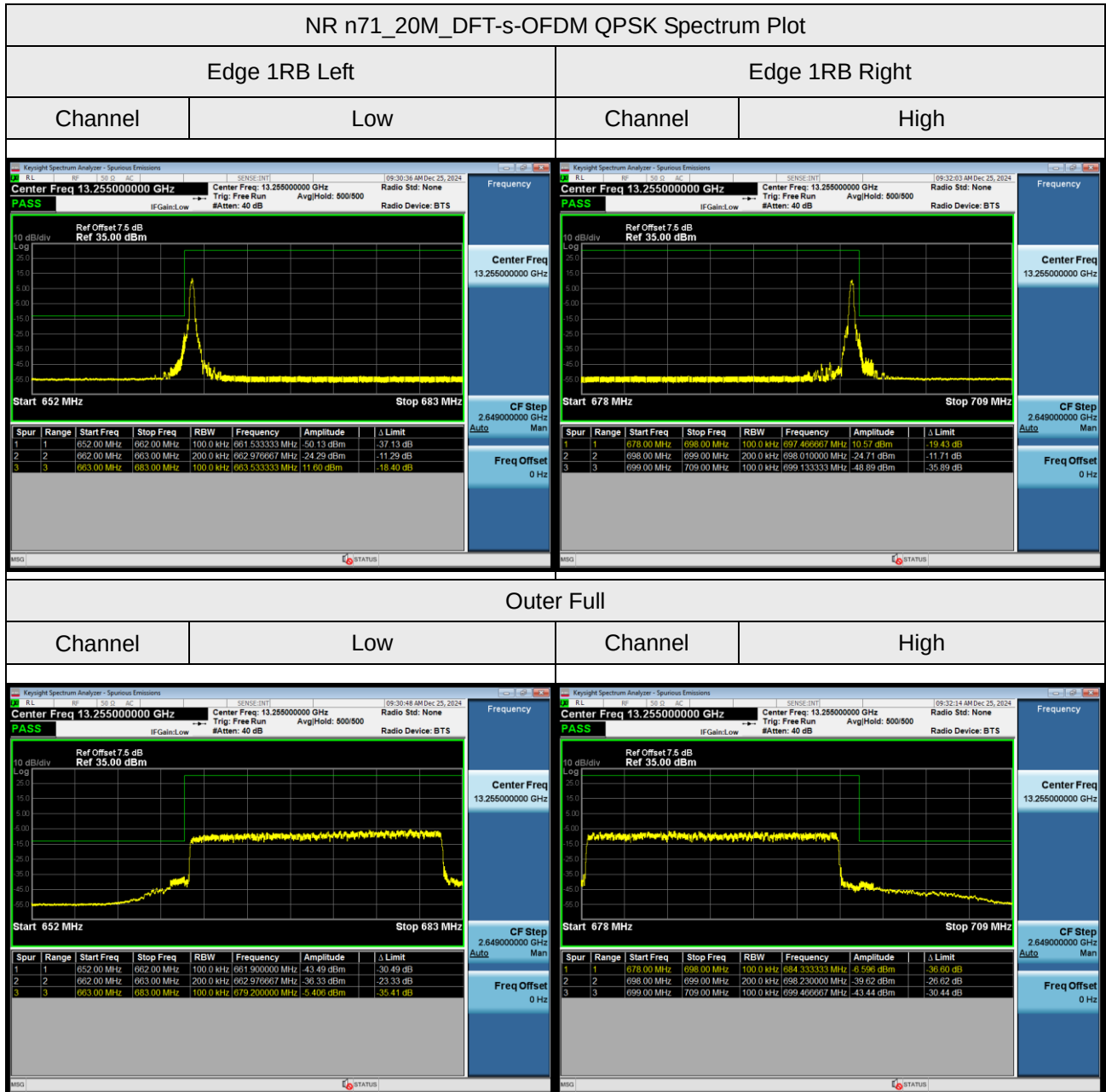
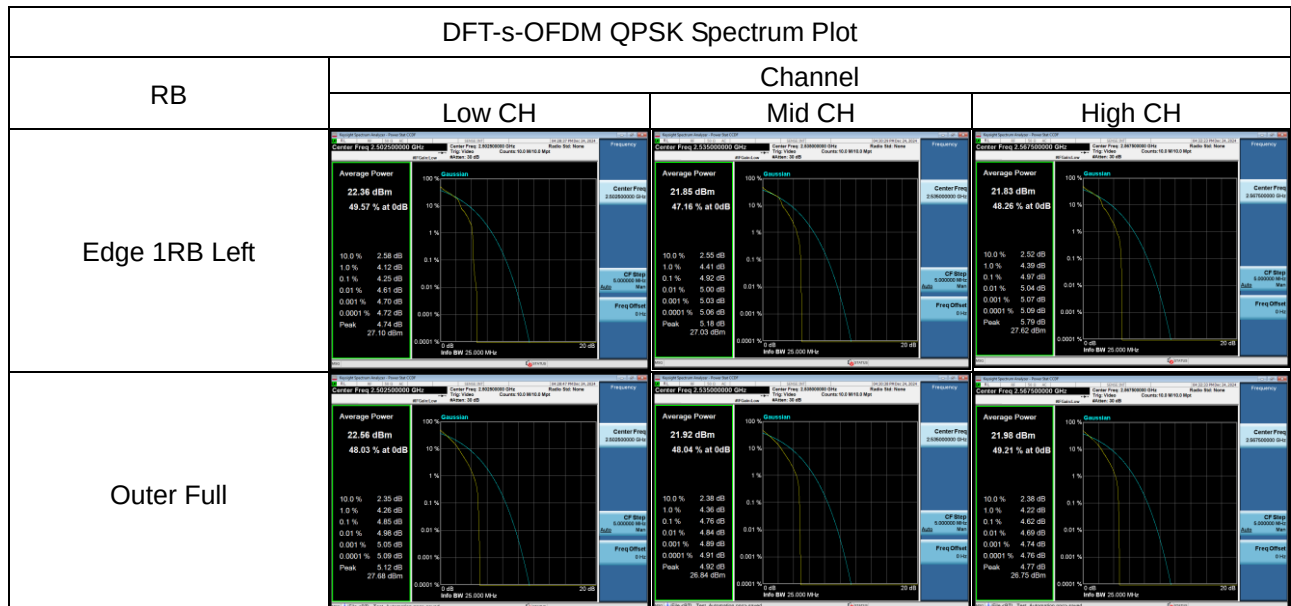
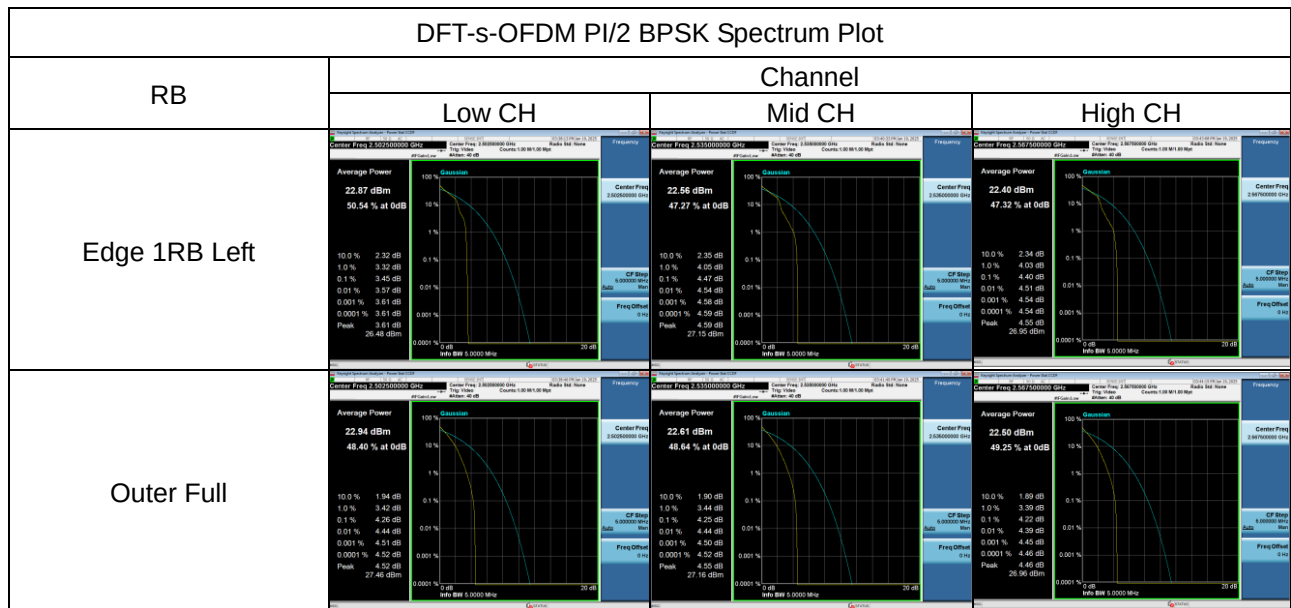


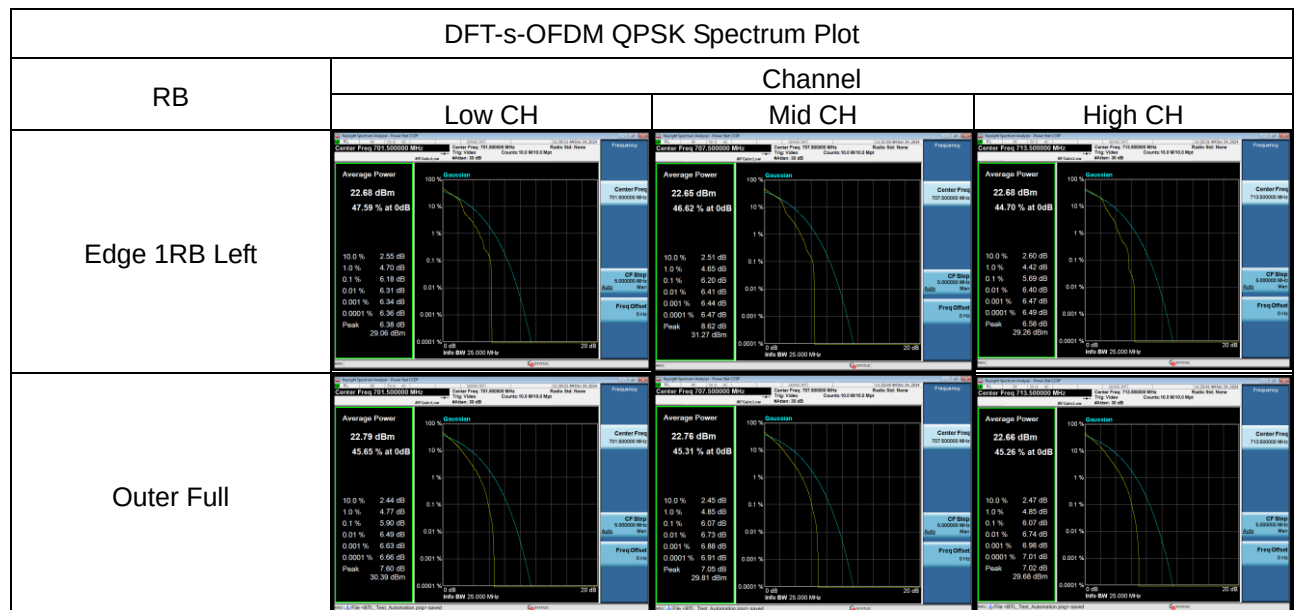
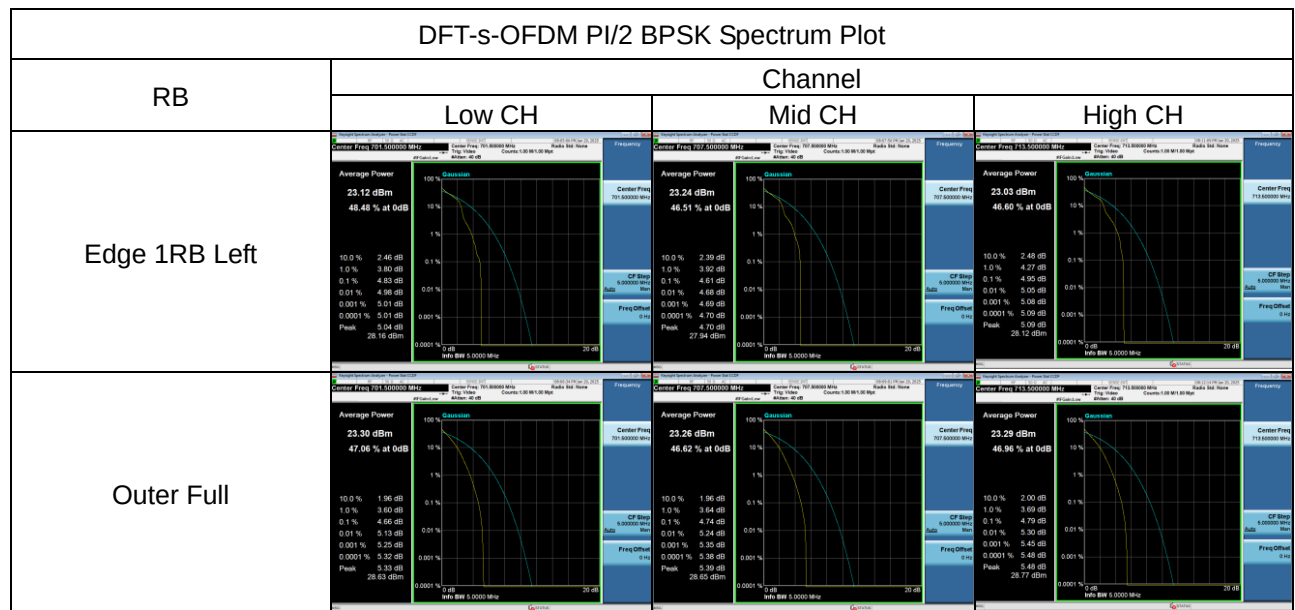


APPENDIX H - PEAK TO AVERAGE RATIO

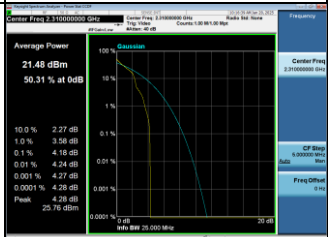
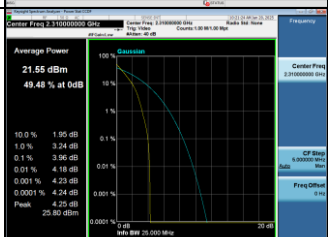
NR n7_5MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	3.45	4.26	4.25	4.85	13	Pass
Mid CH	4.47	4.25	4.92	4.76	13	Pass
High CH	4.40	4.22	4.97	4.62	13	Pass

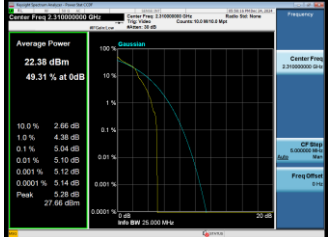
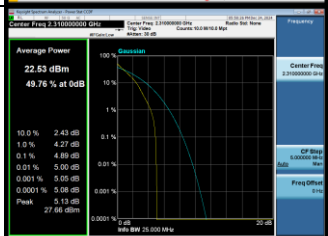


NR n12_5MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	4.83	4.66	6.18	5.90	13	Pass
Mid CH	4.61	4.74	6.20	6.07	13	Pass
High CH	4.95	4.79	5.69	6.07	13	Pass

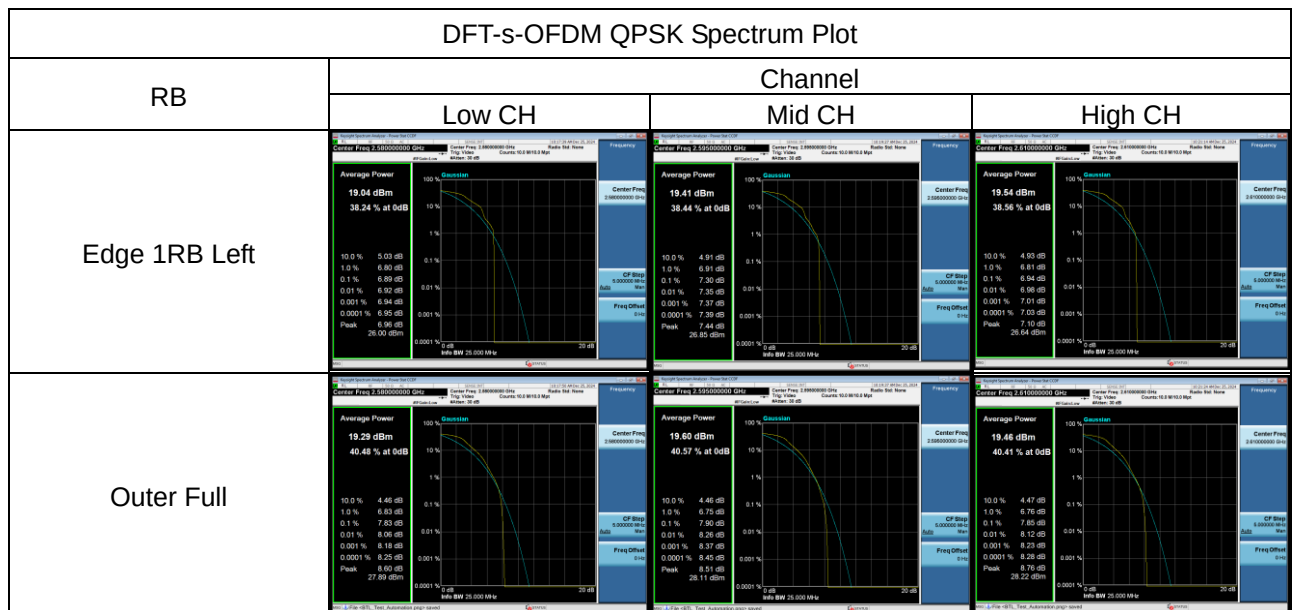
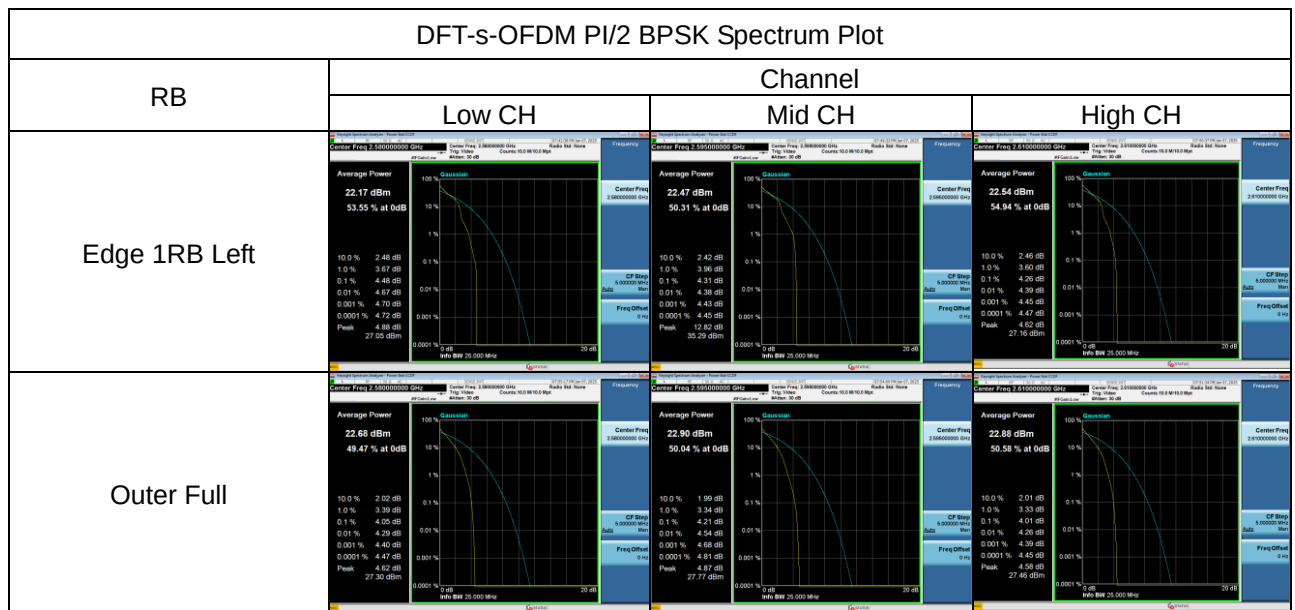


NR n30_10MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Mid CH	4.18	3.96	5.04	4.89	13	Pass

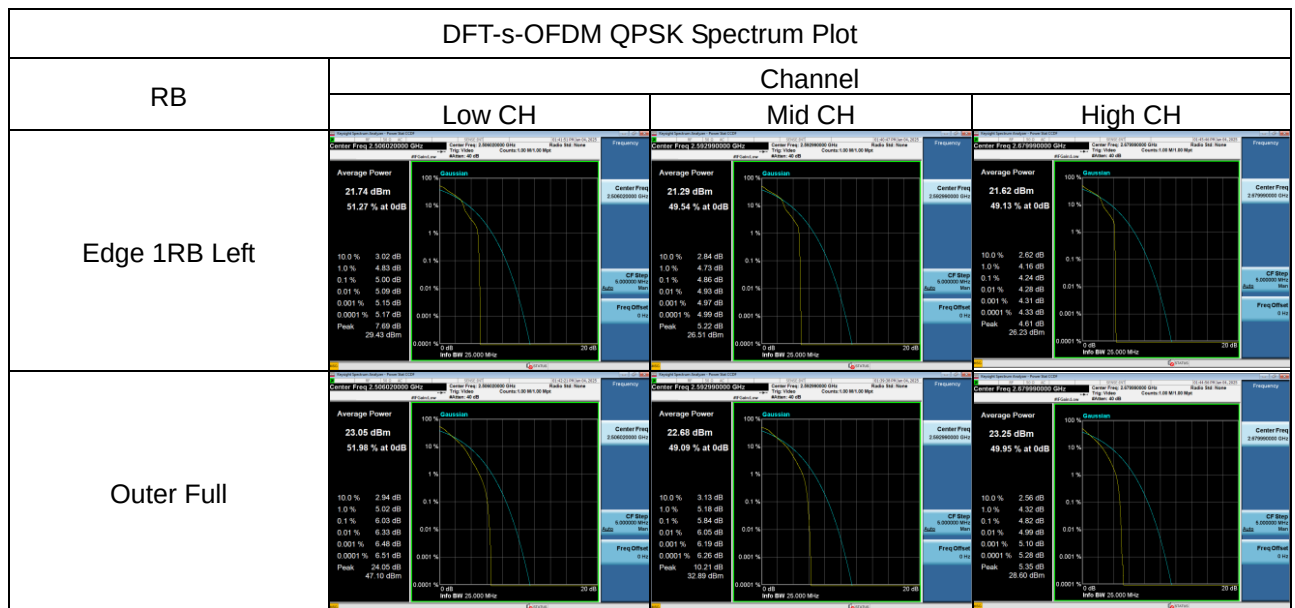
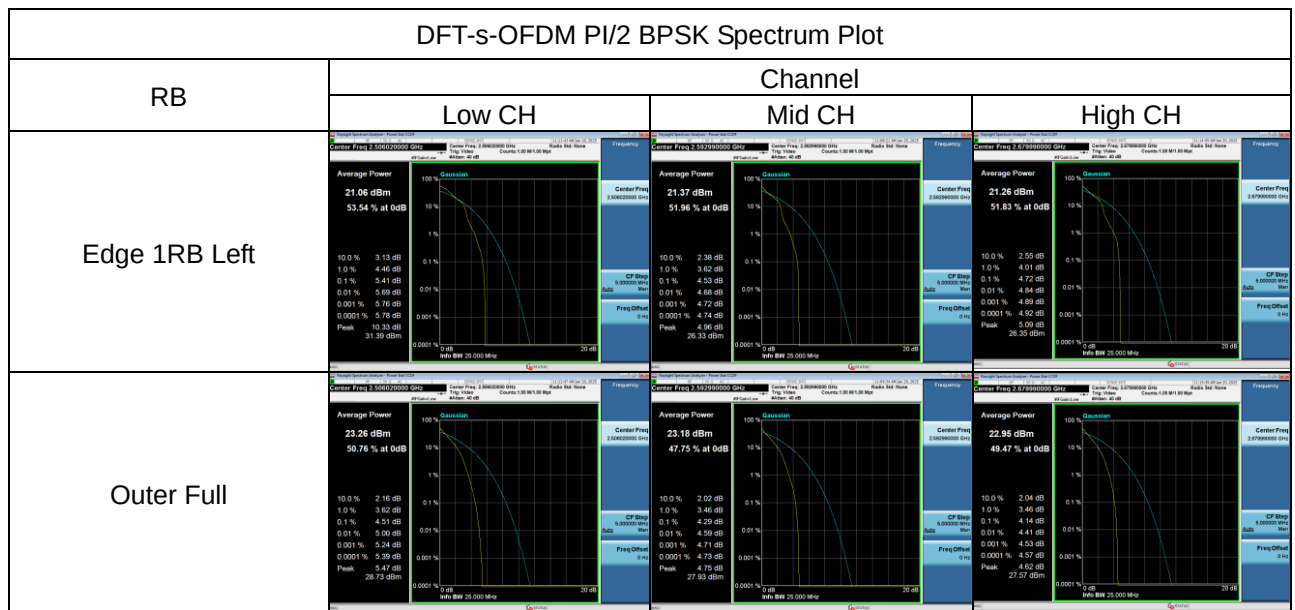
DFT-s-OFDM PI/2 BPSK Spectrum Plot			
RB	Channel		
	-	Mid CH	-
Edge 1RB Left	-		-
Outer Full	-		-

DFT-s-OFDM QPSK Spectrum Plot			
RB	Channel		
	-	Mid CH	-
Edge 1RB Left	-		-
Outer Full	-		-

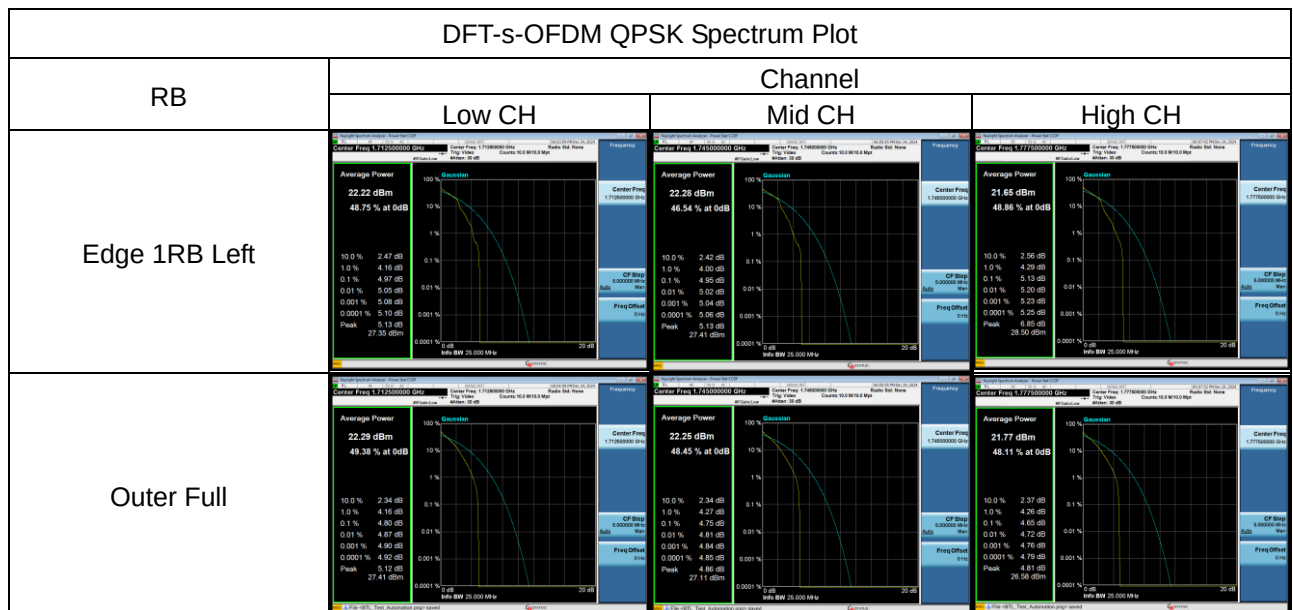
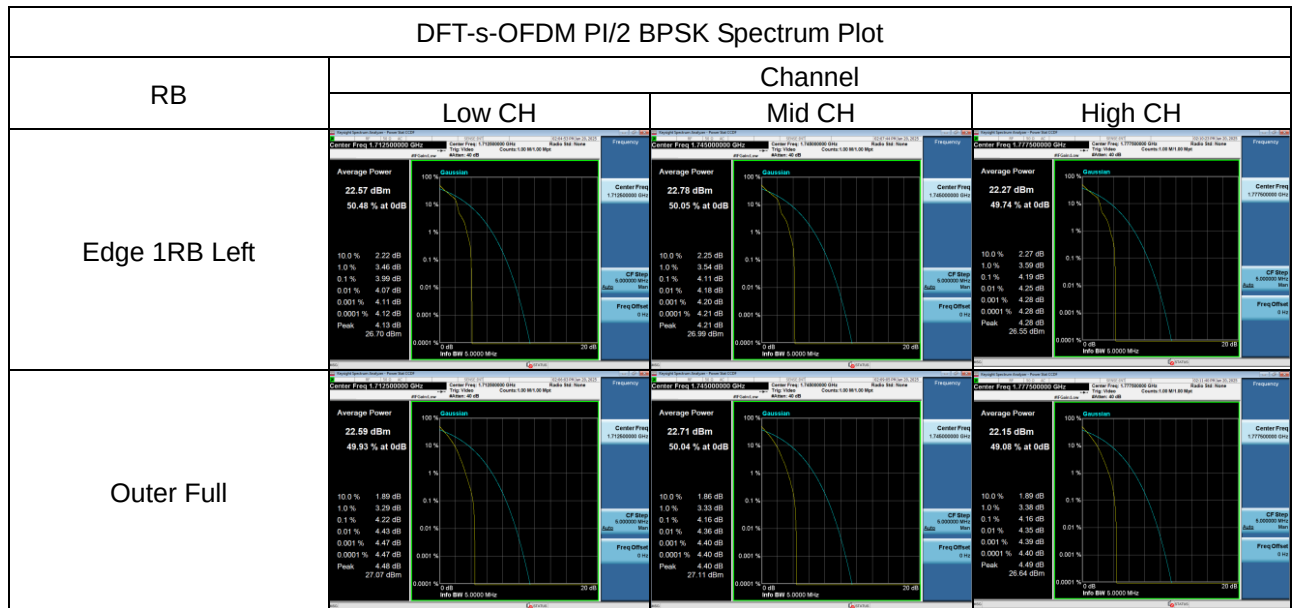
NR n38_20MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	4.48	4.05	6.89	7.83	13	Pass
Mid CH	4.31	4.21	7.30	7.90	13	Pass
High CH	4.26	4.01	6.94	7.85	13	Pass



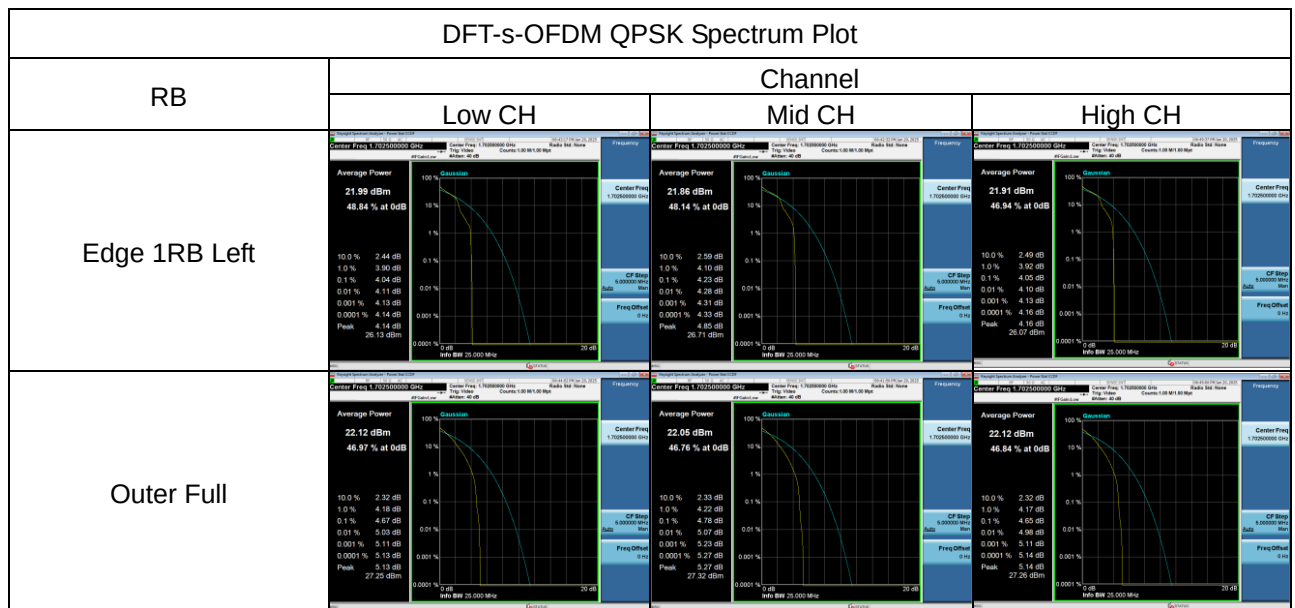
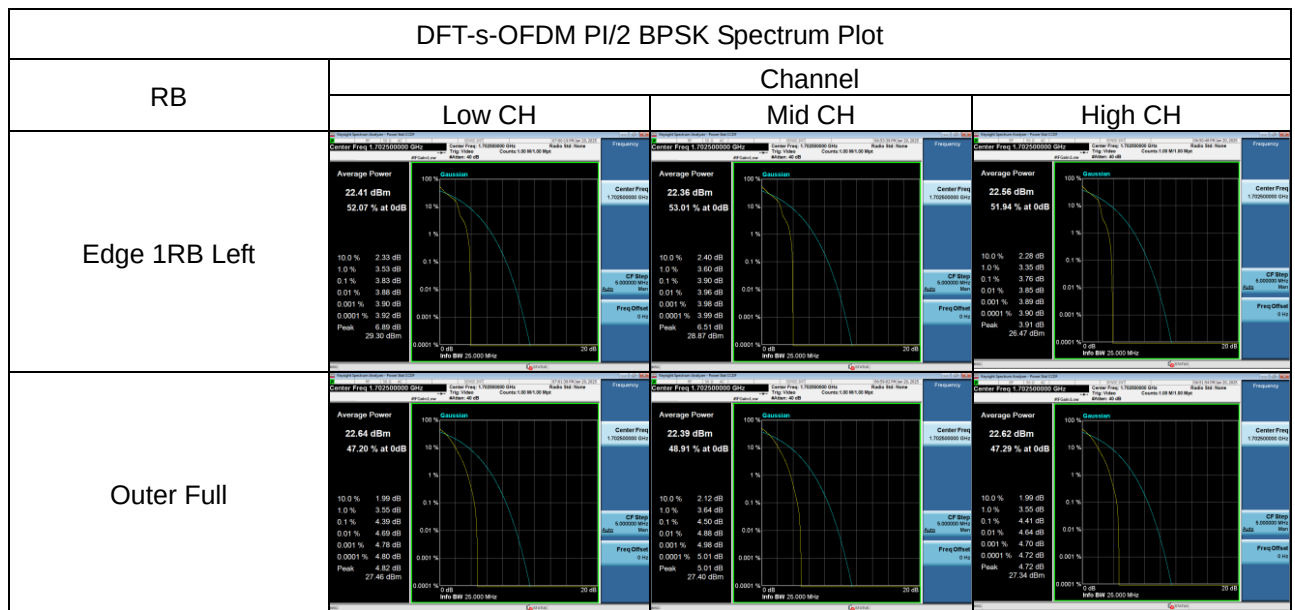
NR n41_20MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	5.41	4.51	5.00	6.03	13	Pass
Mid CH	4.53	4.29	4.86	5.84	13	Pass
High CH	4.72	4.14	4.24	4.82	13	Pass



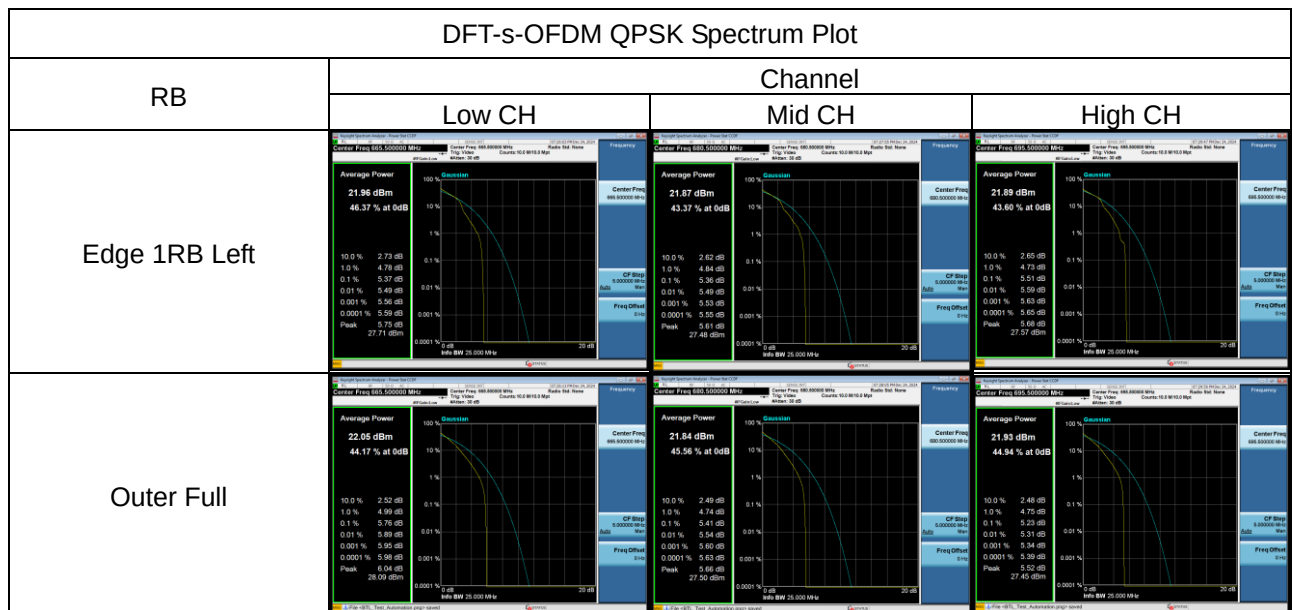
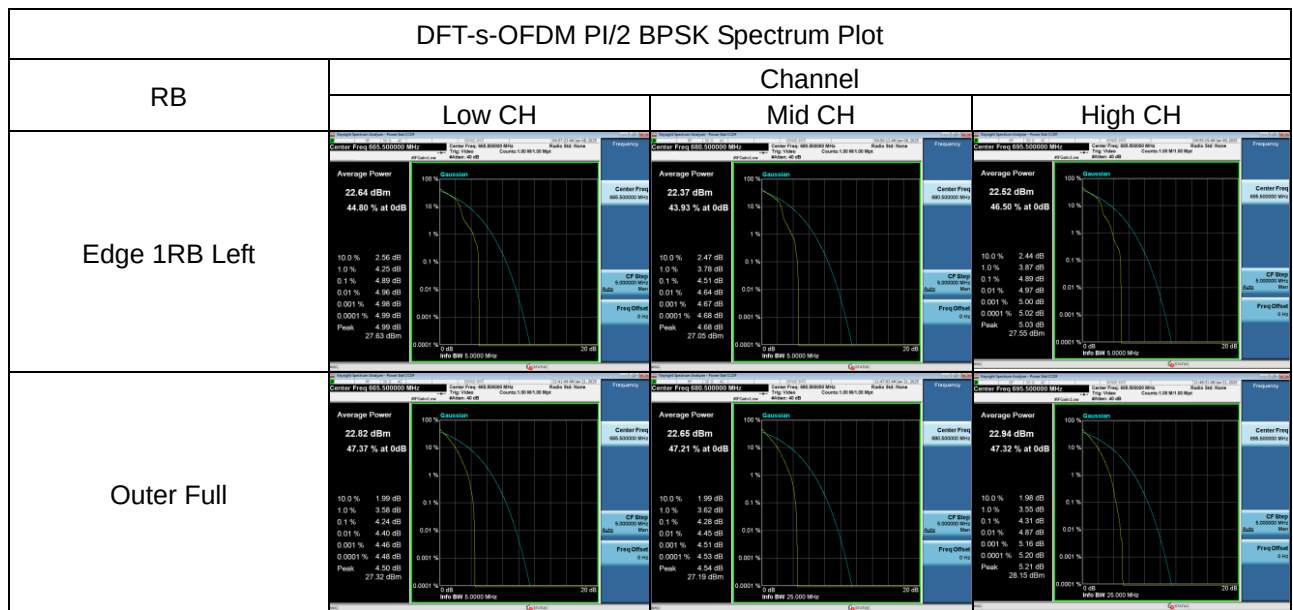
NR n66_5MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	3.99	4.22	4.97	4.80	13	Pass
Mid CH	4.11	4.16	4.95	4.75	13	Pass
High CH	4.19	4.16	5.13	4.65	13	Pass



NR n70_15MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	3.83	4.39	4.04	4.67	13	Pass
Mid CH	3.90	4.50	4.23	4.78	13	Pass
High CH	3.76	4.41	4.05	4.65	13	Pass



NR n71_5MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	4.89	4.24	5.37	5.76	13	Pass
Mid CH	4.51	4.28	5.36	5.41	13	Pass
High CH	4.89	4.31	5.51	5.23	13	Pass



APPENDIX I - FREQUENCY STABILITY

Test Mode	5G NR n7
-----------	----------

Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-10dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:2500MHz	Highest channel limit:2570MHz		Record only
50	0.00002135	0.00000743	2500.38	2569.78	2500.379979	2569.780007	Pass	0.0085
40	0.00002035	0.00001719			2500.379980	2569.780017	Pass	0.0081
30	0.00000963	-0.00001256			2500.379990	2569.779987	Pass	-0.0049
20	0.00000423	0.00001323			2500.379996	2569.780013	Pass	0.0052
10	0.00000541	0.00001234			2500.379995	2569.780012	Pass	0.0048
0	0.00000389	0.00001642			2500.379996	2569.780016	Pass	0.0064
-10	-0.00000632	0.00000469			2500.380006	2569.780005	Pass	-0.0025
-20	0.00000232	0.00000203			2500.379998	2569.780002	Pass	0.0009
-30	0.00000625	0.00001526			2500.379994	2569.780015	Pass	0.0060
Minimum voltage	0.00000698	0.00000363			2500.379993	2569.780004	Pass	0.0028
Maximum voltage	0.00000736	-0.00000752			2500.379993	2569.779992	Pass	-0.0029
Nominal voltage	0.00000645	0.00000825			2500.379994	2569.780008	Pass	0.0032

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n12
-----------	-----------

Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:699MHz	Highest channel limit:716MHz		Record only
50	0.00001936	-0.00001485	699.69 0000	715.42 0000	699.689981	715.419985	Pass	0.0275
40	0.00001963	-0.00001286			699.689980	715.419987	Pass	0.0279
30	0.00001569	-0.00001921			699.689984	715.419981	Pass	-0.0270
20	-0.00001589	-0.00001665			699.690016	715.419983	Pass	-0.0234
10	0.00002123	-0.00001436			699.689979	715.419986	Pass	0.0302
0	-0.00002232	-0.00001521			699.690022	715.419985	Pass	-0.0317
-10	0.00001735	-0.00001678			699.689983	715.419983	Pass	0.0246
-20	0.00002098	0.00002036			699.689979	715.420020	Pass	0.0298
-30	0.00001435	-0.00002412			699.689986	715.419976	Pass	-0.0339
Minimum voltage	-0.00001521	-0.00001658			699.690015	715.419983	Pass	-0.0233
Maximum voltage	0.00001452	0.00001846			699.689985	715.420018	Pass	0.0260
Nominal voltage	-0.00001398	-0.00002532			699.690014	715.419975	Pass	-0.0356

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n30
-----------	-----------

Frequency error versus temperature and supply voltage							
Temperature (°C)	Mid channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
		f _L (MHz)	f _H (MHz)	Lowest channel limit:2305MHz	Highest channel limit:2315MHz		Record only
50	0.00002052	2305.820000	2314.460000	2305.819979	2314.460021	Pass	0.0089
40	0.00002215			2305.819978	2314.460022	Pass	0.0096
30	-0.00002332			2305.820023	2314.459977	Pass	-0.0101
20	0.00001441			2305.819986	2314.460014	Pass	0.0062
10	0.00001532			2305.819985	2314.460015	Pass	0.0066
0	0.00000235			2305.819998	2314.460002	Pass	0.0010
-10	-0.00001732			2305.820017	2314.459983	Pass	-0.0075
-20	-0.00001836			2305.820018	2314.459982	Pass	-0.0079
-30	0.00000253			2305.819997	2314.460003	Pass	0.0011
Minimum voltage	0.00001532			2305.819985	2314.460015	Pass	0.0066
Maximum voltage	-0.00001423			2305.820014	2314.459986	Pass	-0.0062
Nominal voltage	0.00002056			2305.819979	2314.460021	Pass	0.0089

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n38
-----------	-----------

Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-10dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:2570MHz	Highest channel limit:2620MHz		Record only
50	0.00001325	0.00002012	2570.630000	2619.250000	2570.629987	2619.250020	Pass	0.0077
40	0.00002222	-0.00001353			2570.629978	2619.249986	Pass	0.0086
30	0.00002085	-0.00001985			2570.629979	2619.249980	Pass	0.0081
20	0.00001685	0.00001526			2570.629983	2619.250015	Pass	0.0065
10	0.00002263	0.00001581			2570.629977	2619.250016	Pass	0.0088
0	0.00001925	0.00000696			2570.629981	2619.250007	Pass	0.0075
-10	0.00001263	-0.00001569			2570.629987	2619.249984	Pass	-0.0060
-20	0.00002046	0.00001032			2570.629980	2619.250010	Pass	0.0079
-30	0.00001985	0.00000525			2570.629980	2619.250005	Pass	0.0077
Minimum voltage	0.00002425	0.00001435			2570.629976	2619.250014	Pass	0.0094
Maximum voltage	0.00001818	0.00000723			2570.629982	2619.250007	Pass	0.0070
Nominal voltage	0.00003252	0.00000834			2570.629967	2619.250008	Pass	0.0126

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n66
-----------	-----------

Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1710MHz	Highest channel limit:1780MHz		Record only
50	0.00000932	0.00000889	1710.360000	1779.480000	1710.359991	1779.480009	Pass	0.0054
40	0.00000235	-0.00000856			1710.359998	1779.479991	Pass	-0.0048
30	0.00000368	0.00000523			1710.359996	1779.480005	Pass	0.0030
20	-0.00000863	0.00000678			1710.360009	1779.480007	Pass	-0.0050
10	0.00000252	-0.00000523			1710.359997	1779.479995	Pass	-0.0030
0	0.00000364	0.00000525			1710.359996	1779.480005	Pass	0.0030
-10	-0.00000425	-0.00000235			1710.360004	1779.479998	Pass	-0.0025
-20	-0.00000223	0.00000863			1710.360002	1779.480009	Pass	0.0049
-30	0.00000763	-0.00000135			1710.359992	1779.479999	Pass	0.0044
Minimum voltage	-0.00000778	-0.00000378			1710.360008	1779.479996	Pass	-0.0045
Maximum voltage	-0.00000269	0.00000825			1710.360003	1779.480008	Pass	0.0047
Nominal voltage	0.00000632	-0.00000205			1710.359994	1779.479998	Pass	0.0037

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n70
-----------	-----------

Frequency error versus temperature and supply voltage							
Temperature (°C)	Mid channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
		f _L (MHz)	f _H (MHz)	Lowest channel limit:2305MHz	Highest channel limit:2315MHz		Record only
50	0.00007245	1695.480000	1709.850000	1695.479928	1709.850072	Pass	0.0426
40	0.00001463			1695.479985	1709.850015	Pass	0.0086
30	0.00007234			1695.479928	1709.850072	Pass	0.0425
20	0.00007525			1695.479925	1709.850075	Pass	0.0442
10	-0.00001286			1695.480013	1709.849987	Pass	-0.0076
0	0.00007541			1695.479925	1709.850075	Pass	0.0443
-10	0.0001464			1695.479854	1709.850146	Pass	0.0860
-20	0.00003104			1695.479969	1709.850031	Pass	0.0182
-30	0.00004662			1695.479953	1709.850047	Pass	0.0274
Minimum voltage	-0.00002168			1695.480022	1709.849978	Pass	-0.0127
Maximum voltage	-0.00002795			1695.480028	1709.849972	Pass	-0.0164
Nominal voltage	0.0001893			1695.479811	1709.850189	Pass	0.1112

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n71
-----------	-----------

Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:663MHz	Highest channel limit:698MHz		Record only
50	0.00000426	-0.00000235	663.280000	697.630000	663.279996	697.629998	Pass	0.0063
40	0.00000336	-0.00000336			663.279997	697.629997	Pass	0.0050
30	-0.00001185	-0.00000158			663.280012	697.629998	Pass	-0.0176
20	-0.00002512	0.00000999			663.280025	697.630010	Pass	-0.0373
10	-0.00000556	0.00000325			663.280006	697.630003	Pass	-0.0083
0	-0.00001436	0.00000443			663.280014	697.630004	Pass	-0.0213
-10	0.00001285	-0.00001222			663.279987	697.629988	Pass	0.0191
-20	-0.00001136	-0.00000988			663.280011	697.629990	Pass	-0.0169
-30	-0.00000238	0.00001442			663.280002	697.630014	Pass	0.0210
Minimum voltage	-0.00001424	-0.00000936			663.280014	697.629991	Pass	-0.0212
Maximum voltage	-0.00000885	-0.00000426			663.280009	697.629996	Pass	-0.0132
Nominal voltage	0.00000563	-0.00000555			663.279994	697.629994	Pass	0.0084

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

End of Test Report