
N13	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	24.2	25.33	34.77	PASS
N13	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	24.15	25.28	34.77	PASS
N13	15	10	DFT-PI2BPSK	H	Outer_Full	24.16	25.29	34.77	PASS
N13	15	10	DFT-QPSK	H	Inner_1RB_Left	24.11	25.24	34.77	PASS
N13	15	10	DFT-QPSK	H	Inner_1RB_Right	23.99	25.12	34.77	PASS
N13	15	10	DFT-QPSK	H	Outer_Full	24.14	25.27	34.77	PASS
N13	15	10	DFT-16QAM	H	Inner_1RB_Left	24.16	25.29	34.77	PASS
N13	15	10	DFT-16QAM	H	Inner_1RB_Right	24.1	25.23	34.77	PASS
N13	15	10	DFT-16QAM	H	Outer_Full	23.42	24.55	34.77	PASS
N13	15	10	DFT-64QAM	H	Inner_1RB_Left	23.11	24.24	34.77	PASS
N13	15	10	DFT-64QAM	H	Inner_1RB_Right	22.98	24.11	34.77	PASS
N13	15	10	DFT-64QAM	H	Outer_Full	22.94	24.07	34.77	PASS
N13	15	10	DFT-256QAM	H	Inner_1RB_Left	20.21	21.34	34.77	PASS
N13	15	10	DFT-256QAM	H	Inner_1RB_Right	20.23	21.36	34.77	PASS



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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N13	15	5	DFT-256QAM	L	Outer_Full	6.62	13	PASS
N13	15	5	CP-256QAM	L	Outer_Full	8.52	13	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	6.84	13	PASS
N13	15	5	CP-256QAM	M	Outer_Full	8.88	13	PASS
N13	15	5	DFT-256QAM	H	Outer_Full	6.76	13	PASS
N13	15	5	CP-256QAM	H	Outer_Full	8.52	13	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	6.96	13	PASS
N13	15	10	CP-256QAM	M	Outer_Full	8.82	13	PASS



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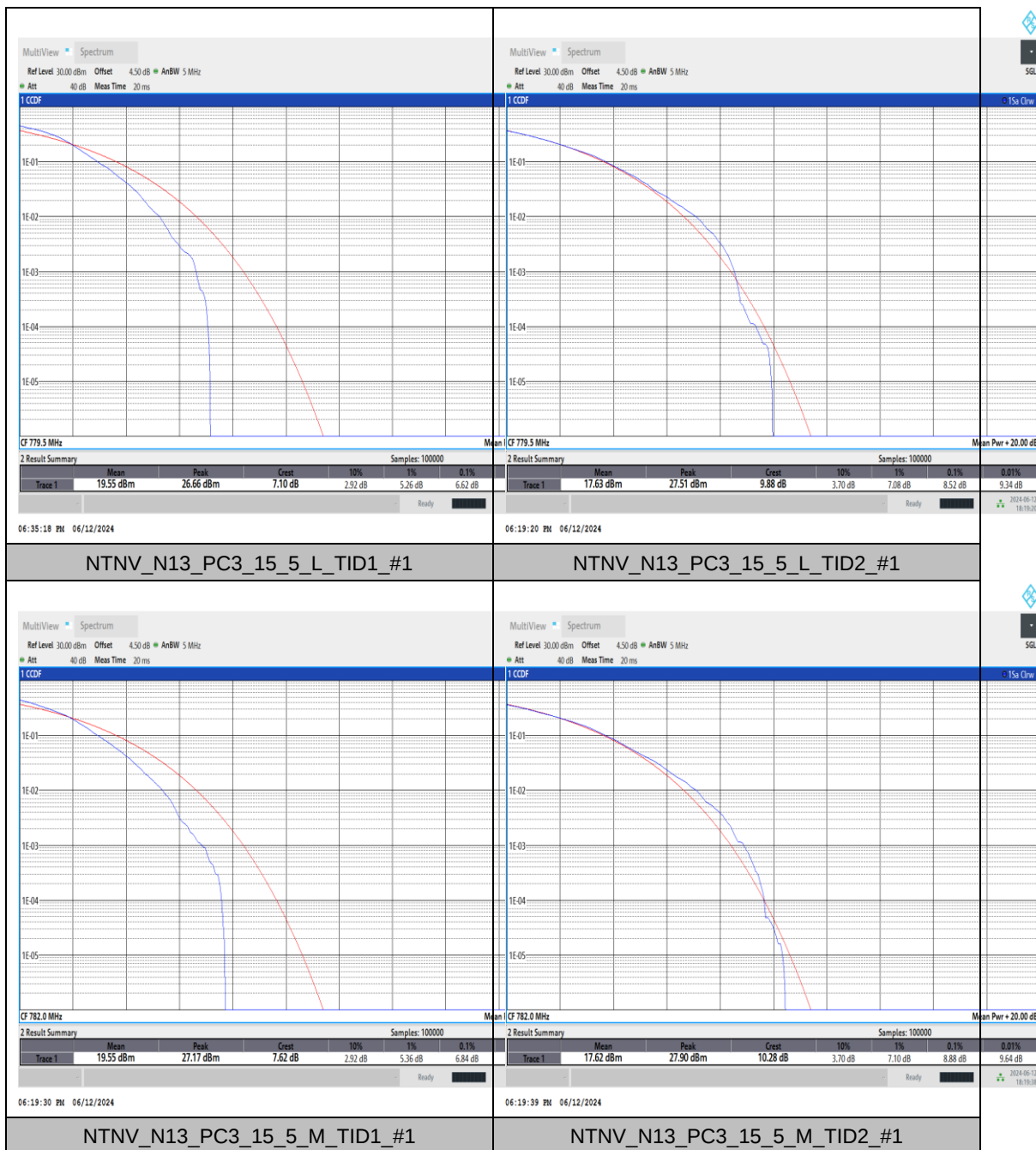
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Test Graphs



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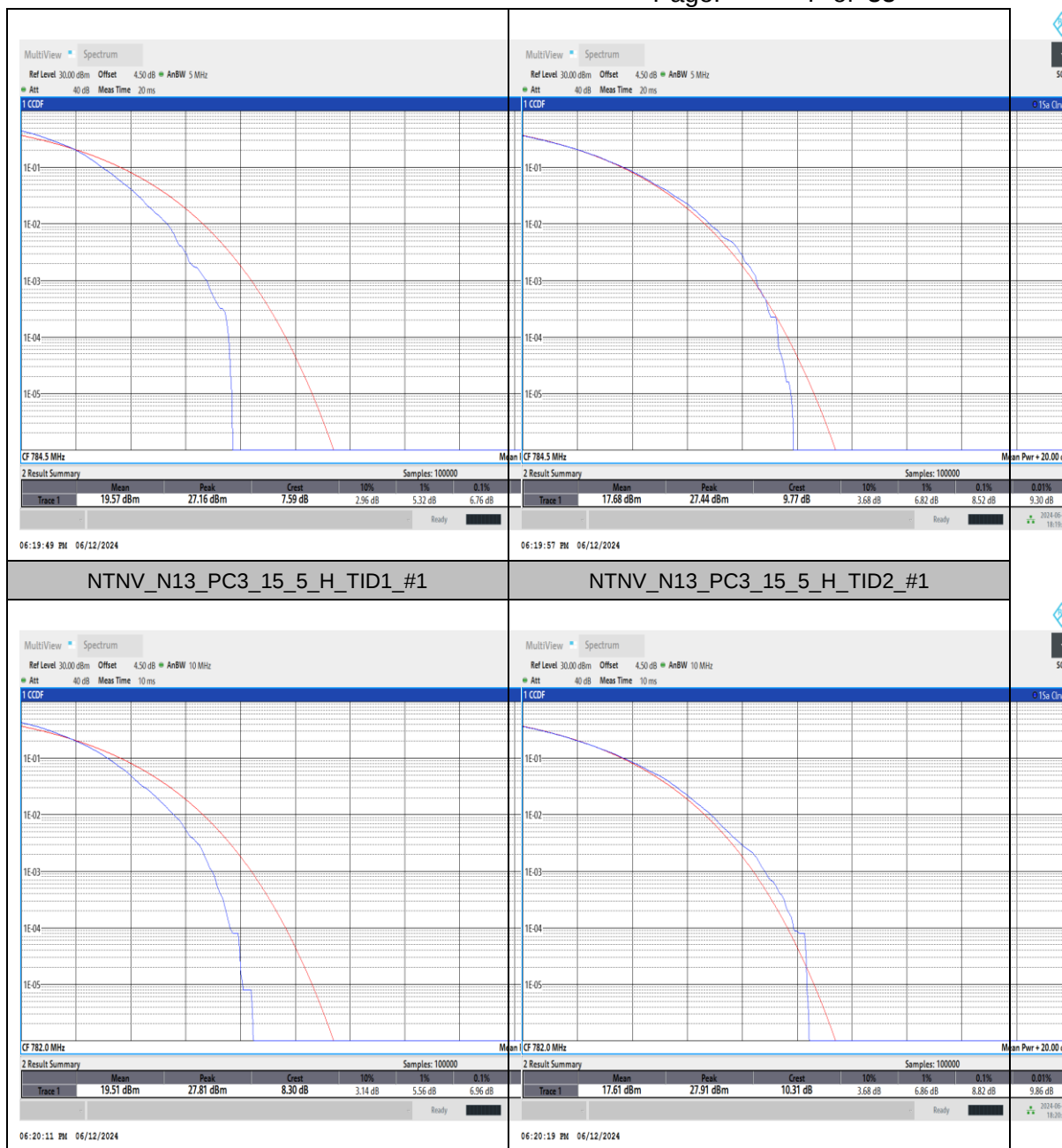
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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N13	15	5	DFT-QPSK	M	Outer_Full	4.486	5.070	PASS
N13	15	5	DFT-PI2BPSK	M	Outer_Full	4.51	5.150	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	4.55	5.280	PASS
N13	15	5	DFT-64QAM	M	Outer_Full	4.479	5.050	PASS
N13	15	5	DFT-256QAM	M	Outer_Full	4.507	5.200	PASS
N13	15	5	CP-QPSK	M	Outer_Full	4.559	5.230	PASS
N13	15	5	CP-16QAM	M	Outer_Full	4.533	5.250	PASS
N13	15	5	CP-64QAM	M	Outer_Full	4.505	5.100	PASS
N13	15	5	CP-256QAM	M	Outer_Full	4.48	5.040	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	8.907	9.600	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	8.903	9.520	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	8.939	9.640	PASS
N13	15	10	DFT-64QAM	M	Outer_Full	8.933	9.480	PASS
N13	15	10	DFT-256QAM	M	Outer_Full	8.904	9.480	PASS
N13	15	10	CP-QPSK	M	Outer_Full	9.259	10.020	PASS
N13	15	10	CP-16QAM	M	Outer_Full	9.269	10.020	PASS
N13	15	10	CP-64QAM	M	Outer_Full	9.262	10.020	PASS
N13	15	10	CP-256QAM	M	Outer_Full	9.277	10.060	PASS



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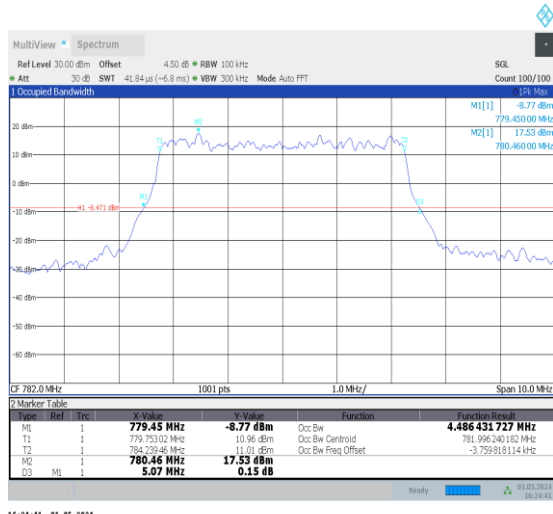
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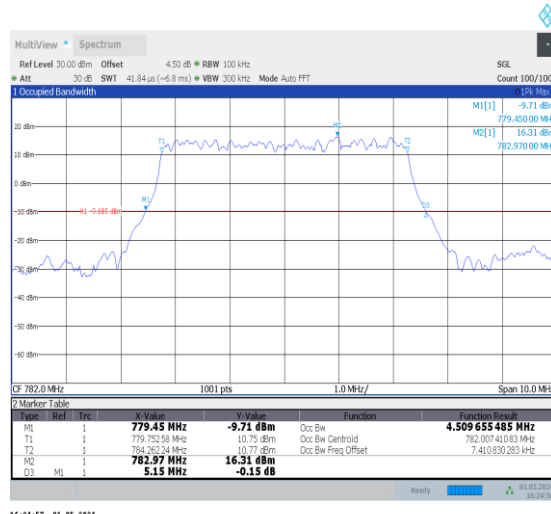
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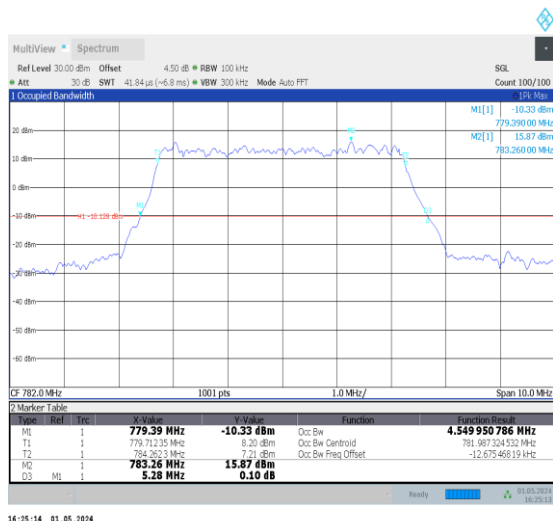
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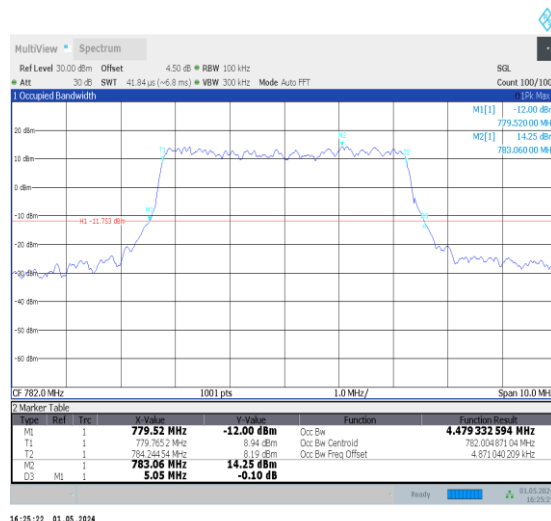
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@0-Ant0-4.51-5.150-≤5-PASS



1-N13-PC3-15-5-M-3-DFT-16QAM-Outter_Full-25@0
-Ant0-4.55-5.280-≤5-PASS



1-N13-PC3-15-5-M-4-DFT-64QAM-Outter_Full-25@0
-Ant0-4.479-5.050-≤5-PASS



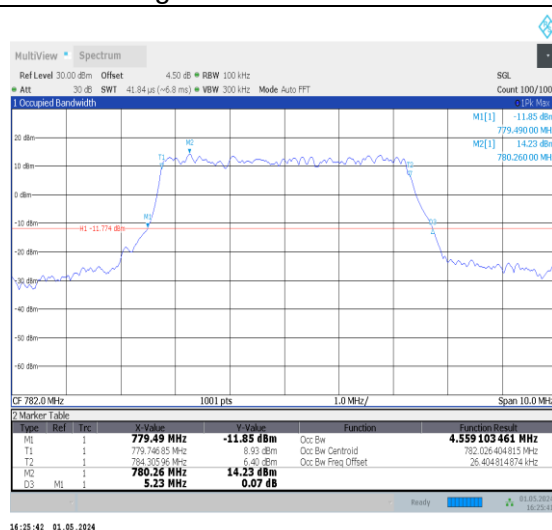
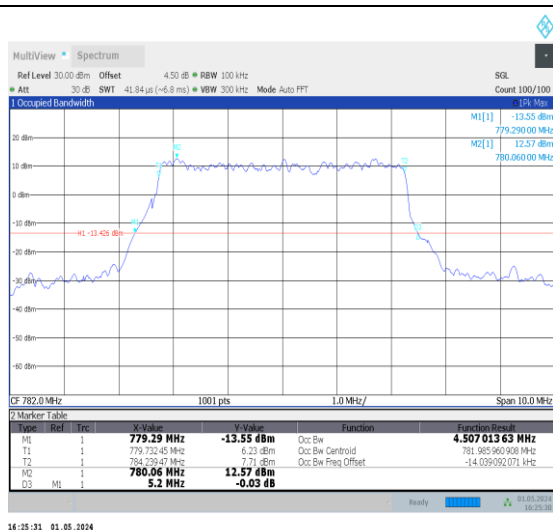
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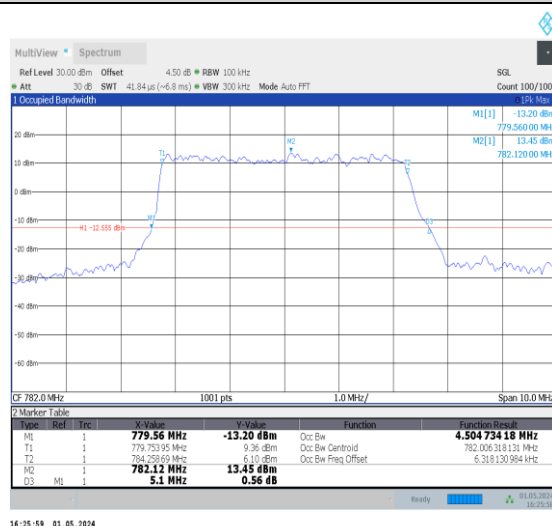
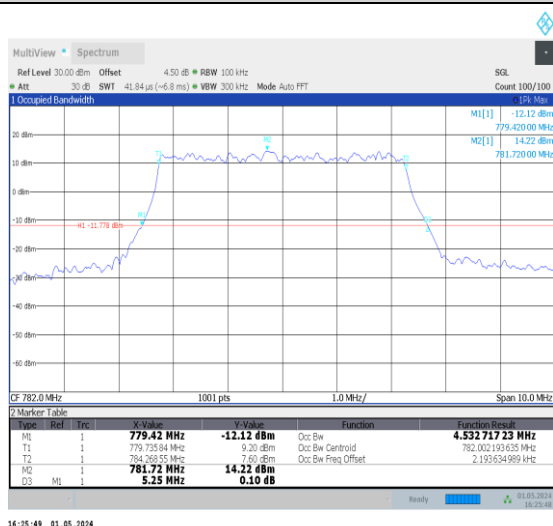
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1-N13-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant0-4.559-5.230-≤5-PASS



1-N13-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-Ant0-4.533-5.250-≤5-PASS

1-N13-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant0-4.505-5.100-≤5-PASS



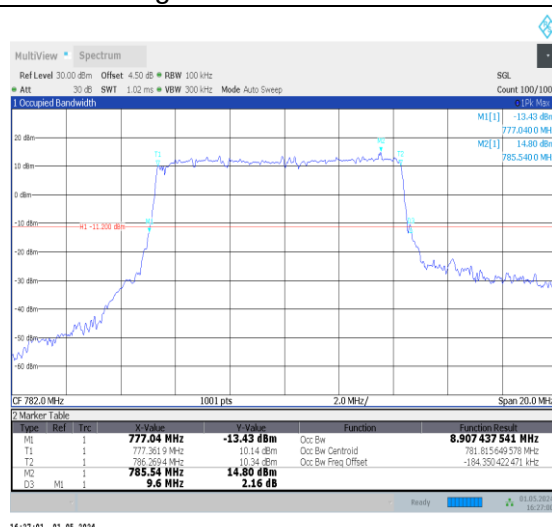
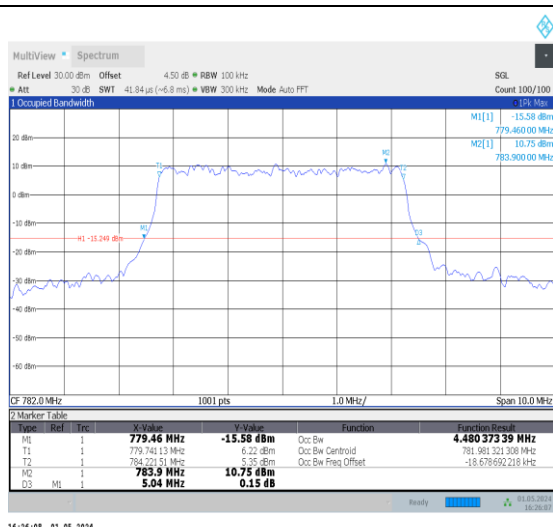
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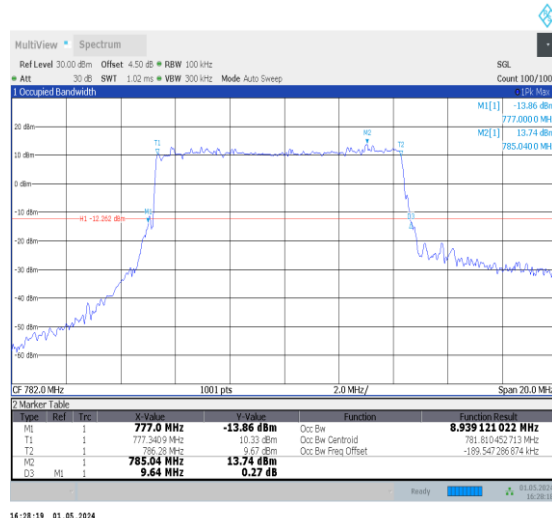
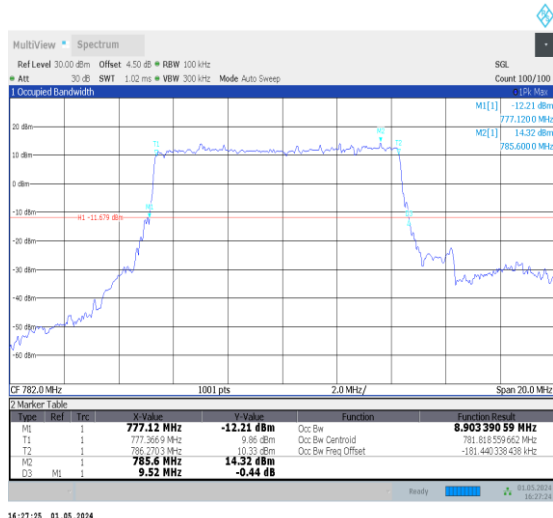
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1-N13-PC3-15-5-M-9-CP-256QAM-Outet_Full-25@0
-Ant0-4.48-5.040-≤5-PASS

1-N13-PC3-15-10-M-1-DFT-QPSK-Outet_Full-50@0
-Ant0-8.907-9.600-≤10-PASS



1-N13-PC3-15-10-M-2-DFT-PI2BPSK-Outet_Full-50@0-Ant0-8.903-9.520-≤10-PASS

1-N13-PC3-15-10-M-3-DFT-16QAM-Outet_Full-50@0-Ant0-8.939-9.640-≤10-PASS



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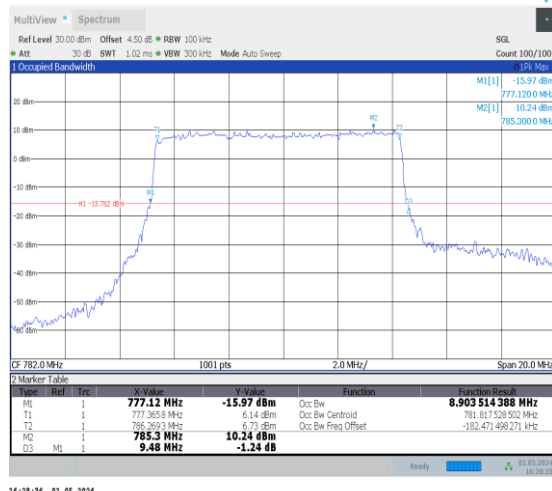
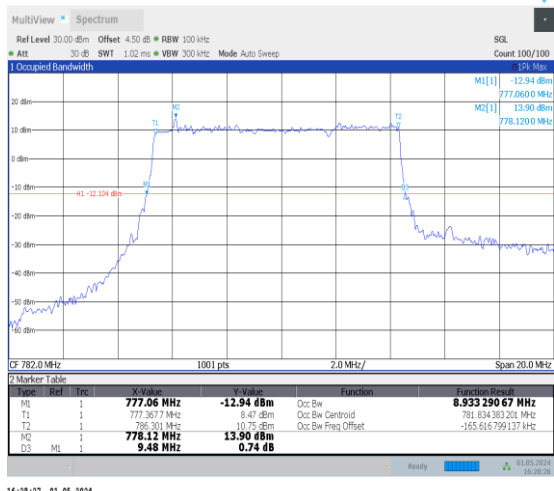
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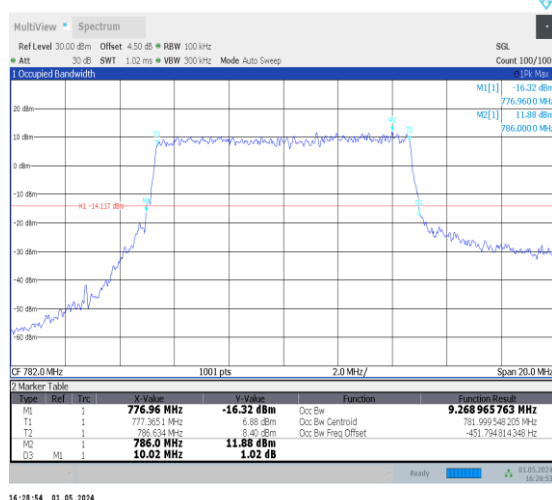
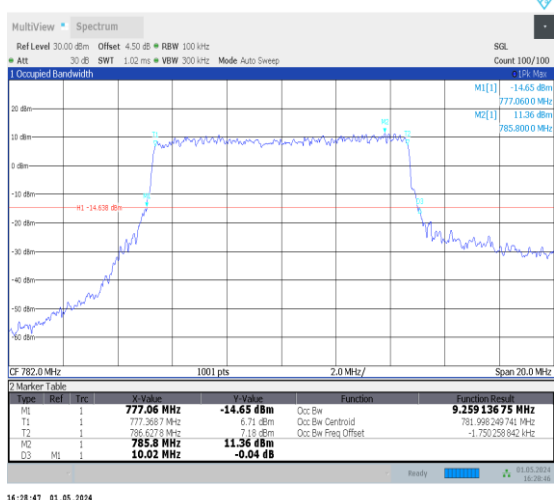
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1-N13-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@
0-Ant0-8.933-9.480-≤10-PASS

1-N13-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50
@0-Ant0-8.904-9.480-≤10-PASS



1-N13-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-
Ant0-9.259-10.020-≤10-PASS

1-N13-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0
-Ant0-9.269-10.020-≤10-PASS



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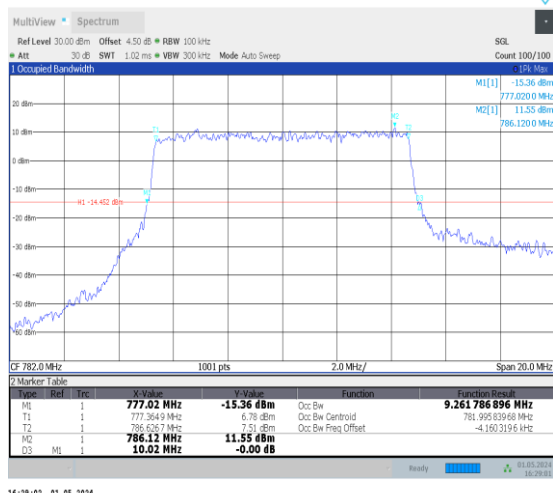
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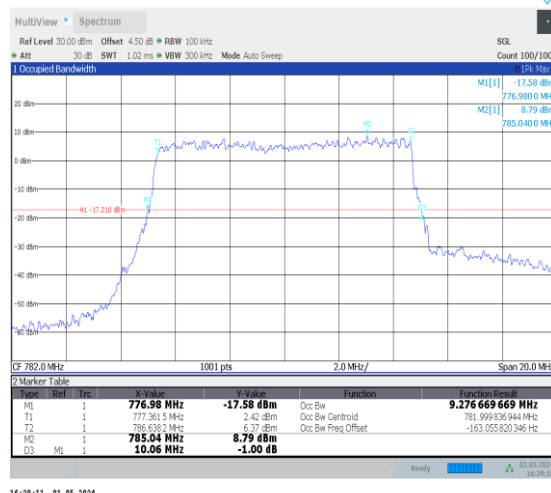
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-Ant0-9.262-10.020-≤10-PASS



1-N13-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@
0-Ant0-9.277-10.060-≤10-PASS



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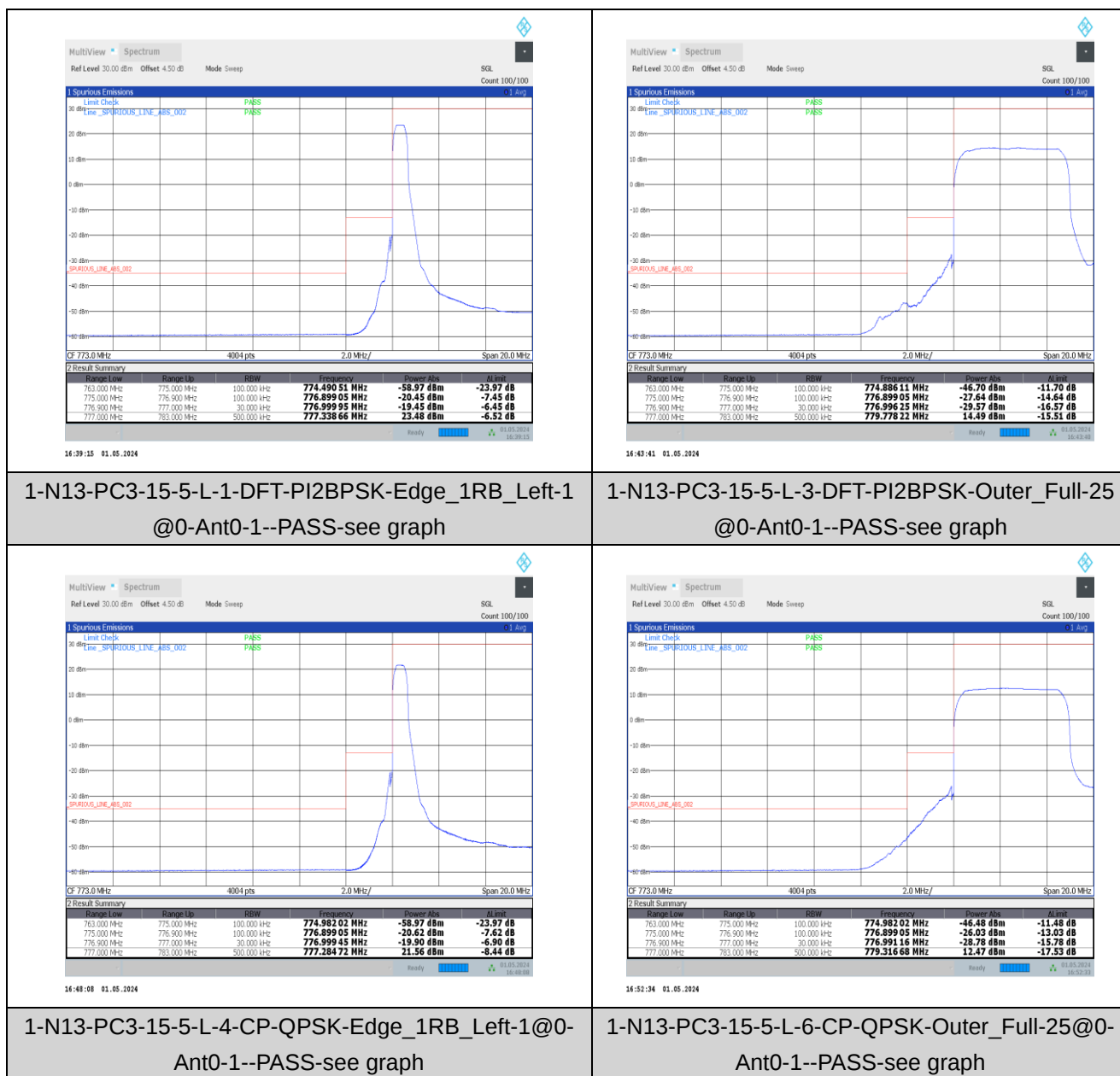
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Band Edge for SA

Test Graphs



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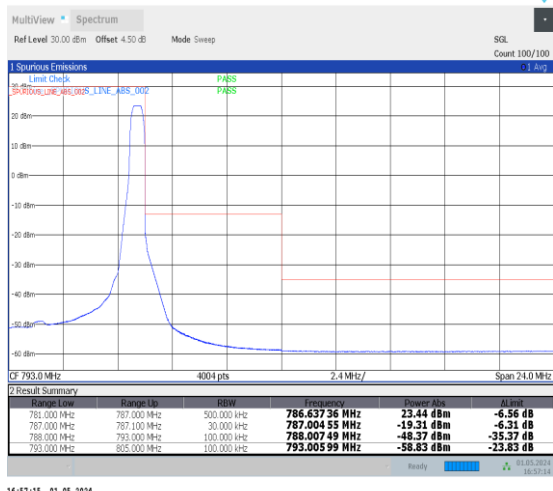
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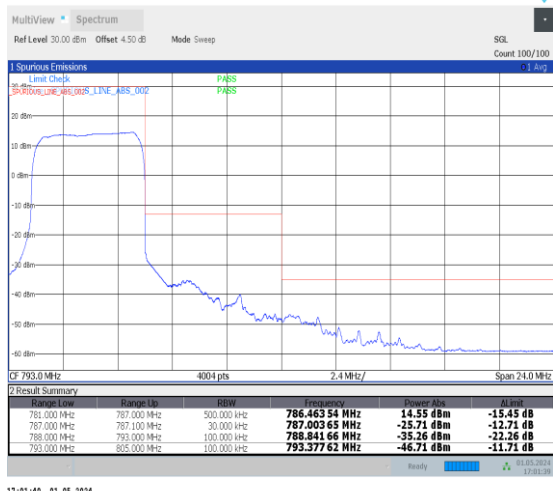
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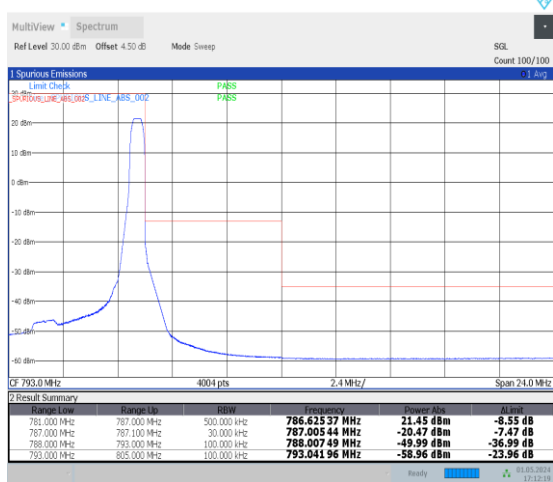
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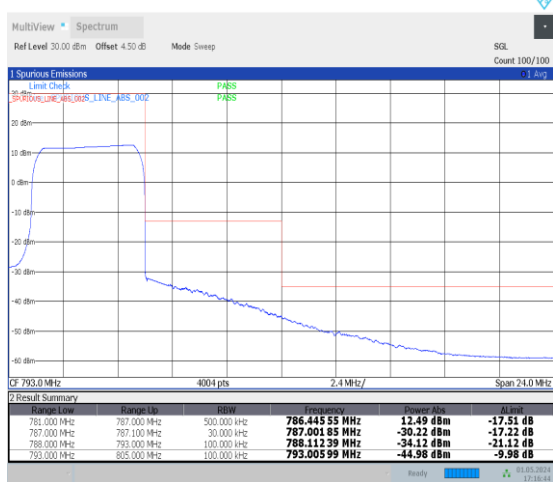
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17:12:19 01.05.2024

1-N13-PC3-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant0-1--PASS-see graph



17:16:45 01.05.2024

1-N13-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant0-1--PASS-see graph



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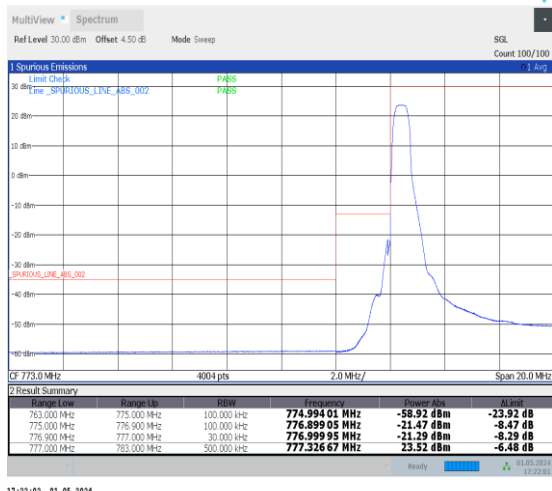
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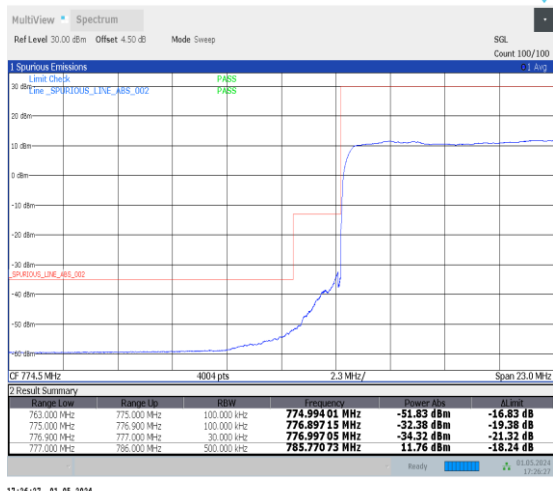
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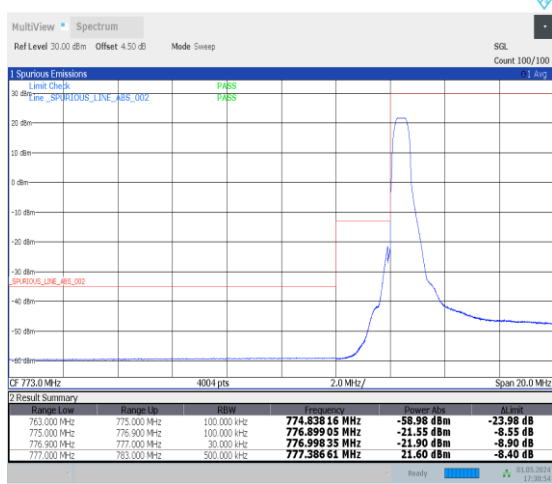
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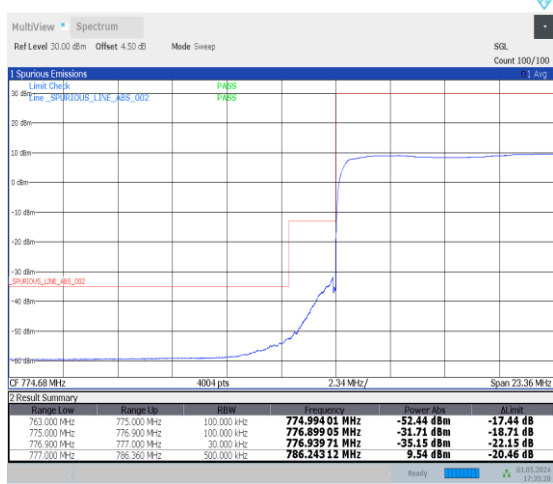
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1-N13-PC3-15-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N13-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant0-1--PASS-see graph



17:39:55 01.05.2024



17:39:59 01.05.2024

1-N13-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant0-1--PASS-see graph

1-N13-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant0-1--PASS-see graph



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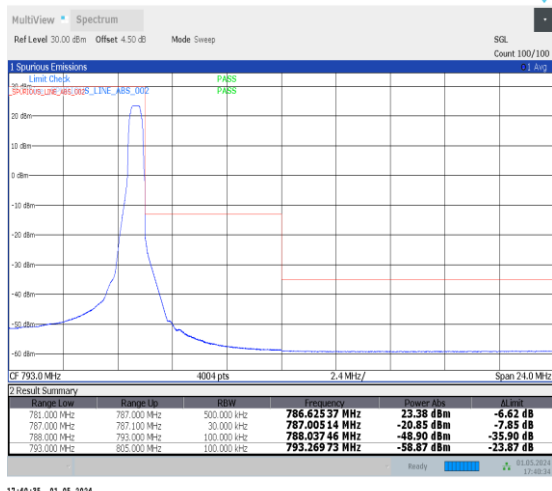
t (86-512) 62992980 www.sgsgroup.com.cn
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Report No.: SUCR240400008902

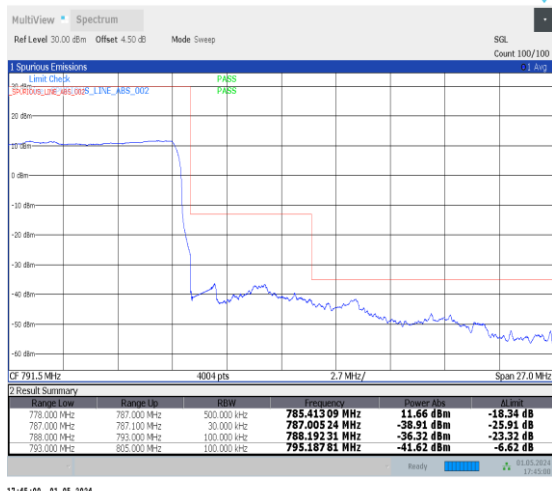
Rev.: 01

Page: 17 of 33



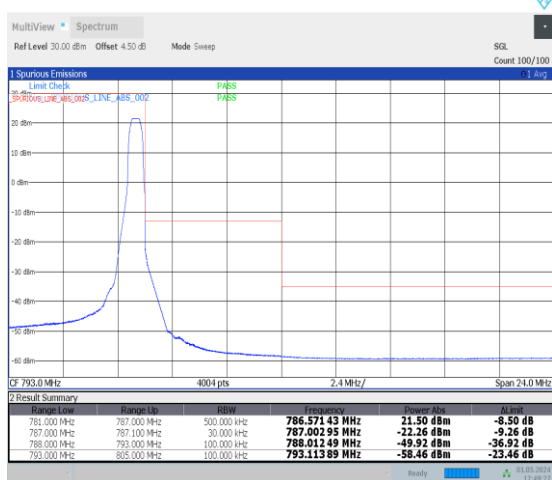
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17:45:00 01.05.2024

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17:49:28 01.05.2024

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17:53:53 01.05.2024

1-N13-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@ 0-Ant0-1--PASS-see graph



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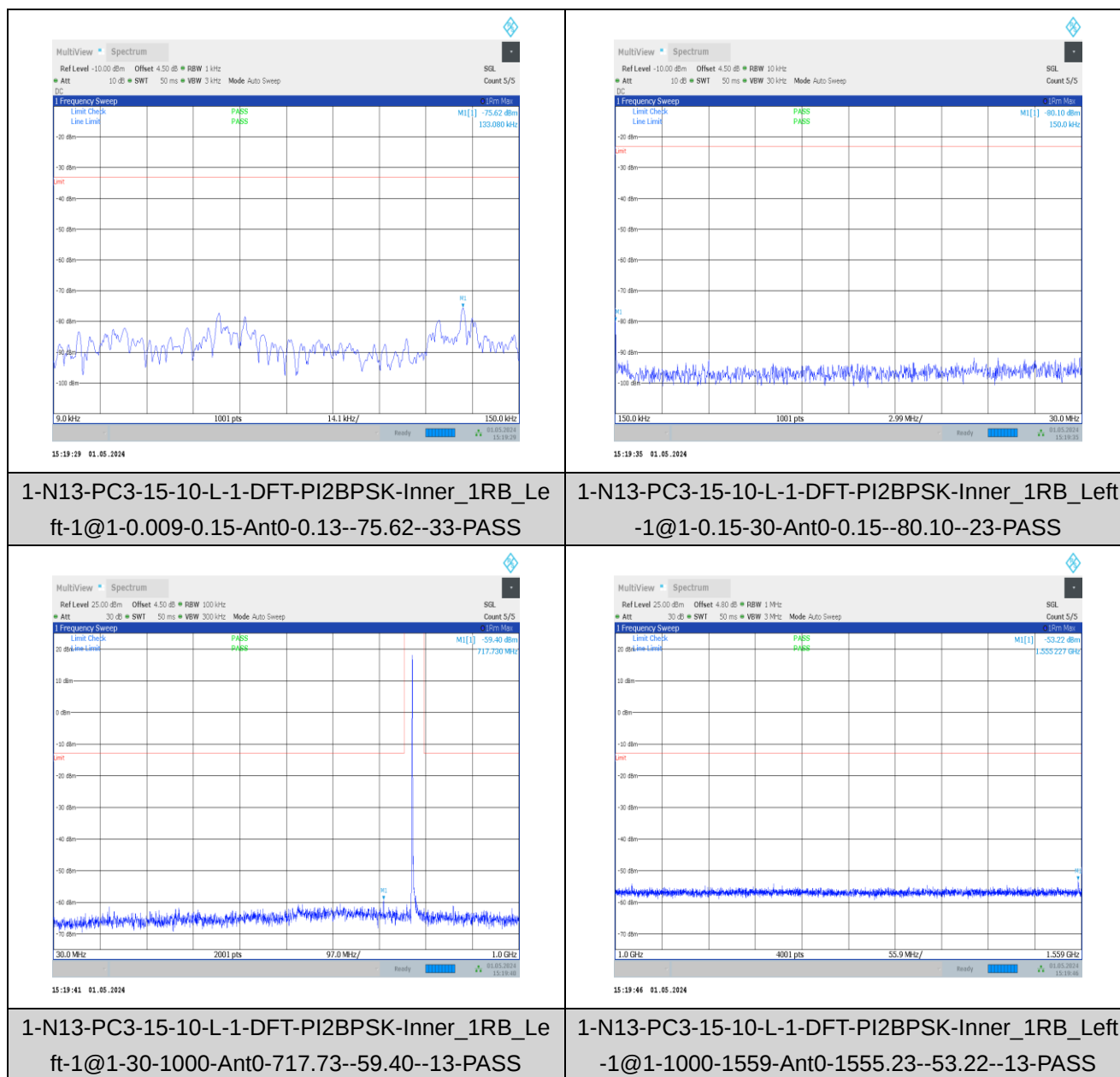
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Conducted Spurious Emission for SA

Test Graphs



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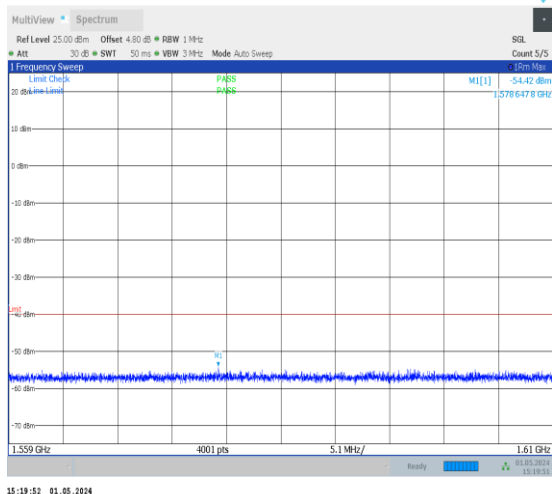
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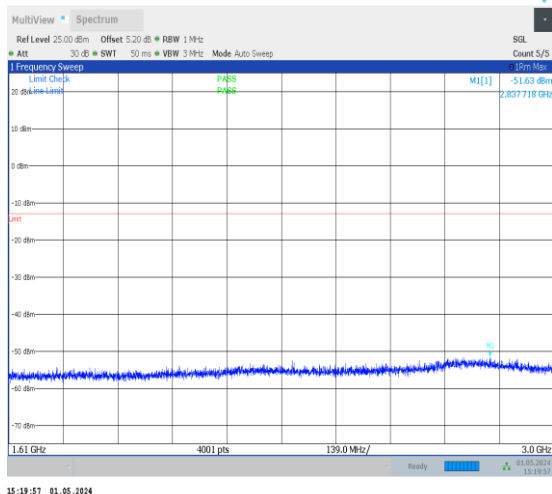
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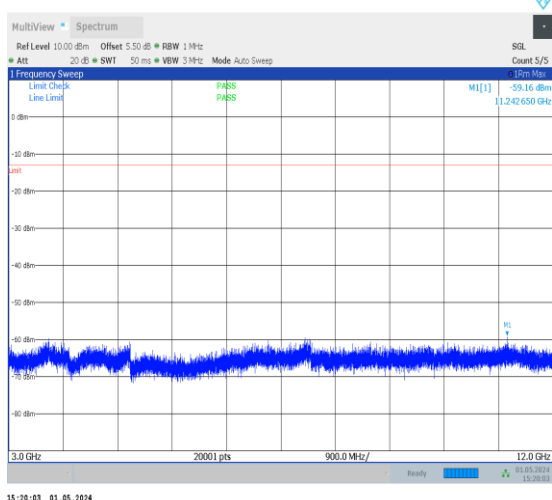
Page: 19 of 33



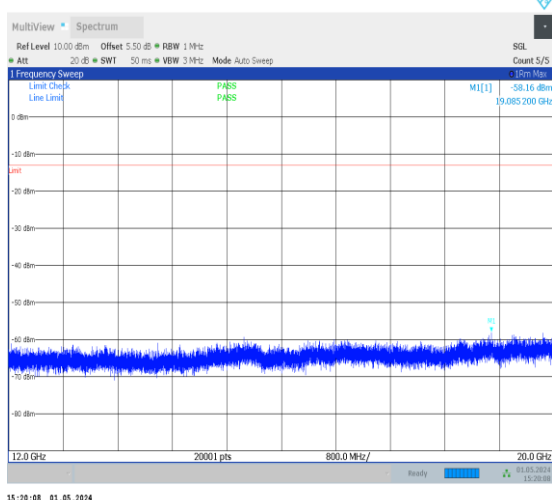
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1-N13-PC3-15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant0-11242.65--59.16--13-PASS



1-N13-PC3-15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant0-19085.20--58.16--13-PASS



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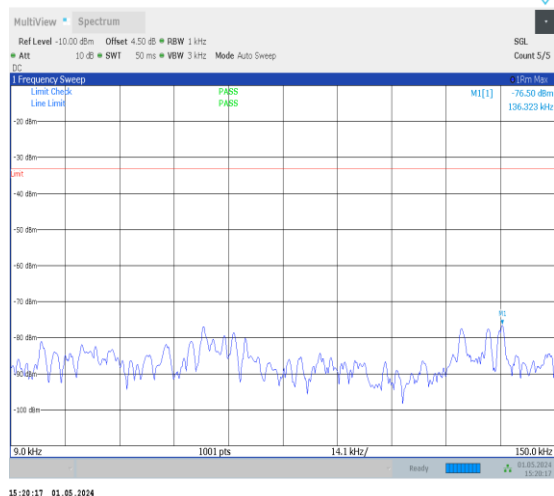
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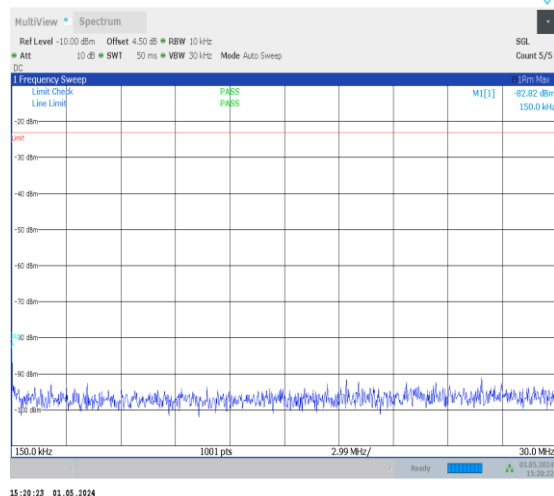
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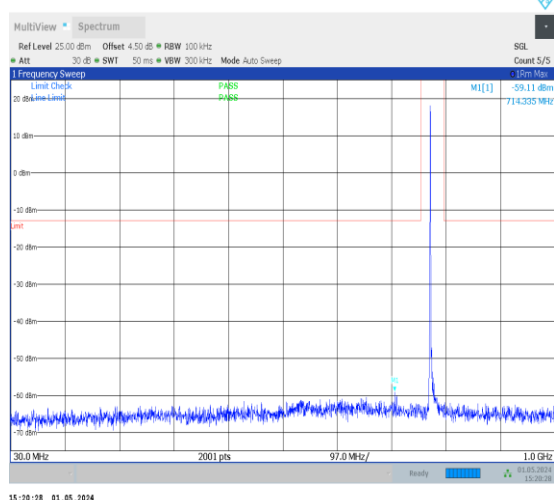
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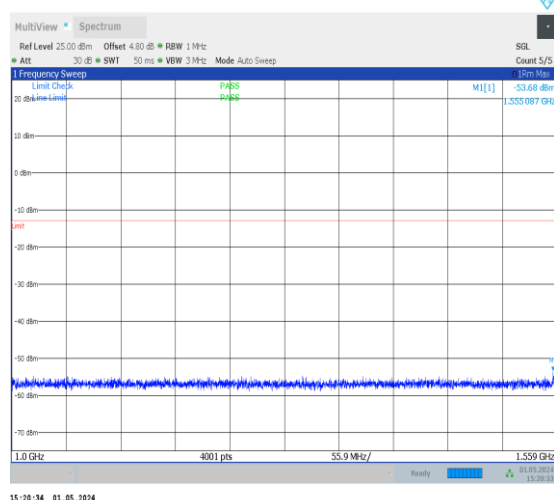
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1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_L ef
t-1@1-0.15-30-Ant0-0.15--82.82--23-PASS



1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-30-1000-Ant0-714.34--59.11--13-PASS



1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_L ef
t-1@1-1000-1559-Ant0-1555.09--53.68--13-PASS



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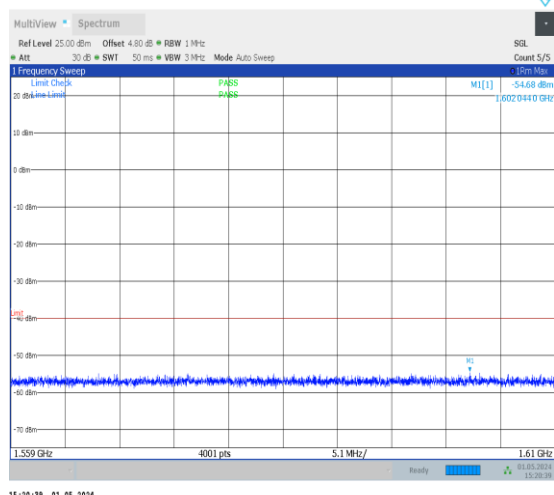
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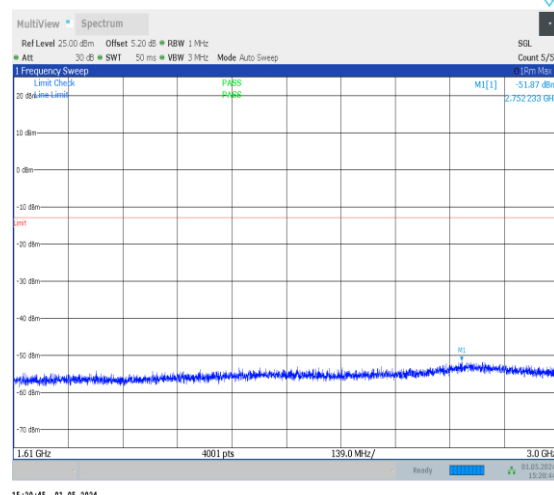
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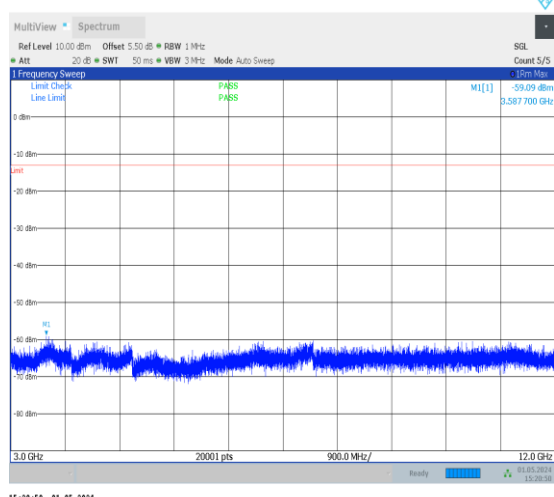
Page: 21 of 33



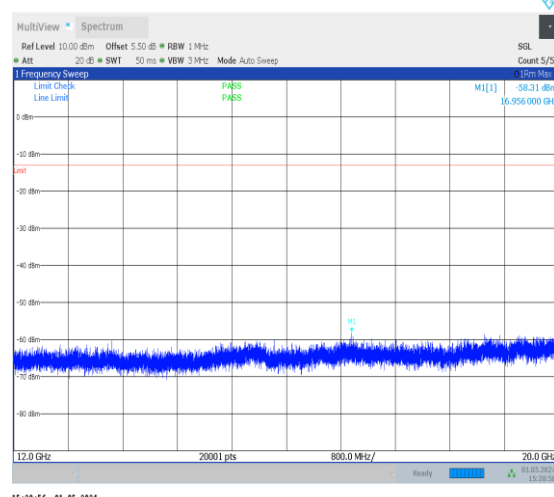
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t-1@1-1610-3000-Ant0-2752.23--51.87--13-PASS



1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-3000-12000-Ant0-3587.70--59.09--13-PAS
S



1-N13-PC3-15-10-M-1-DFT-PI2BPSK-Inner_1RB_L ef
t-1@1-12000-20000-Ant0-16956.00--58.31--13-PASS



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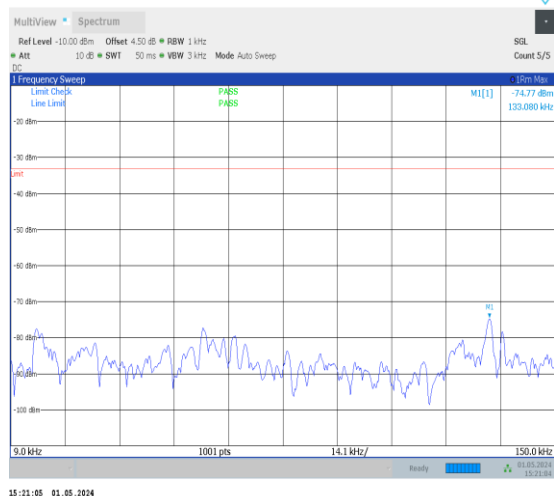
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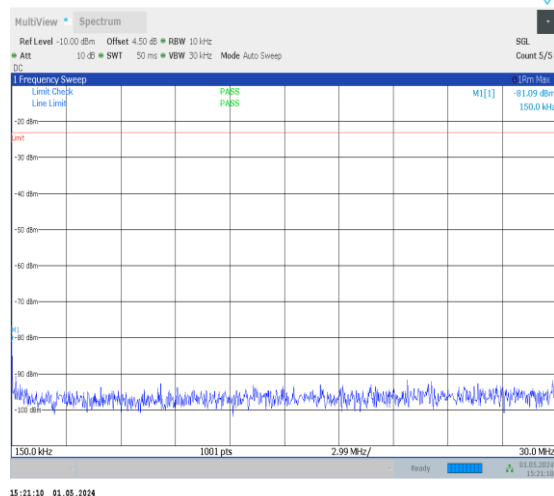
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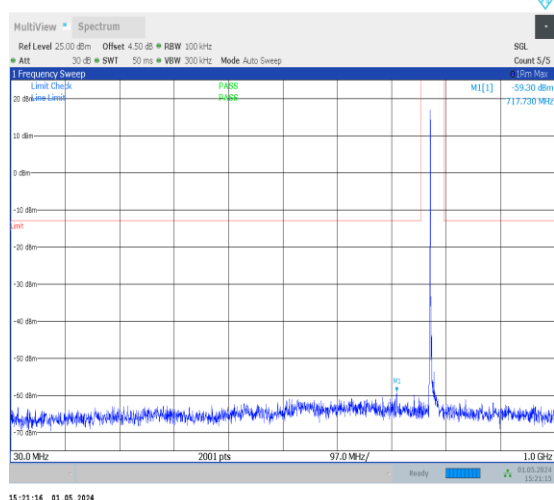
Page: 22 of 33



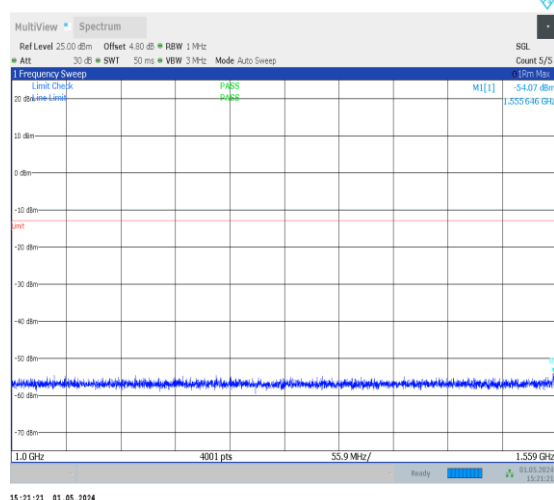
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1-N13-PC3-15-10-H-1-DFT-PI2BPSK-Inner_1RB_Lef-t1@1-30-1000-Ant0-717.73--59.30--13-PASS



1-N13-PC3-15-10-H-1-DFT-PI2BPSK-Inner_1RB_Lef-t1@1-1000-1559-Ant0-1555.65--54.07--13-PASS



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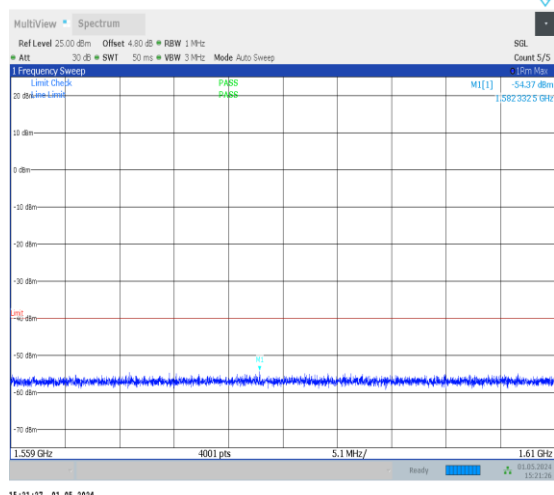
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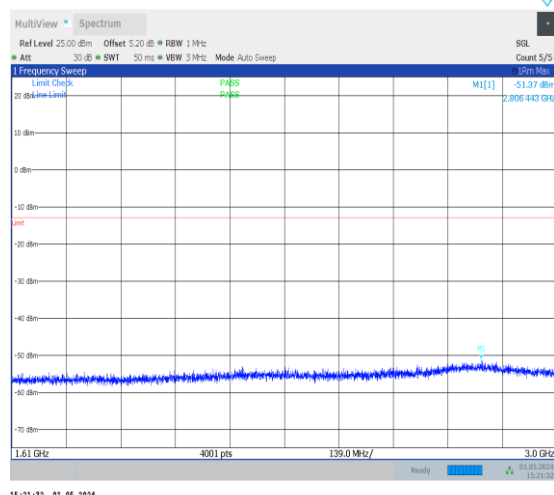
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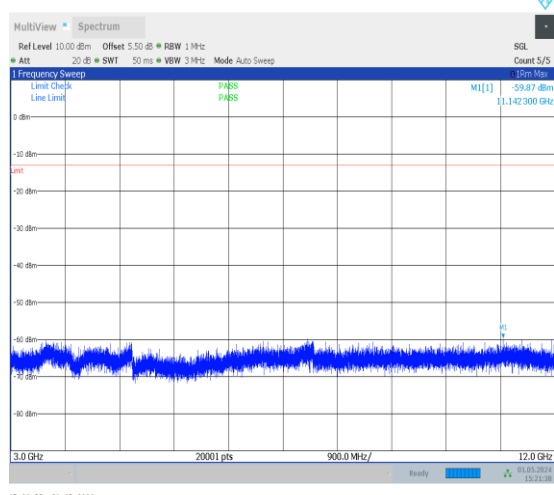
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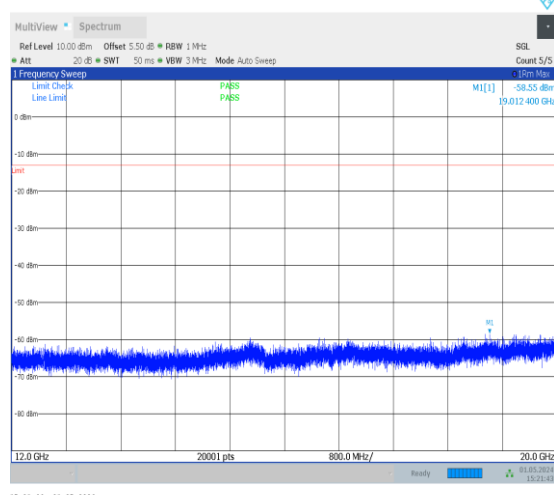
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1-N13-PC3-15-10-H-1-DFT-PI2BPSK-Inner_1RB_Lef
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1-N13-PC3-15-10-H-1-DFT-PI2BPSK-Inner_1RB_Lef
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Field Strength of Spurious Radiation

For report SUCR240400009002:

Test Band = SA_N13_5MHz

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1093	56.68	-54.13	25.79	-66.92	-13.00	53.92	Horizontal
2	1598	55.37	-53.53	25.80	-67.62	-40.00	27.62	Horizontal
3	3041	53.70	-50.40	29.88	-62.08	-13.00	49.08	Horizontal
4	5525	51.76	-44.36	33.15	-54.71	-13.00	41.71	Horizontal
5	8059	49.85	-41.17	37.58	-49.00	-13.00	36.00	Horizontal
6	9659.5	48.54	-39.04	38.78	-46.98	-13.00	33.98	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1114	55.80	-54.03	25.83	-67.66	-13.00	54.66	Vertical
2	1604.5	55.73	-53.49	25.81	-67.21	-40.00	27.21	Vertical
3	2093	54.60	-52.59	27.44	-65.81	-13.00	52.81	Vertical
4	4217.5	52.71	-47.70	31.71	-58.54	-13.00	45.54	Vertical
5	7013	51.04	-43.40	36.45	-51.17	-13.00	38.17	Vertical
6	8843	49.74	-40.73	38.57	-47.68	-13.00	34.68	Vertical



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Test Band = SA_N13_5MHz

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1133	56.60	-53.77	25.87	-66.56	-13.00	53.56	Horizontal
2	1574	55.28	-53.55	25.85	-67.68	-40.00	27.68	Horizontal
3	1768	56.20	-53.18	25.57	-66.67	-13.00	53.67	Horizontal
4	2752.5	53.80	-51.17	28.70	-63.93	-13.00	50.93	Horizontal
5	4552	52.57	-46.20	32.10	-56.79	-13.00	43.79	Horizontal
6	7227	50.79	-43.26	37.15	-50.58	-13.00	37.58	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1310.5	55.68	-53.95	25.66	-67.87	-13.00	54.87	Vertical
2	1599	55.23	-53.53	25.80	-67.76	-40.00	27.76	Vertical
3	1767	63.74	-53.18	25.57	-59.13	-13.00	46.13	Vertical
4	2603	54.29	-51.73	28.39	-64.31	-13.00	51.31	Vertical
5	4949	51.53	-44.24	33.20	-54.77	-13.00	41.77	Vertical
6	7396	50.77	-42.01	36.81	-49.69	-13.00	36.69	Vertical



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Test Band = SA_N13_5MHz
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1219.5	55.57	-53.89	25.64	-67.94	-13.00	54.94	Horizontal
2	1585.5	55.10	-53.54	25.83	-67.87	-40.00	27.87	Horizontal
3	2574.5	54.49	-51.67	28.35	-64.09	-13.00	51.09	Horizontal
4	4306.5	52.85	-46.93	31.81	-57.53	-13.00	44.53	Horizontal
5	6083.5	51.64	-44.17	34.47	-53.32	-13.00	40.32	Horizontal
6	8552	49.26	-40.78	39.06	-47.72	-13.00	34.72	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1360	55.48	-53.70	25.88	-67.60	-13.00	54.60	Vertical
2	1607	55.73	-53.47	25.81	-67.19	-40.00	27.19	Vertical
3	2612.5	58.51	-51.69	28.38	-60.06	-13.00	47.06	Vertical
4	3839.5	53.13	-48.07	30.42	-59.78	-13.00	46.78	Vertical
5	6088	51.80	-44.23	34.48	-53.21	-13.00	40.21	Vertical
6	8074.5	49.78	-41.35	37.55	-49.28	-13.00	36.28	Vertical



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Test Band = SA_N13_10MHz
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1156	55.46	-53.59	25.86	-67.53	-13.00	54.53	Horizontal
2	1587	55.42	-53.54	25.83	-67.55	-40.00	27.55	Horizontal
3	2348	54.08	-52.07	27.89	-65.36	-13.00	52.36	Horizontal
4	3745.5	53.33	-49.16	30.48	-60.61	-13.00	47.61	Horizontal
5	5461.5	51.73	-45.01	33.33	-55.21	-13.00	42.21	Horizontal
6	8050	49.60	-41.07	37.60	-49.13	-13.00	36.13	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1225	55.70	-53.90	25.65	-67.81	-13.00	54.81	Vertical
2	1570	54.97	-53.55	25.86	-67.98	-40.00	27.98	Vertical
3	2467.5	54.37	-51.89	27.94	-64.84	-13.00	51.84	Vertical
4	3979.5	53.46	-48.18	31.02	-58.96	-13.00	45.96	Vertical
5	5697.5	51.70	-44.16	33.49	-54.23	-13.00	41.23	Vertical
6	8252.5	49.55	-41.26	37.12	-49.85	-13.00	36.85	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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For report SUCR240400008902:

Test Band = SA Band 13 BW=10M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.18	41.28	-46.92	24.71	-76.19	-13.00	63.19	Horizontal
2	2332.77	39.55	-45.39	27.03	-74.07	-13.00	61.07	Horizontal
3	3110.36	36.99	-43.99	29.52	-72.73	-13.00	59.73	Horizontal
4	3887.95	36.35	-42.90	30.92	-70.90	-13.00	57.90	Horizontal
5	4665.54	36.30	-41.59	32.47	-68.08	-13.00	55.08	Horizontal
6	5443.13	35.42	-40.74	33.11	-67.47	-13.00	54.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.18	41.49	-46.92	24.71	-75.98	-13.00	62.98	Vertical
2	2332.77	38.23	-45.39	27.03	-75.39	-13.00	62.39	Vertical
3	3110.36	36.30	-43.99	29.52	-73.42	-13.00	60.42	Vertical
4	3887.95	35.55	-42.90	30.92	-71.70	-13.00	58.70	Vertical
5	4665.54	35.18	-41.59	32.47	-69.20	-13.00	56.20	Vertical
6	5443.13	35.40	-40.74	33.11	-67.49	-13.00	54.49	Vertical



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Test Band = SA Band 13 BW=5M_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.68	43.89	-46.92	24.71	-73.58	-13.00	60.58	Horizontal
2	2332.02	39.18	-45.39	27.03	-74.44	-13.00	61.44	Horizontal
3	3109.36	36.75	-43.99	29.52	-72.98	-13.00	59.98	Horizontal
4	3886.7	35.29	-42.91	30.92	-71.96	-13.00	58.96	Horizontal
5	4664.04	37.43	-41.59	32.46	-66.96	-13.00	53.96	Horizontal
6	5441.38	36.04	-40.74	33.11	-66.85	-13.00	53.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.68	43.12	-46.92	24.71	-74.35	-13.00	61.35	Vertical
2	2332.02	38.03	-45.39	27.03	-75.59	-13.00	62.59	Vertical
3	3109.36	37.01	-43.99	29.52	-72.72	-13.00	59.72	Vertical
4	3886.7	35.69	-42.91	30.92	-71.56	-13.00	58.56	Vertical
5	4664.04	36.80	-41.59	32.46	-67.59	-13.00	54.59	Vertical
6	5441.38	35.06	-40.74	33.11	-67.83	-13.00	54.83	Vertical



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Test Band = SA Band 13 BW=5M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2339.5	49.21	-45.38	27.05	-64.38	-13.00	51.38	Horizontal
2	1559.68	42.26	-46.91	24.70	-75.21	-40.00	35.21	Horizontal
3	3119.36	37.11	-43.97	29.52	-72.60	-13.00	59.60	Horizontal
4	3899.2	35.51	-42.89	30.96	-71.68	-13.00	58.68	Horizontal
5	4679.04	35.90	-41.55	32.49	-68.41	-13.00	55.41	Horizontal
6	5458.88	34.82	-40.71	33.11	-68.04	-13.00	55.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.68	43.26	-46.91	24.70	-74.21	-40.00	34.21	Vertical
2	2339.52	37.91	-45.38	27.05	-75.68	-13.00	62.68	Vertical
3	3119.36	36.46	-43.97	29.52	-73.25	-13.00	60.25	Vertical
4	3899.2	35.42	-42.89	30.96	-71.77	-13.00	58.77	Vertical
5	4679.04	35.93	-41.55	32.49	-68.38	-13.00	55.38	Vertical
6	5458.88	35.15	-40.71	33.11	-67.71	-13.00	54.71	Vertical



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Test Band = SA Band 13 BW=5M_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2347	41.85	-45.37	27.06	-71.71	-13.00	58.71	Horizontal
2	1564.68	41.32	-46.89	24.69	-76.14	-40.00	36.14	Horizontal
3	3129.36	36.28	-43.96	29.53	-73.42	-13.00	60.42	Horizontal
4	3911.7	35.35	-42.88	31.00	-71.79	-13.00	58.79	Horizontal
5	4694.04	36.12	-41.50	32.53	-68.11	-13.00	55.11	Horizontal
6	5476.38	35.04	-40.67	33.10	-67.79	-13.00	54.79	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.68	42.42	-46.89	24.69	-75.04	-40.00	35.04	Vertical
2	2347.02	38.42	-45.36	27.06	-75.14	-13.00	62.14	Vertical
3	3129.36	36.20	-43.96	29.53	-73.50	-13.00	60.50	Vertical
4	3911.7	35.10	-42.88	31.00	-72.04	-13.00	59.04	Vertical
5	4694.04	36.57	-41.50	32.53	-67.66	-13.00	54.66	Vertical
6	5476.38	35.09	-40.67	33.10	-67.74	-13.00	54.74	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
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	0.000000	0.000000	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-1.200000	-0.001535	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.700000	-0.003453	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VH	NT	1.300000	0.001662	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VN	NT	7.300000	0.009335	PASS
N13	15	10	CP-QPSK	M	Outer_Full	VL	NT	0.600000	0.000767	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	1.500000	0.001918	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.300000	-0.002941	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	0.600000	0.000767	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.800000	-0.001023	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-0.500000	-0.000639	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	0.000000	0.000000	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	3.500000	0.004476	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	0.700000	0.000895	PASS
N13	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.700000	-0.000895	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	50	2.500000	0.003197	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-20	2.900000	0.003708	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-10	4.600000	0.005882	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	0	1.000000	0.001279	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	10	4.100000	0.005243	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	20	4.800000	0.006138	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	30	7.100000	0.009079	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	40	3.100000	0.003964	PASS
N13	15	10	CP-QPSK	M	Outer_Full	NV	-30	6.500000	0.008312	PASS

---End of Attachment---



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