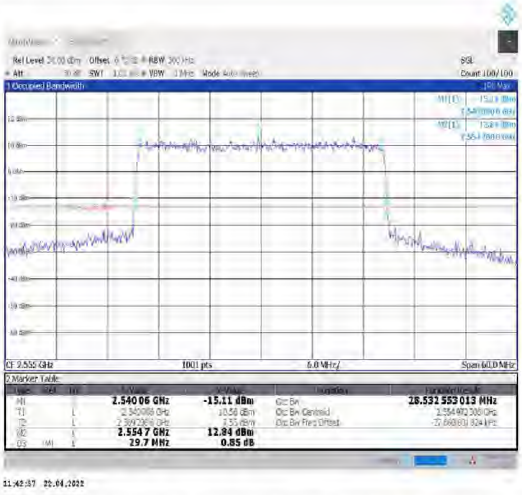

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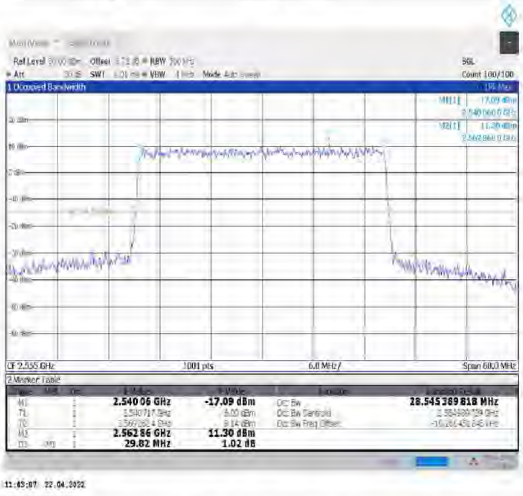

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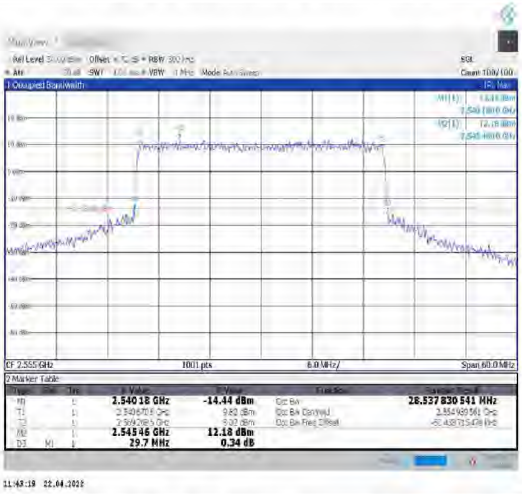

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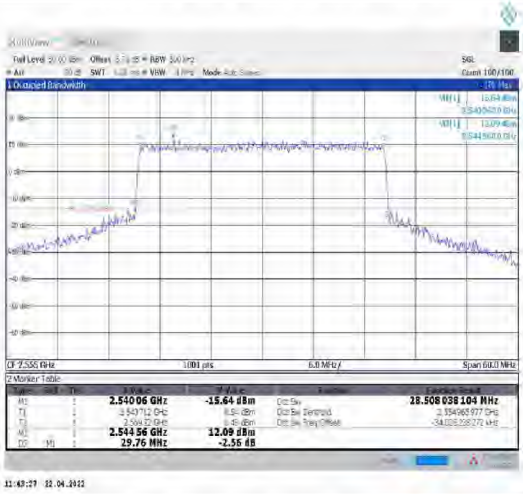

1-N7--15-30-H-7-CP-16QAM-Outer_Full-160@0-Ant1-28.509-29.760-≤30-PASS

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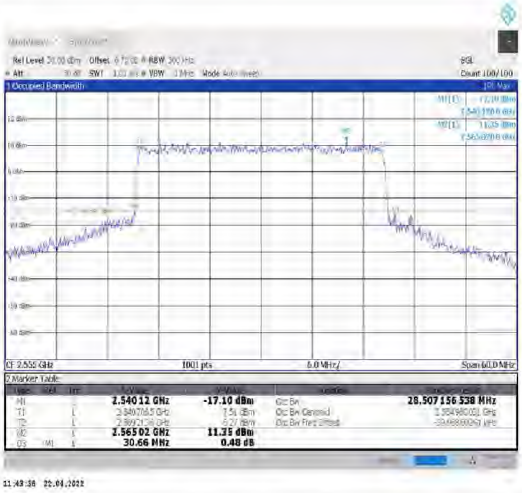

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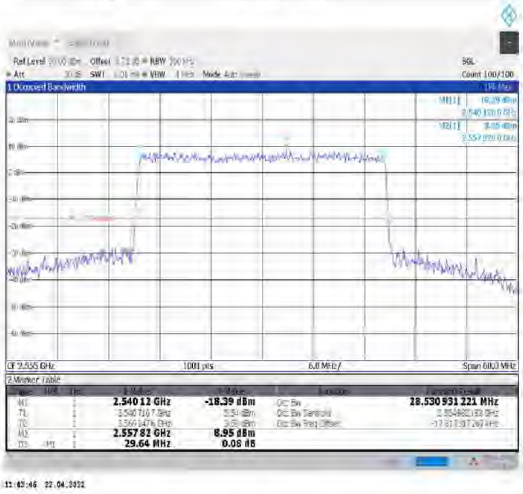

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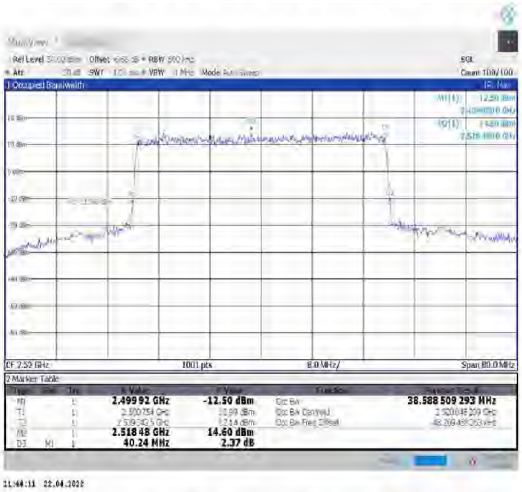

1-N7--15-40-L-1-DFT-QPSK-Outer_Full-216@0-Ant1-38.595-40.240-≤40-PASS

1-N7--15-40-L-2-DFT-PI2BPSK-Outer_Full-216@0-Ant1-38.552-40.320-≤40-PASS

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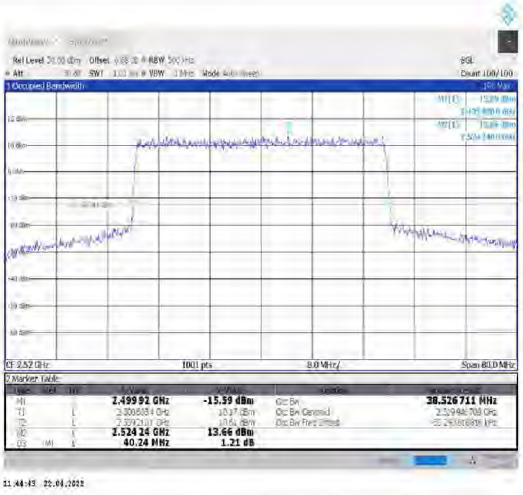

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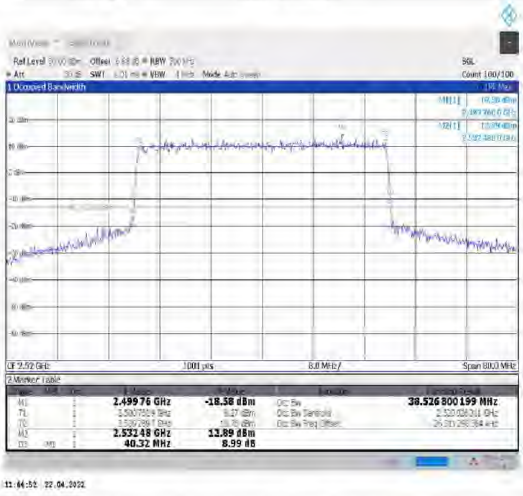

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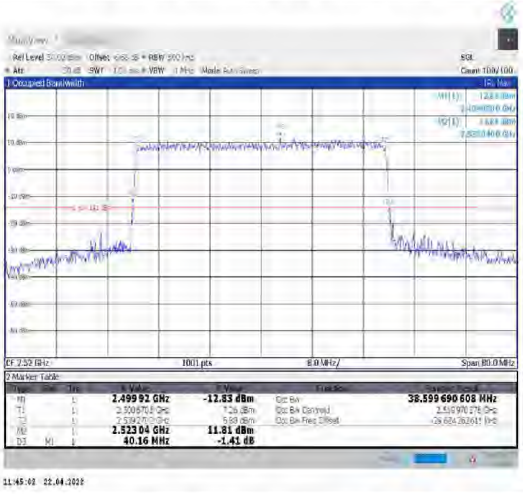

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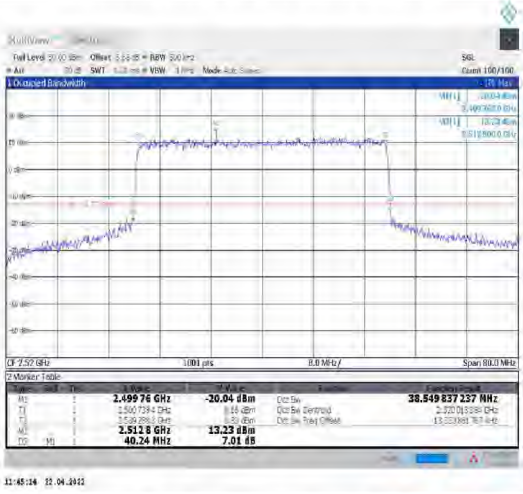

1-N7--15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant1-38.559-40.240-≤40-PASS

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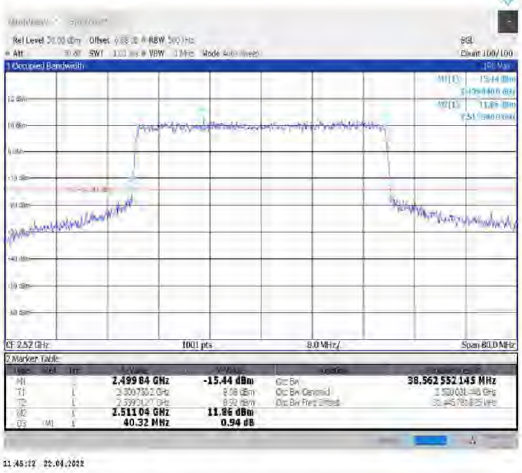

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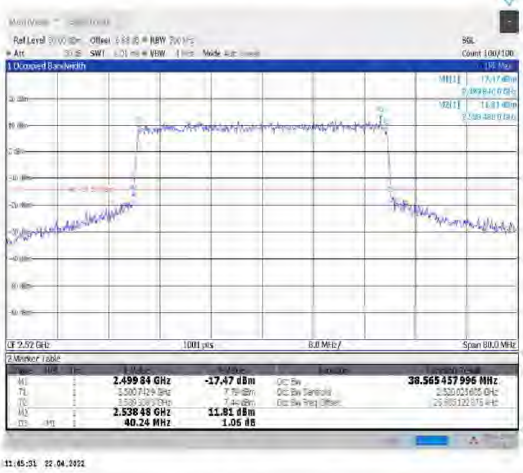

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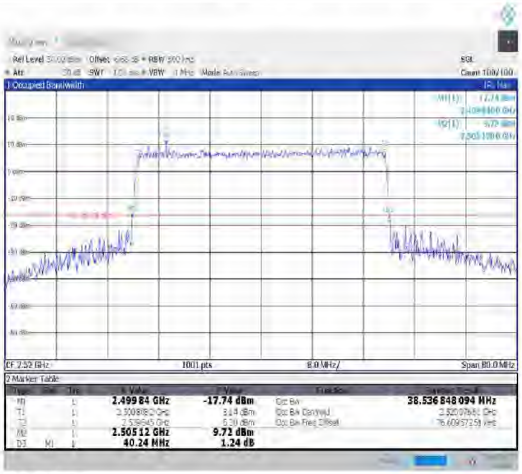

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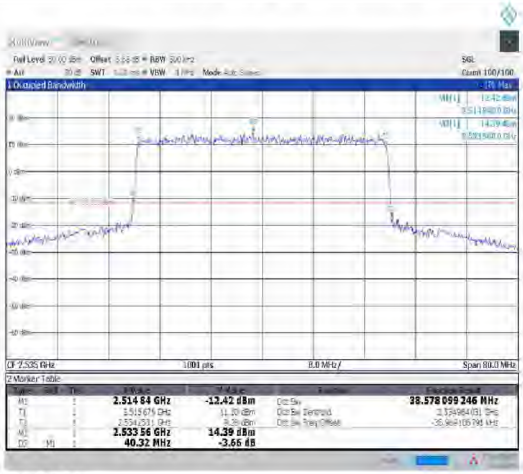

1-N7--15-40-M-1-DFT-QPSK-Outer_Full-216@0-Ant1-38.595-40.320-≤40-PASS

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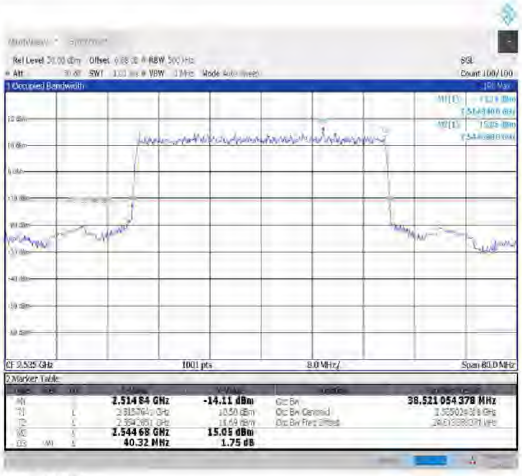
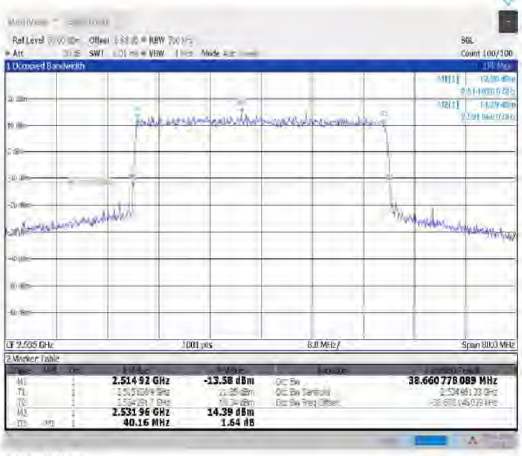


1-N7--15-40-M-2-DFT-PI2BPSK-Outer_Full-216@0-Ant1-38.537-40.320-≤40-PASS



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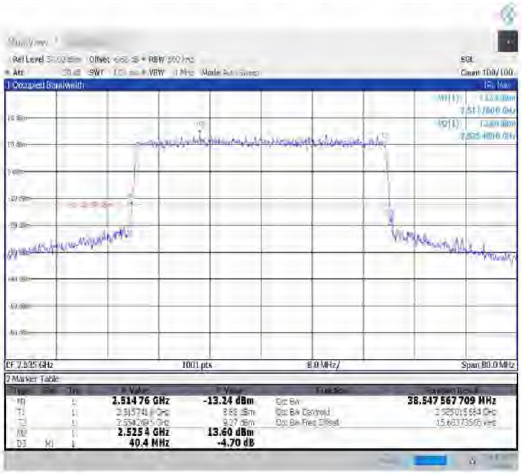

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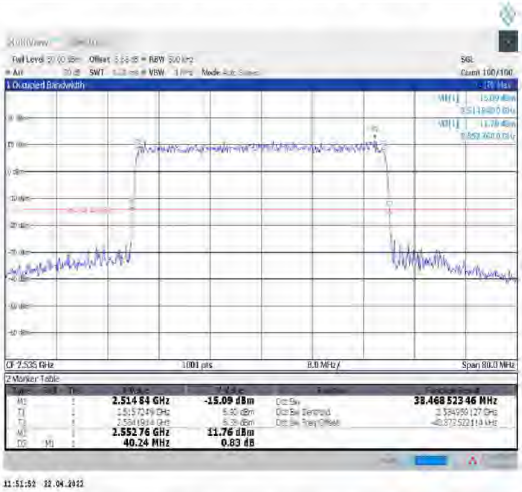

1-N7--15-40-M-5-DFT-256QAM-Outer_Full-216@0-Ant1-38.487-40.240-≤40-PASS

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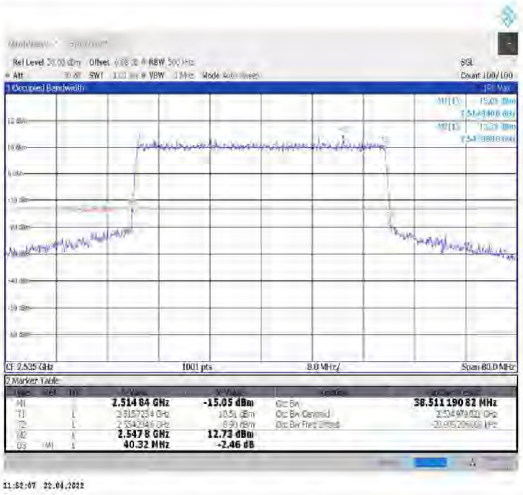
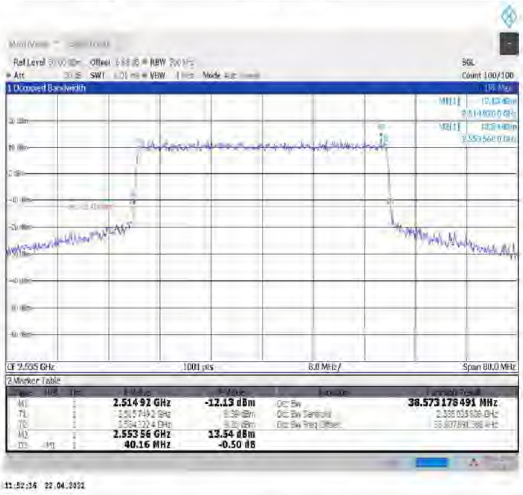
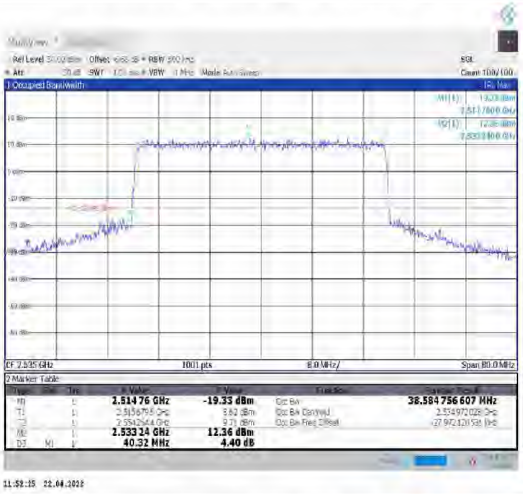


1-N7--15-40-M-6-CP-QPSK-Outer_Full-216@0-Ant1-38.524-40.320-≤40-PASS



1-N7--15-40-M-7-CP-16QAM-Outer_Full-216@0-Ant1-38.575-40.160-≤40-PASS



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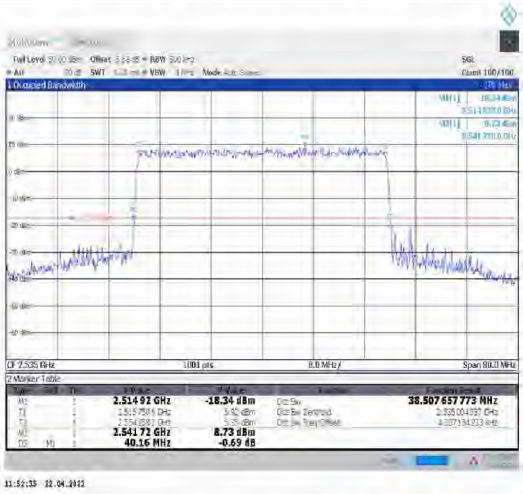

1-N7--15-40-M-9-CP-256QAM-Outer_Full-216@0-Ant1-38.491-40.160-≤40-PASS

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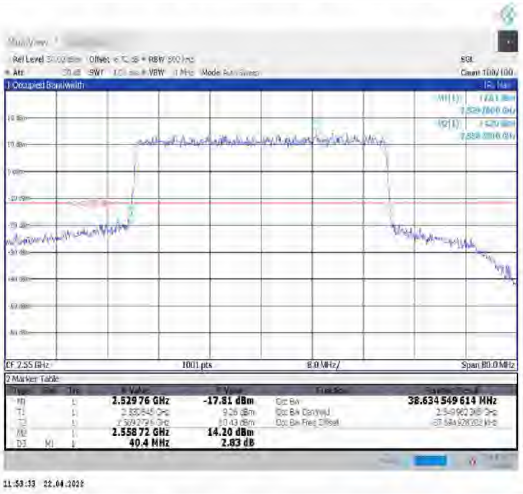
1-N7--15-40-H-1-DFT-QPSK-Outer_Full-216@0-Ant1-38.605-40.160-≤40-PASS

1-N7--15-40-H-2-DFT-PI2BPSK-Outer_Full-216@0-Ant1-38.532-40.160-≤40-PASS



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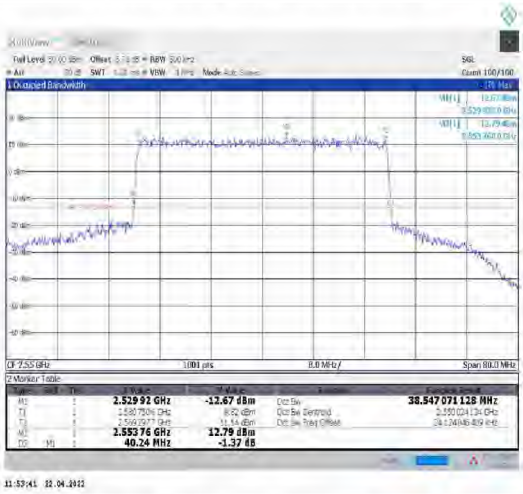

1-N7--15-40-H-4-DFT-64QAM-Outer_Full-216@0-Ant1-38.549-40.240-≤40-PASS

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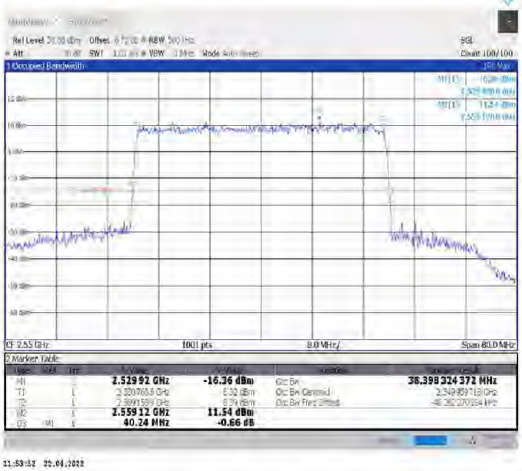

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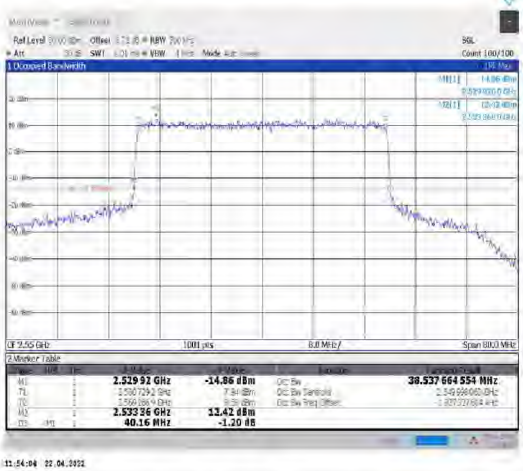

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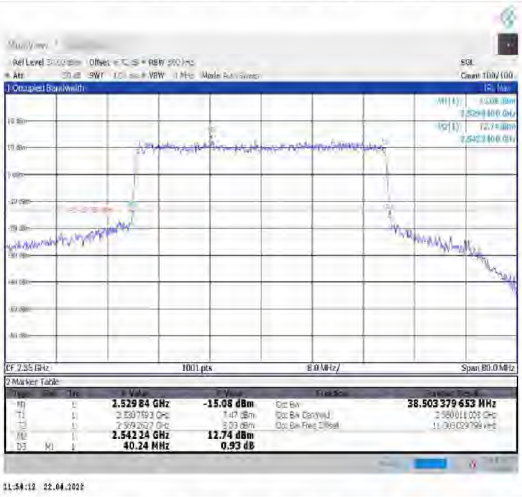

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1-N7--15-40-H-8-CP-64QAM-Outer_Full-216@0-Ant1-38.405-40.320-≤40-PASS

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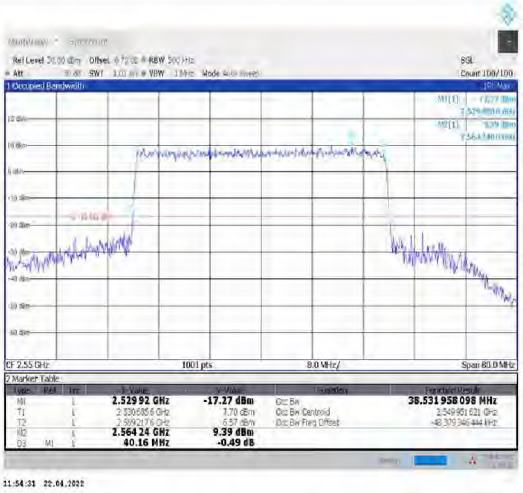	
1-N7--15-40-H-9-CP-256QAM-Outer_Full-216@0-Ant1-38.485-40.160-≤40-PASS	

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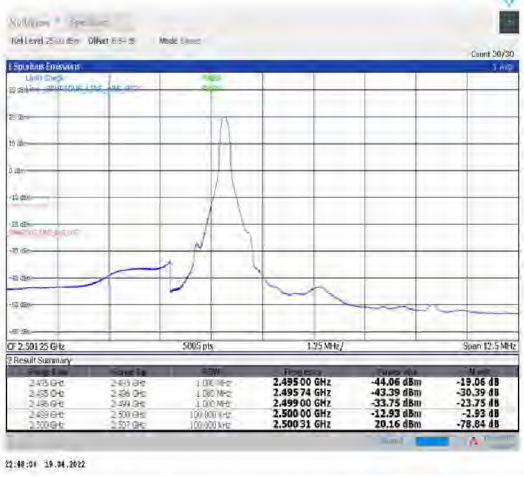
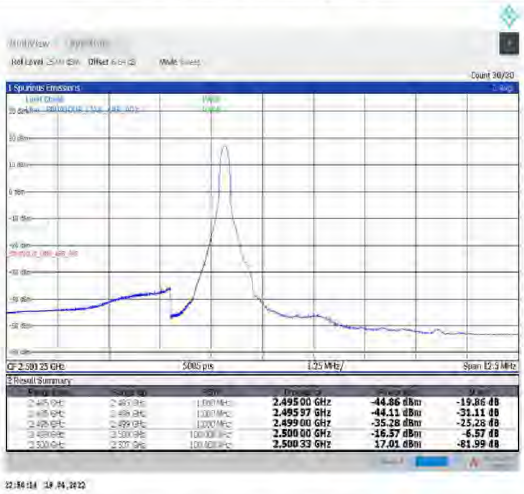
Band Edge for SA

Test Graphs



1-N7--15-5-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N7--15-5-L-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-PASS-see graph



1-N7--15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N7--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph

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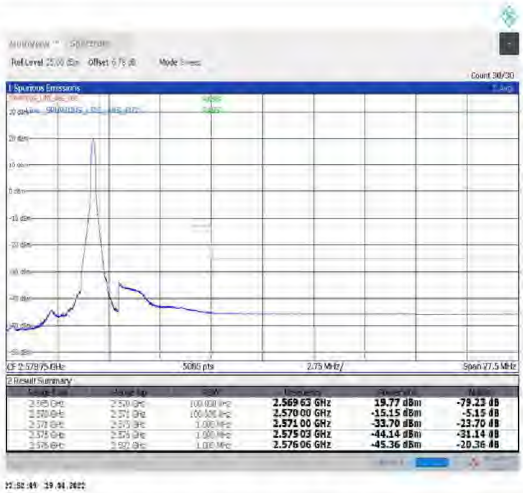

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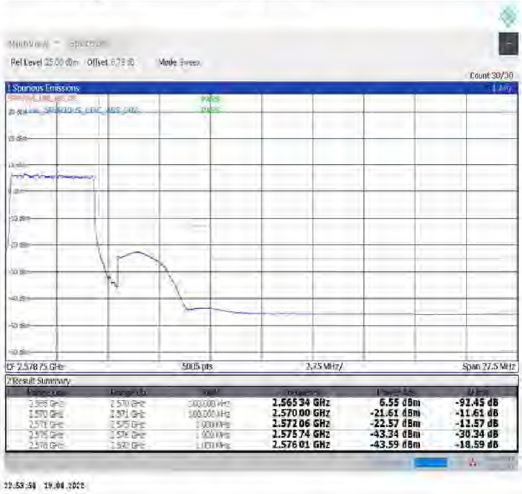

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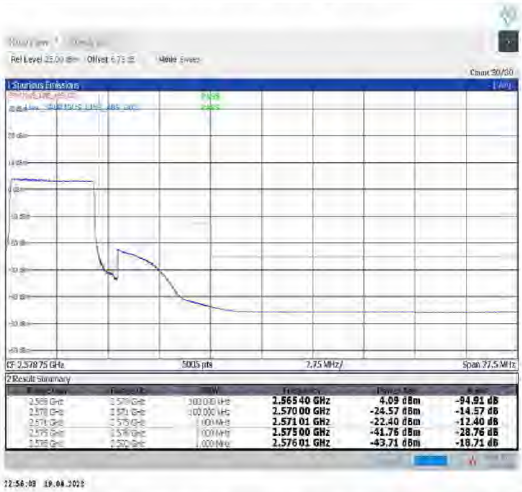

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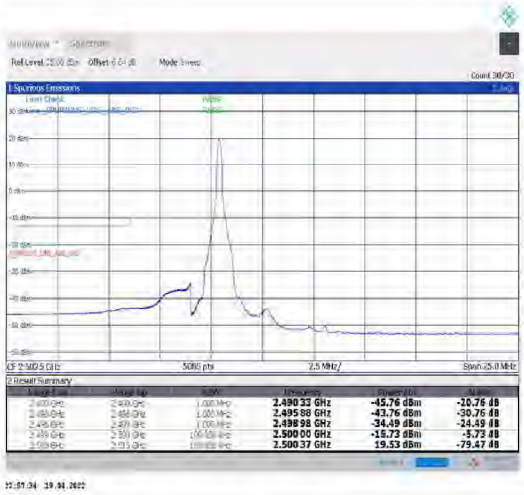

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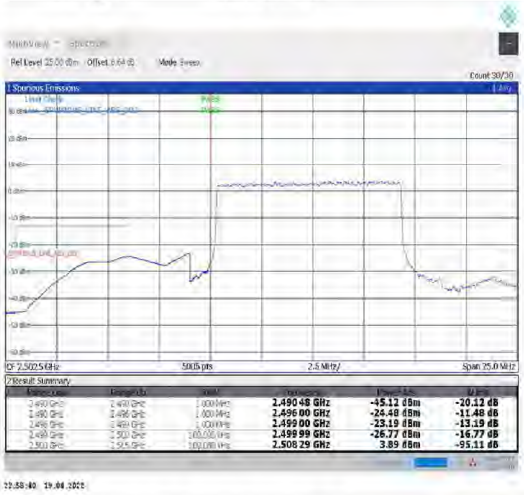

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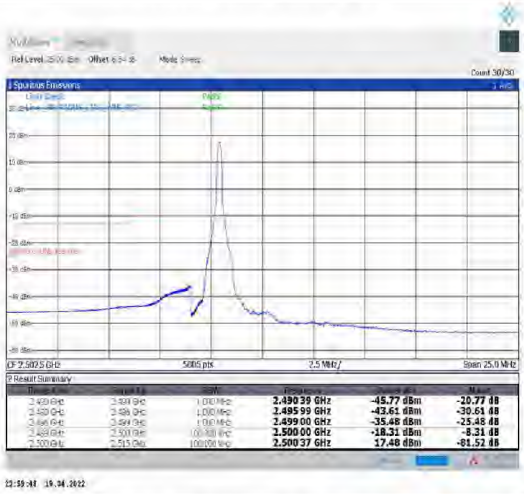

1-N7--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N7--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph

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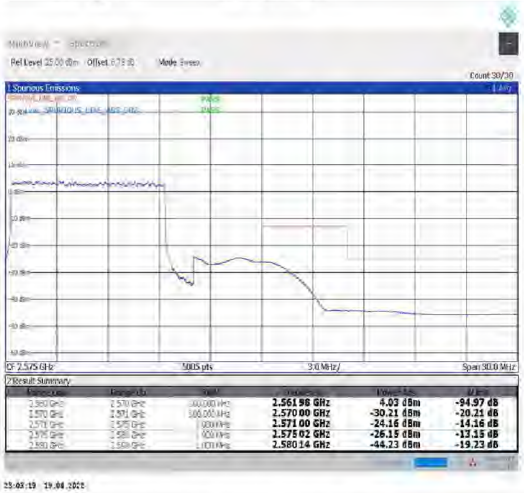
1-N7--15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@51-Ant1-PASS-see graph



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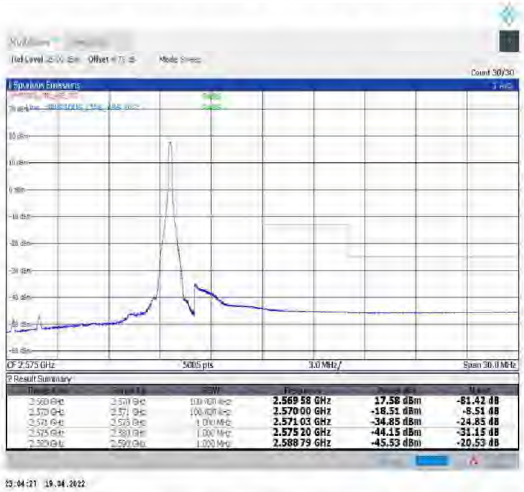

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1-N7--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph

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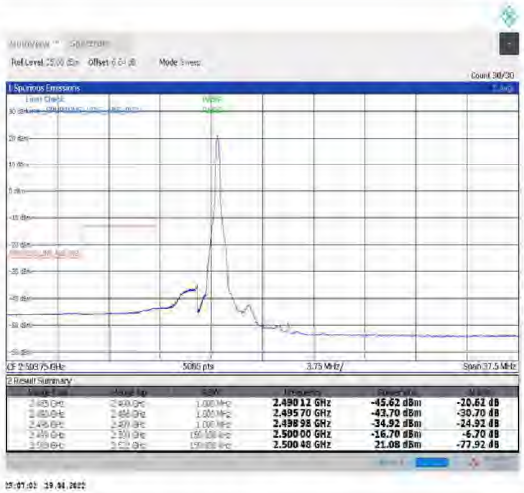

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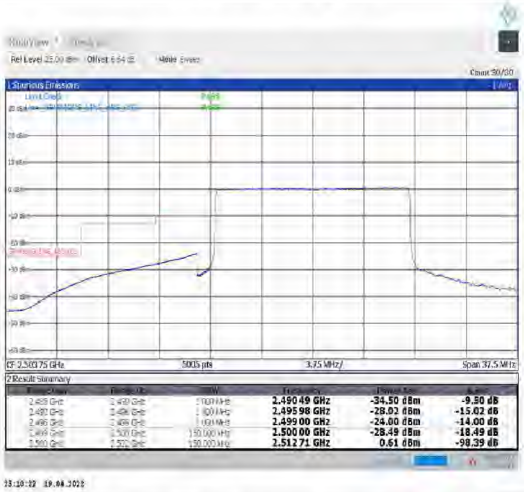
1-N7--15-15-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-PASS-see graph

1-N7--15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



1-N7--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-PASS-see graph

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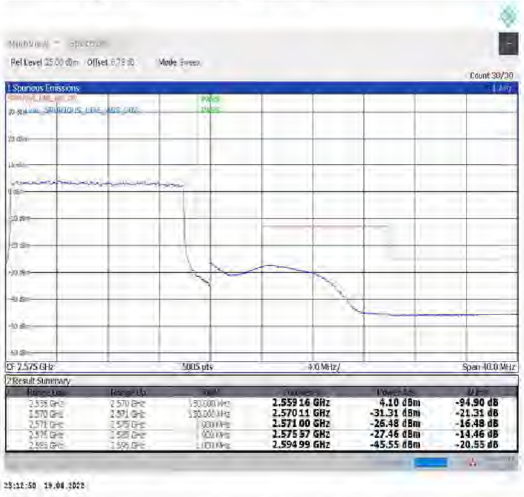
1-N7--15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@78-Ant1-PASS-see graph



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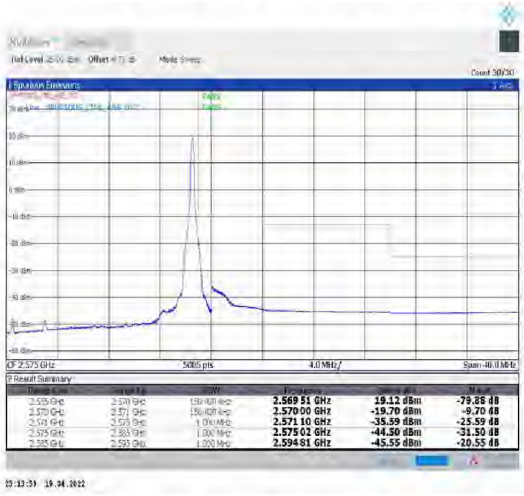

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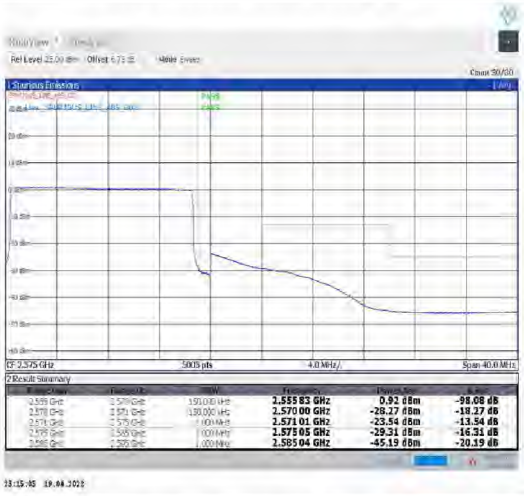

1-N7--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-PASS-see graph

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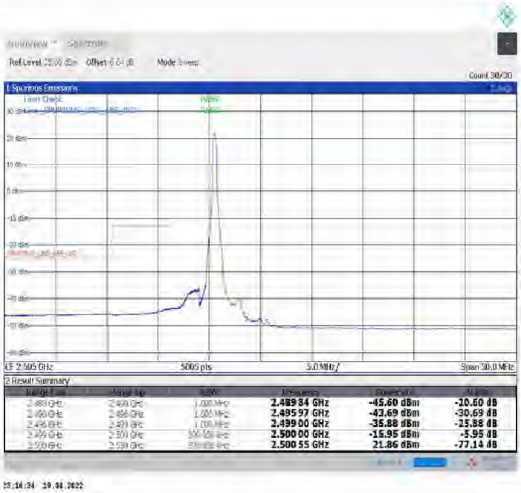

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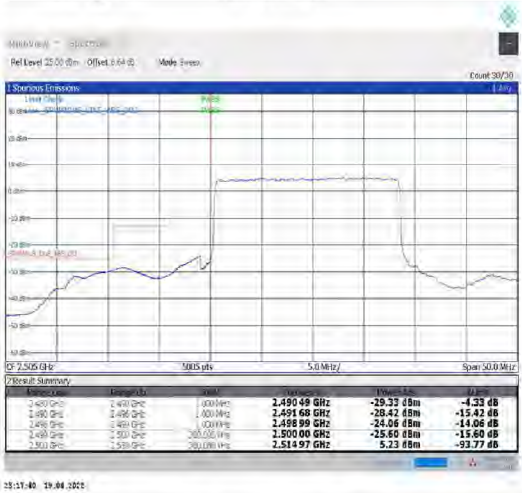

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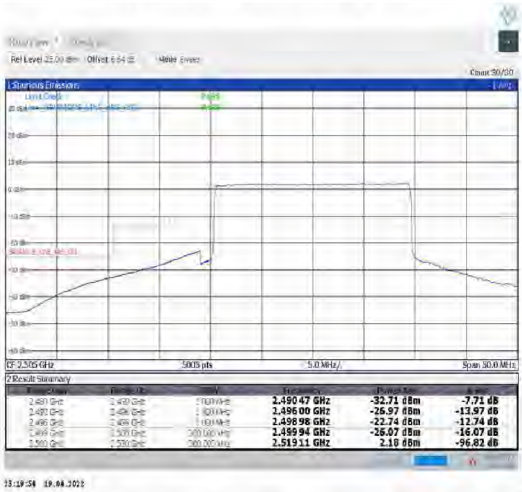

1-N7--15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant1-PASS-see graph

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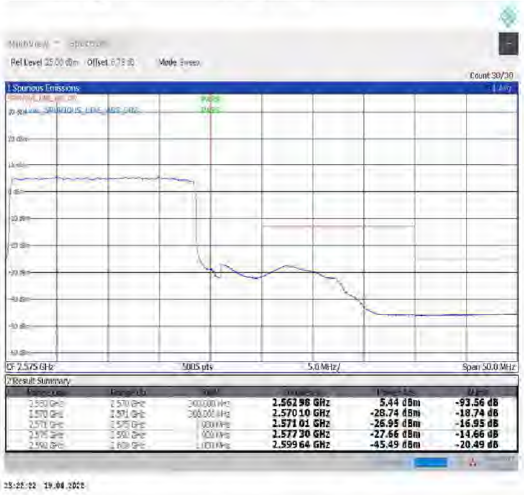

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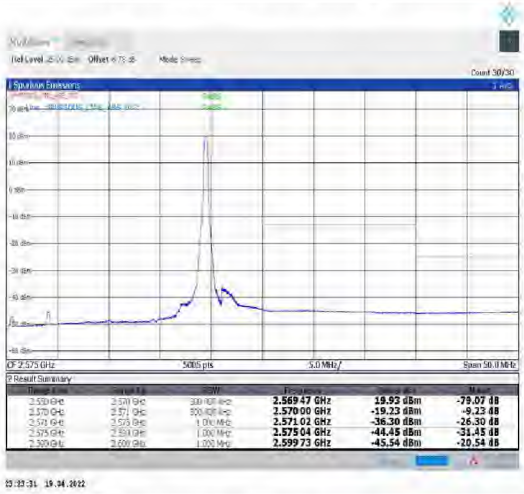

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1-N7--15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant1-PASS-see graph

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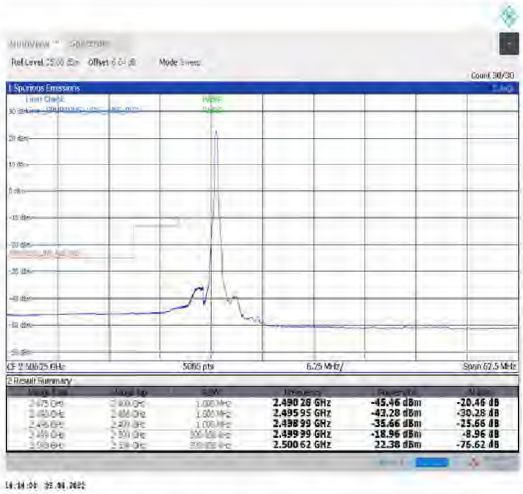

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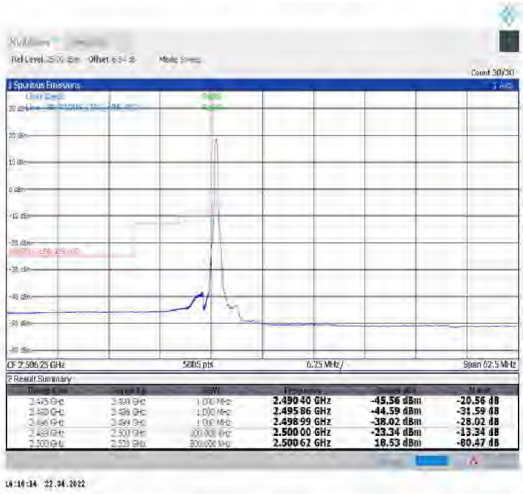

1-N7--15-25-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N7--15-25-L-6-CP-QPSK-Outer_Full-133@0-Ant1-PASS-see graph

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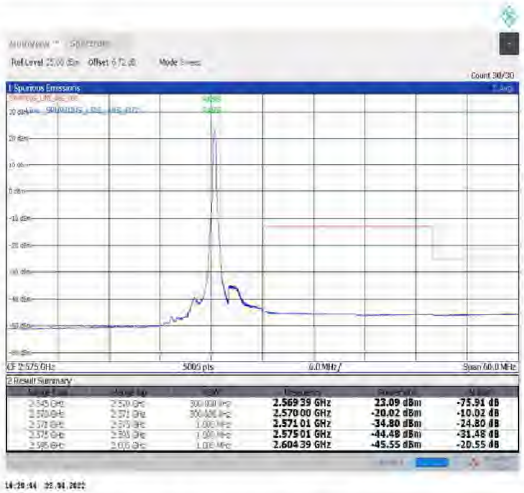

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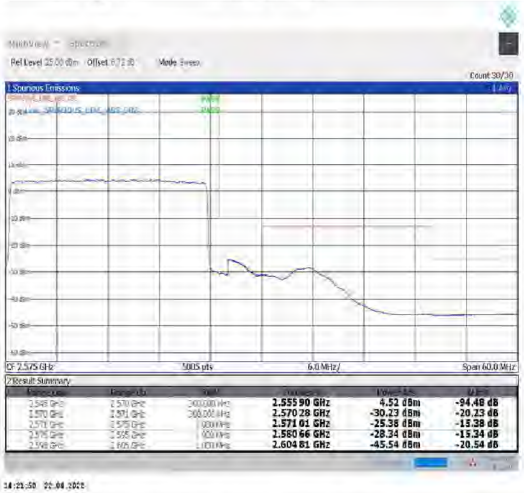

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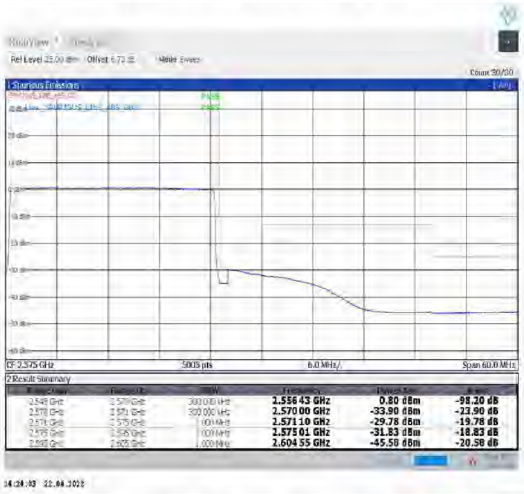

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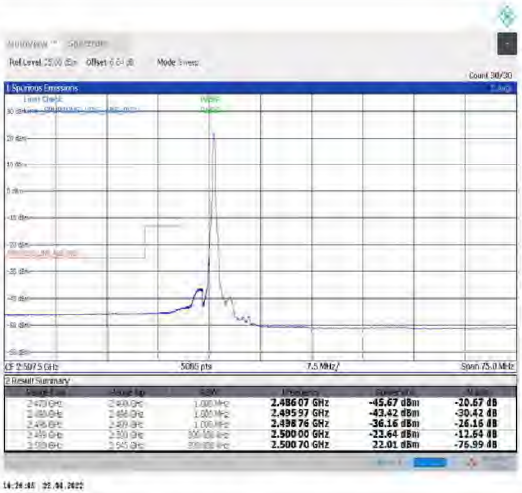

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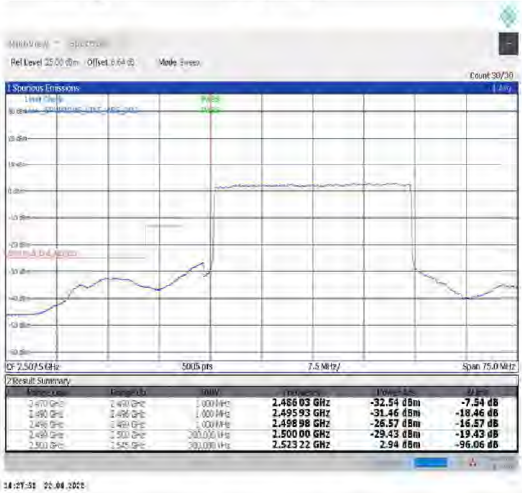

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1-N7--15-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N7--15-30-L-6-CP-QPSK-Outer_Full-160@0-Ant1-PASS-see graph

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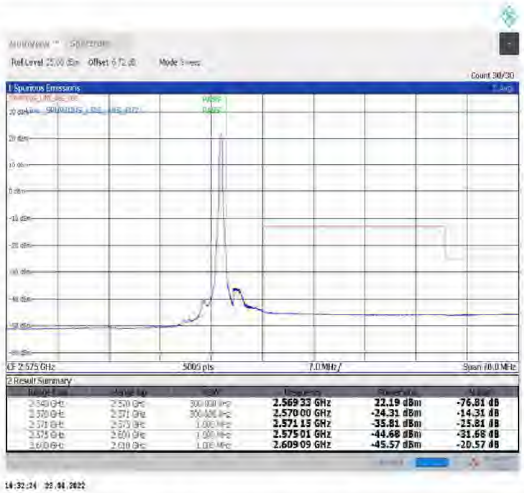

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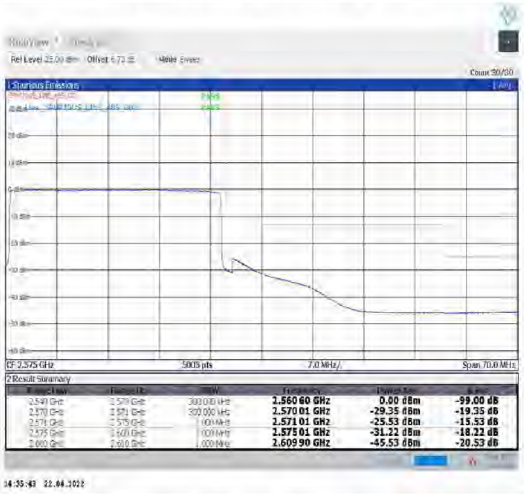

1-N7--15-30-H-6-CP-QPSK-Outer_Full-160@0-Ant1-PASS-see graph

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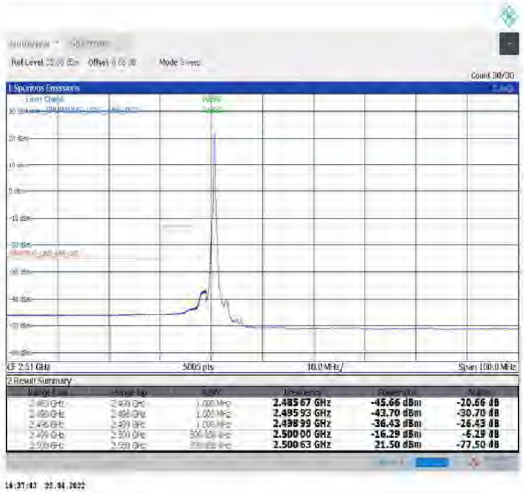

1-N7--15-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N7--15-40-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-PASS-see graph

1-N7--15-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N7--15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant1-PASS-see graph

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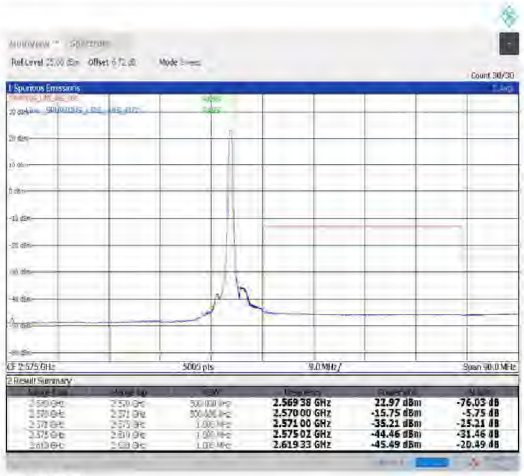

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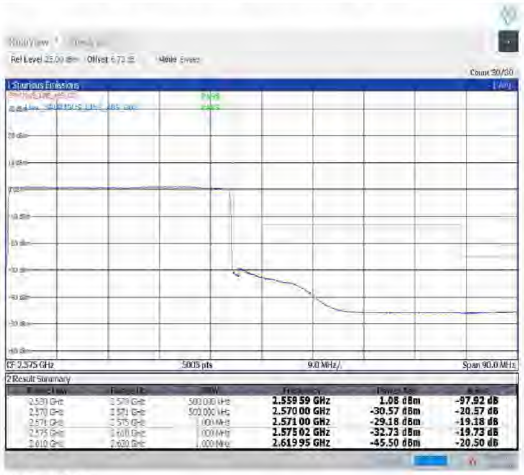

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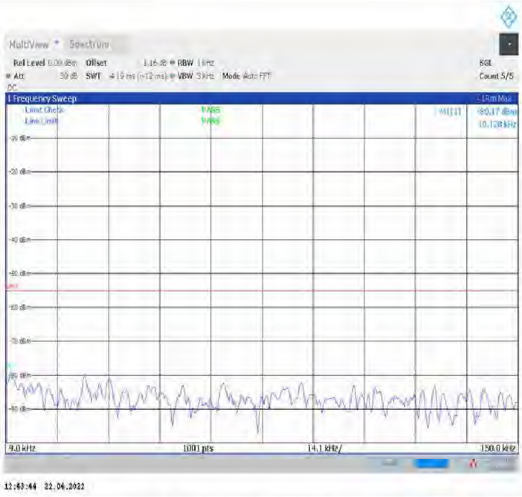
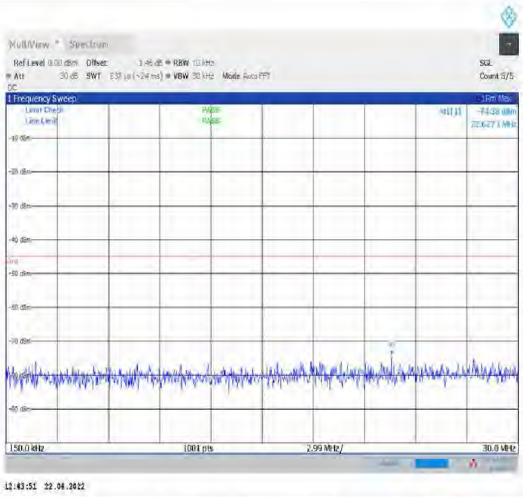
Test Graphs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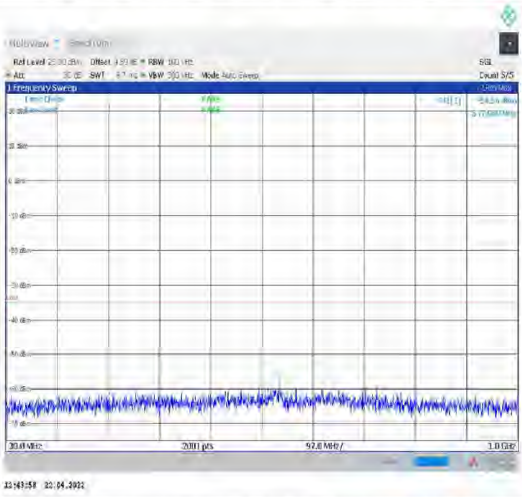	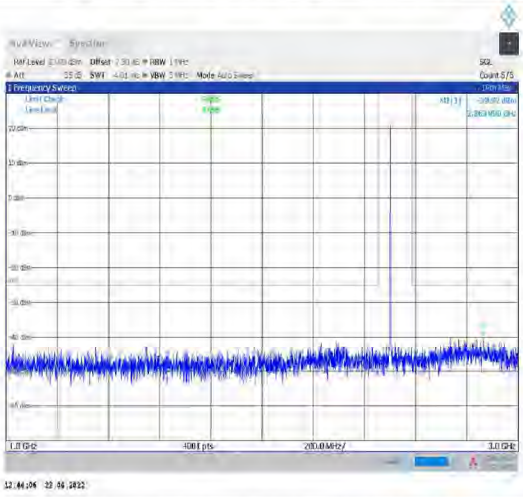
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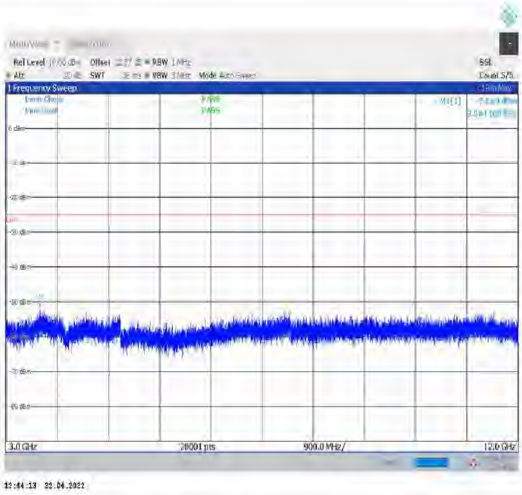	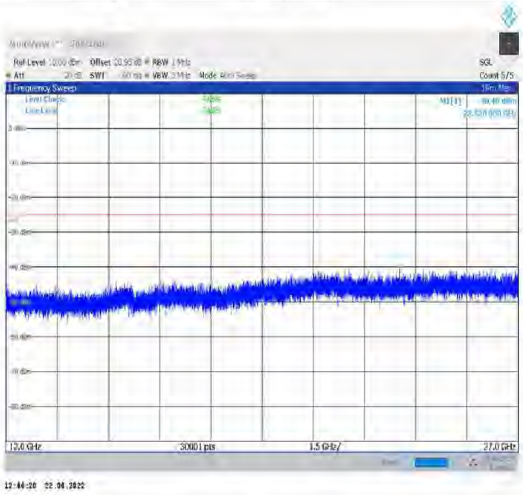
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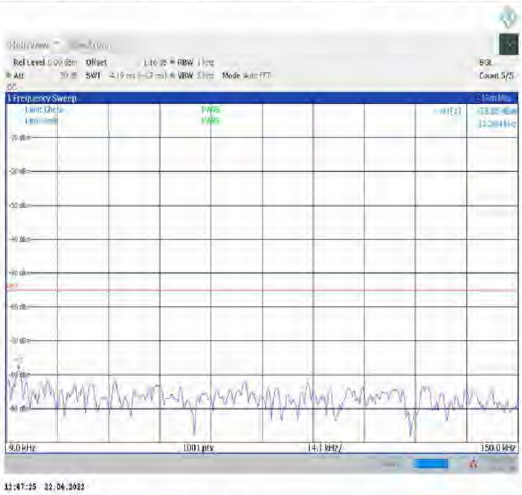	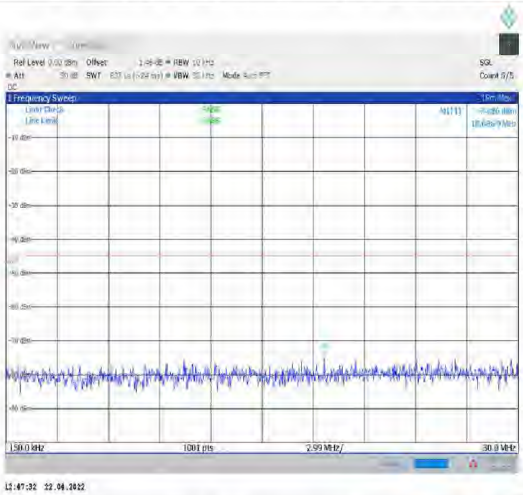
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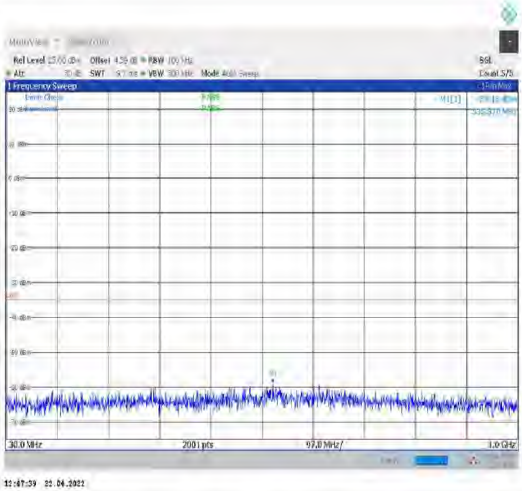

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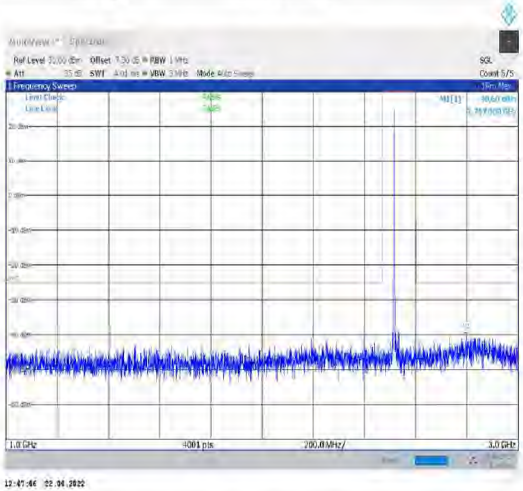

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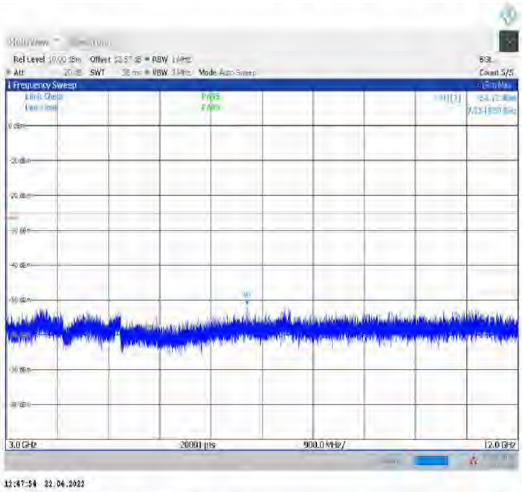

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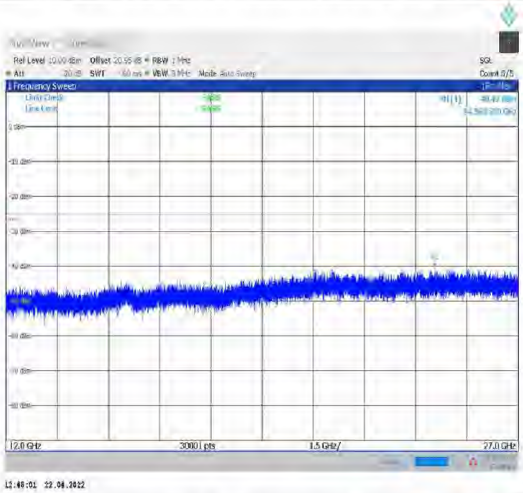

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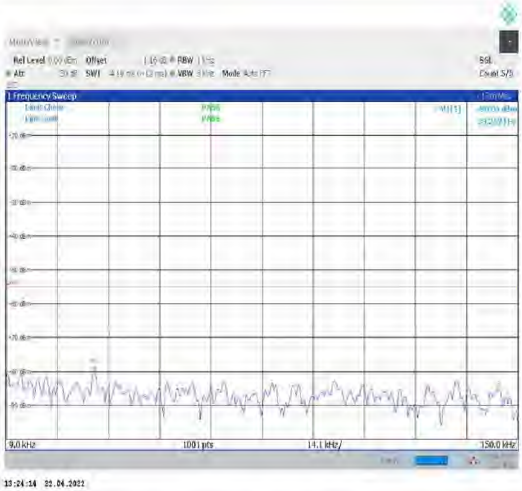

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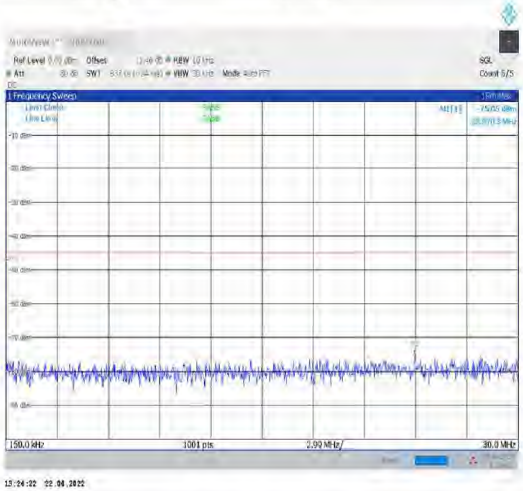

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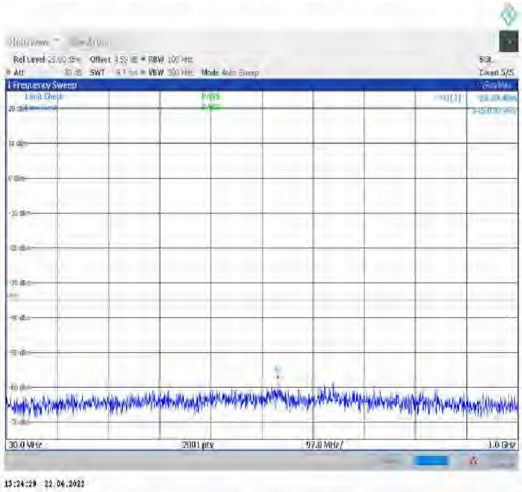
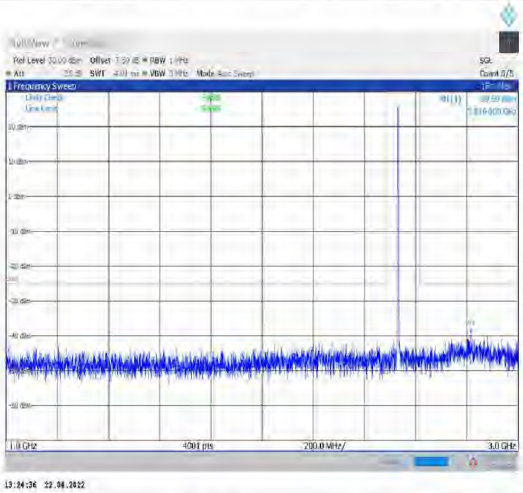


1-N7--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--58.20--35-PASS



1-N7--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--39.59--25-PASS

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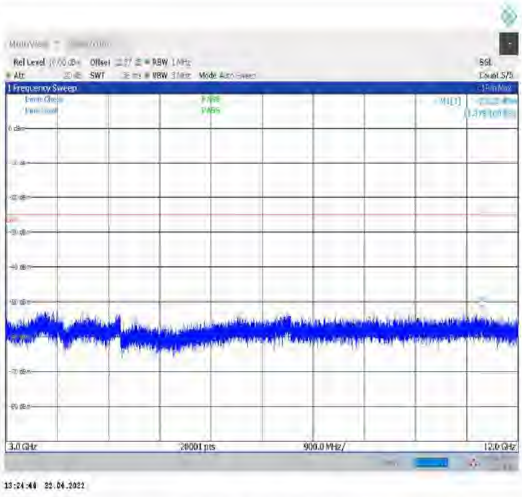	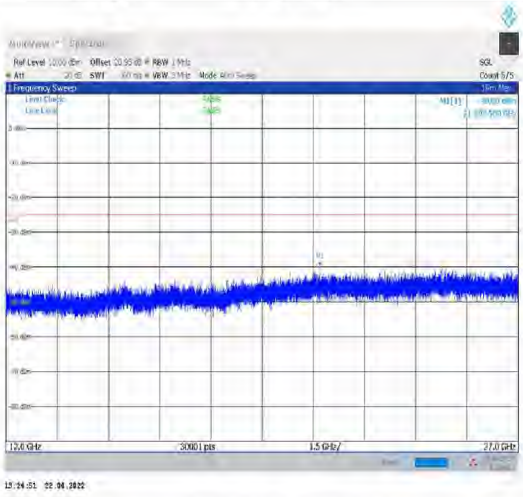
1-N7--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--52.32--25-PASS	1-N7--15-40-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-27000-Ant1--40.00--25-PASS

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Field Strength of Spurious Radiation

Test Band = SA Band 7_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.18	51.07	-107.56	-56.49	-25.00	31.49	142	210	Horizontal
2	7506.27	49.52	-100.33	-50.81	-25.00	25.81	263	46	Horizontal
3	10008.36	44.54	-93.87	-49.33	-25.00	24.33	281	0	Horizontal
4	12510.45	44.67	-91.33	-46.66	-25.00	21.66	176	357	Horizontal
5	15012.54	42.63	-90.10	-47.47	-25.00	22.47	265	70	Horizontal
6	17514.63	39.33	-86.47	-47.14	-25.00	22.14	255	349	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.18	50.15	-107.56	-57.41	-25.00	32.41	142	1	Vertical
2	7506.27	48.79	-100.33	-51.54	-25.00	26.54	263	357	Vertical
3	10008.36	44.92	-93.87	-48.95	-25.00	23.95	284	196	Vertical
4	12510.45	45.18	-91.33	-46.15	-25.00	21.15	176	266	Vertical
5	15012.54	42.98	-90.10	-47.12	-25.00	22.12	294	12	Vertical
6	17514.63	39.24	-86.47	-47.23	-25.00	22.23	177	90	Vertical

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Test Band = SA Band 7_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.18	50.14	-107.37	-57.23	-25.00	32.23	142	127	Horizontal
2	7551.27	49.34	-100.08	-50.74	-25.00	25.74	263	162	Horizontal
3	10068.36	45.21	-93.60	-48.39	-25.00	23.39	284	0	Horizontal
4	12585.45	44.09	-90.71	-46.62	-25.00	21.62	176	357	Horizontal
5	15102.54	43.84	-90.50	-46.66	-25.00	21.66	255	302	Horizontal
6	17619.63	40.02	-85.81	-45.79	-25.00	20.79	147	104	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.18	50.18	-107.37	-57.19	-25.00	32.19	142	117	Vertical
2	7551.27	49.40	-100.08	-50.68	-25.00	25.68	263	162	Vertical
3	10068.36	45.05	-93.60	-48.55	-25.00	23.55	251	0	Vertical
4	12585.45	43.92	-90.71	-46.79	-25.00	21.79	144	69	Vertical
5	15102.54	42.31	-90.50	-48.19	-25.00	23.19	175	153	Vertical
6	17619.63	39.94	-85.81	-45.87	-25.00	20.87	265	3	Vertical

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Test Band = SA Band 7_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.18	50.97	-107.17	-56.20	-25.00	31.20	142	182	Horizontal
2	7596.27	50.55	-99.84	-49.29	-25.00	24.29	263	348	Horizontal
3	10128.36	45.21	-93.35	-48.14	-25.00	23.14	284	229	Horizontal
4	12660.45	44.07	-90.90	-46.83	-25.00	21.83	176	9	Horizontal
5	15192.54	42.42	-88.93	-46.51	-25.00	21.51	294	9	Horizontal
6	17724.63	40.74	-84.69	-43.95	-25.00	18.95	198	123	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.18	49.39	-107.17	-57.78	-25.00	32.78	142	304	Vertical
2	7596.27	49.48	-99.84	-50.36	-25.00	25.36	263	102	Vertical
3	10128.36	44.48	-93.35	-48.87	-25.00	23.87	284	233	Vertical
4	12660.45	44.12	-90.90	-46.78	-25.00	21.78	176	0	Vertical
5	15192.54	42.63	-88.93	-46.30	-25.00	21.30	265	357	Vertical
6	17724.63	39.53	-84.69	-45.16	-25.00	20.16	255	163	Vertical

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Test Band = DC_5A-n7A_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.18	49.96	-	-57.60	-25.00	32.60	263	1	Horizontal
2	7506.27	48.53	-	-51.80	-25.00	26.80	241	0	Horizontal
3	10008.36	45.58	-93.87	-48.29	-25.00	23.29	175	87	Horizontal
4	12510.45	45.32	-91.33	-46.01	-25.00	21.01	263	289	Horizontal
5	15012.54	44.03	-90.10	-46.07	-25.00	21.07	284	69	Horizontal
6	17514.63	40.48	-86.47	-45.99	-25.00	20.99	144	156	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.18	51.95	-	-55.61	-25.00	30.61	142	138	Vertical
2	7506.27	49.19	-	-51.14	-25.00	26.14	263	25	Vertical
3	10008.36	46.00	-93.87	-47.87	-25.00	22.87	287	77	Vertical
4	12510.45	44.18	-91.33	-47.15	-25.00	22.15	176	357	Vertical
5	15012.54	43.29	-90.10	-46.81	-25.00	21.81	255	357	Vertical
6	17514.63	40.93	-86.47	-45.54	-25.00	20.54	263	0	Vertical

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Test Band = DC_5A-n7A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.18	50.22	-	-57.15	-25.00	32.15	263	131	Horizontal
2	7551.27	47.96	-	-52.12	-25.00	27.12	241	297	Horizontal
3	10068.36	45.37	-93.60	-48.23	-25.00	23.23	178	324	Horizontal
4	12585.45	44.15	-90.71	-46.56	-25.00	21.56	265	140	Horizontal
5	15102.54	42.60	-90.50	-47.90	-25.00	22.90	241	63	Horizontal
6	17619.63	40.18	-85.81	-45.63	-25.00	20.63	189	52	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.18	50.25	-	-57.12	-25.00	32.12	142	349	Vertical
2	7551.27	48.10	-	-51.98	-25.00	26.98	263	349	Vertical
3	10068.36	44.93	-93.60	-48.67	-25.00	23.67	284	19	Vertical
4	12585.45	43.64	-90.71	-47.07	-25.00	22.07	176	279	Vertical
5	15102.54	42.02	-90.50	-48.48	-25.00	23.48	251	340	Vertical
6	17619.63	39.79	-85.81	-46.02	-25.00	21.02	144	245	Vertical

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Test Band = DC_5A-n7A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.18	50.11	-	-57.06	-25.00	32.06	163	323	Horizontal
2	7596.27	50.38	-99.84	-49.46	-25.00	24.46	241	298	Horizontal
3	10128.36	45.82	-93.35	-47.53	-25.00	22.53	175	1	Horizontal
4	12660.45	42.99	-90.90	-47.91	-25.00	22.91	263	349	Horizontal
5	15192.54	42.76	-88.93	-46.17	-25.00	21.17	284	272	Horizontal
6	17724.63	40.20	-84.69	-44.49	-25.00	19.49	166	289	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.18	49.96	-	-57.21	-25.00	32.21	152	69	Vertical
2	7596.27	48.96	-99.84	-50.88	-25.00	25.88	263	11	Vertical
3	10128.36	44.67	-93.35	-48.68	-25.00	23.68	254	297	Vertical
4	12660.45	44.18	-90.90	-46.72	-25.00	21.72	177	315	Vertical
5	15192.54	42.51	-88.93	-46.42	-25.00	21.42	188	105	Vertical
6	17724.63	41.43	-84.69	-43.26	-25.00	18.26	264	226	Vertical

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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
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	12.700000	0.005010	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	5.600000	0.002209	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.600000	-0.000237	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VH	NT	3.900000	0.001538	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VN	NT	6.100000	0.002406	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VL	NT	4.500000	0.001775	PASS

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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	17.100000	0.006746	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	22.800000	0.008994	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	18.700000	0.007377	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	19.500000	0.007692	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	21.500000	0.008481	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	32.300000	0.012742	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	18.600000	0.007337	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	21.200000	0.008363	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	13.800000	0.005444	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-30	12.300000	0.004852	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-20	6.200000	0.002446	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-10	12.300000	0.004852	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	0	2.000000	0.000789	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	10	9.700000	0.003826	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	20	1.900000	0.000750	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	30	7.700000	0.003037	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	40	8.900000	0.003511	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	50	-6.400000	-0.002525	PASS

The End

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