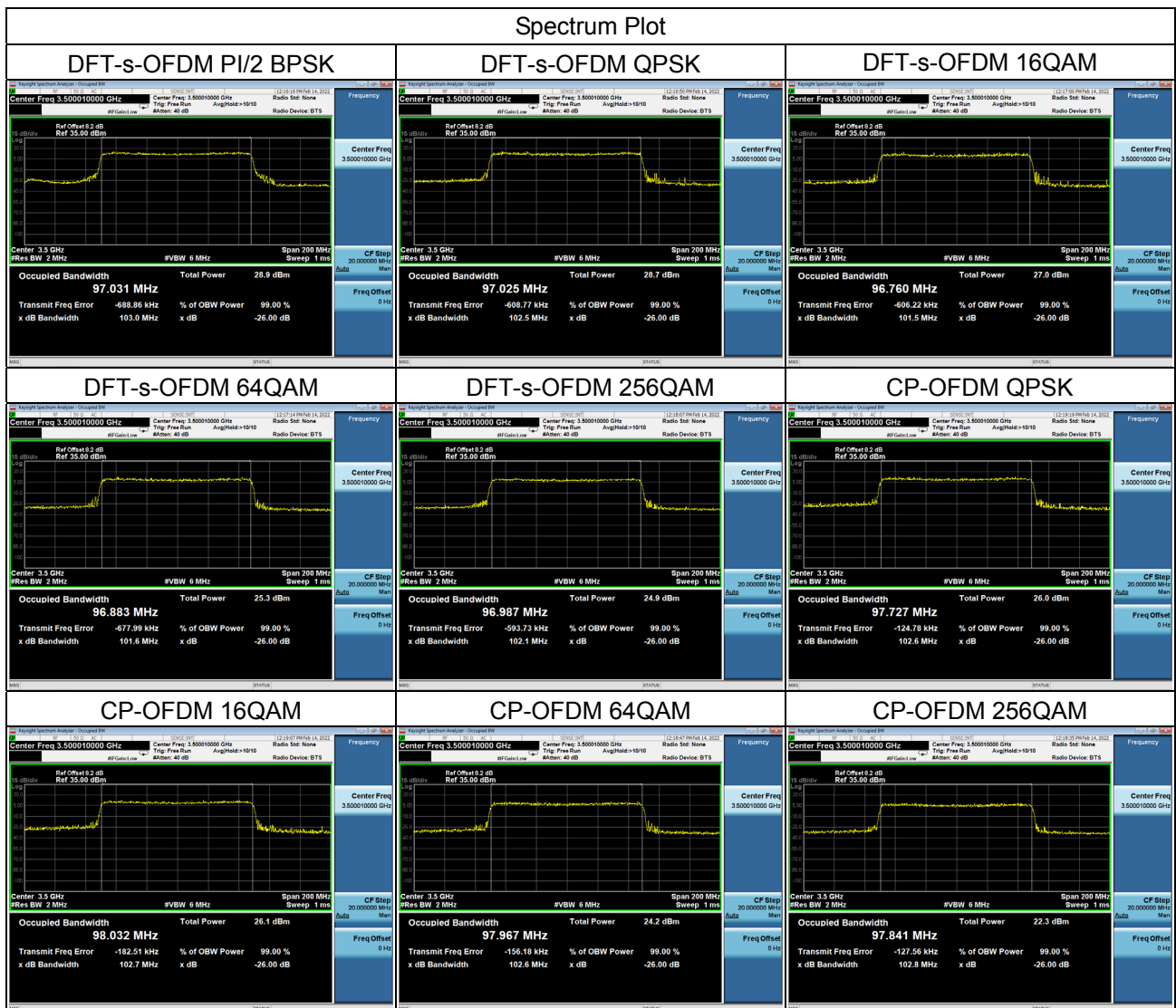
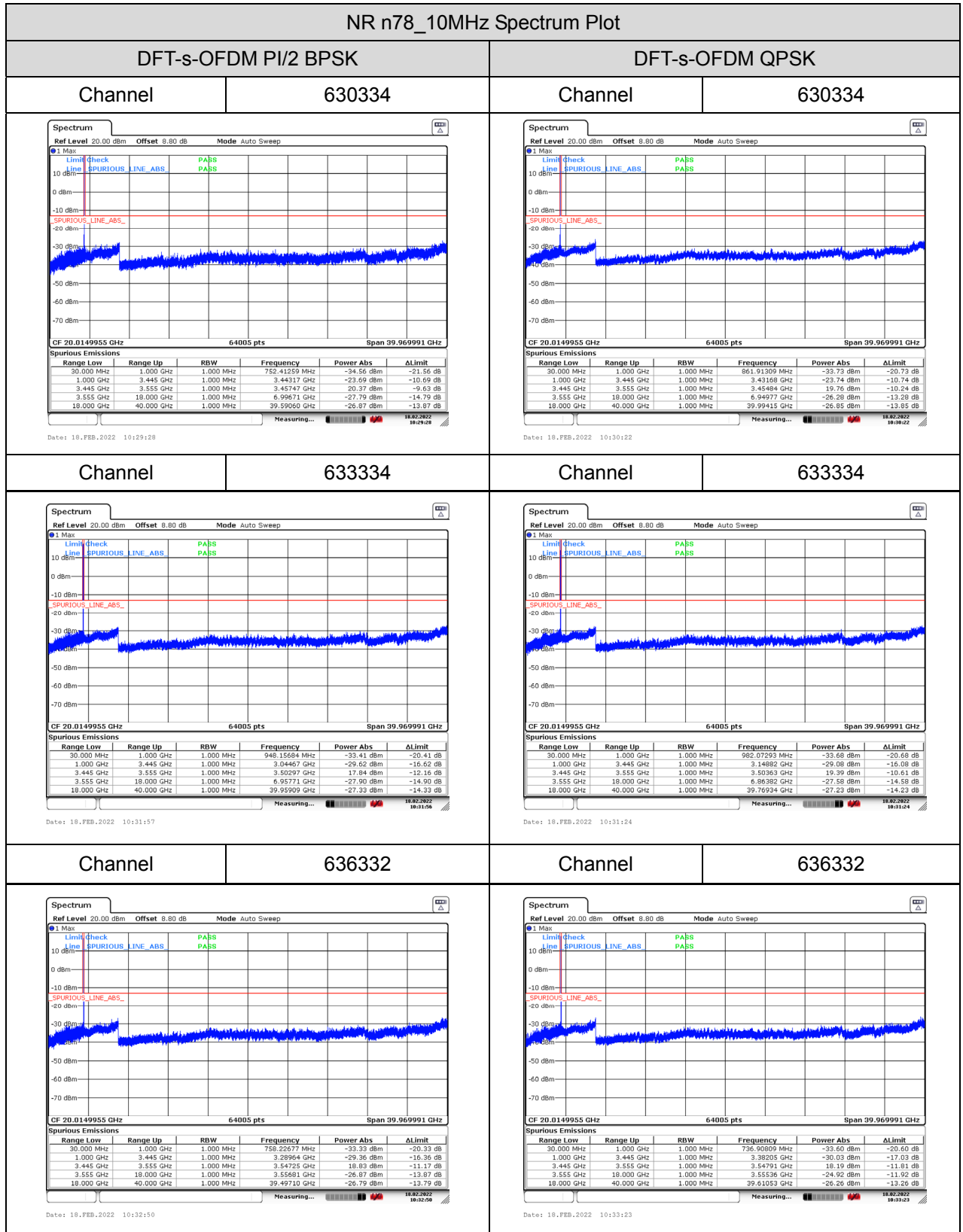
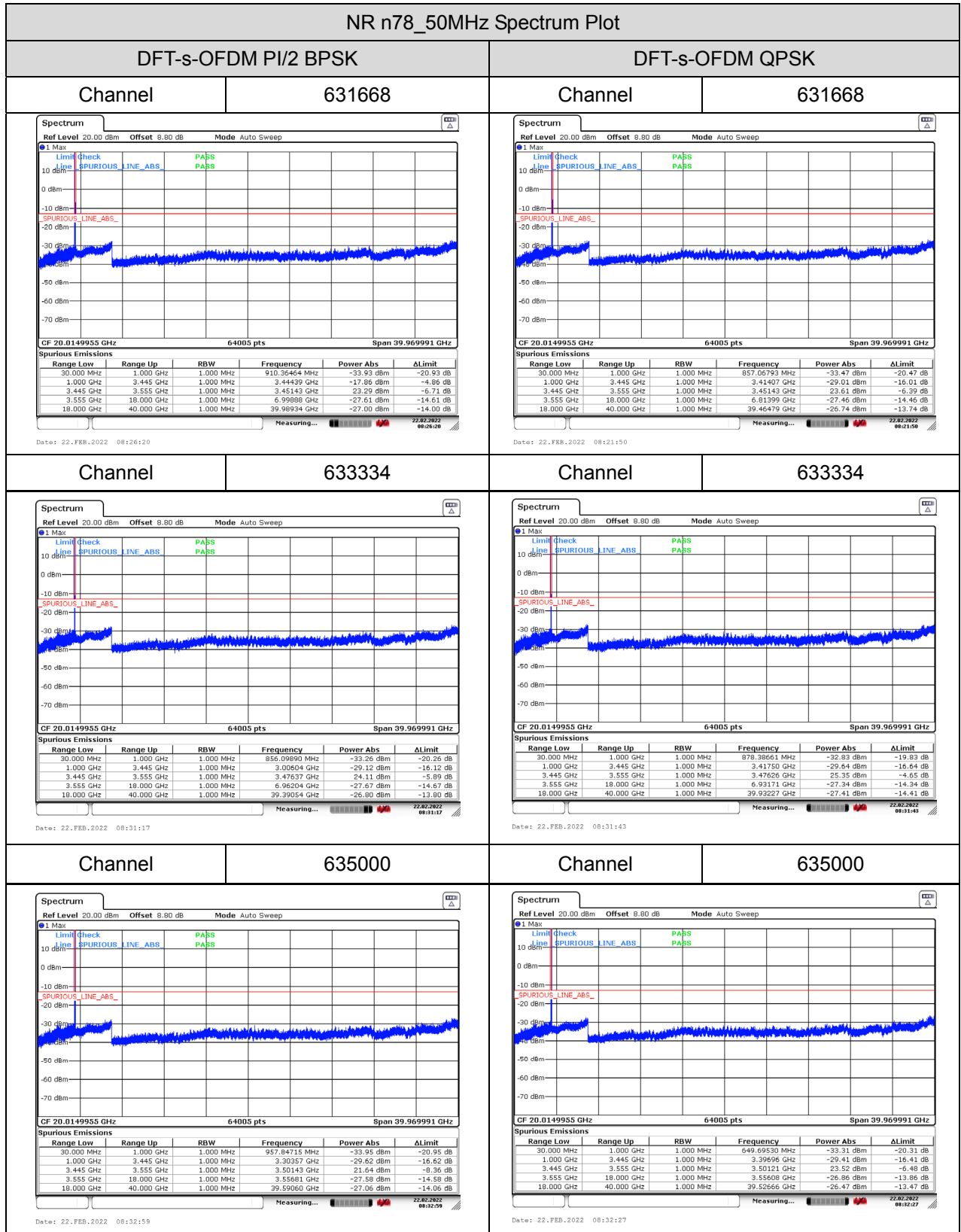


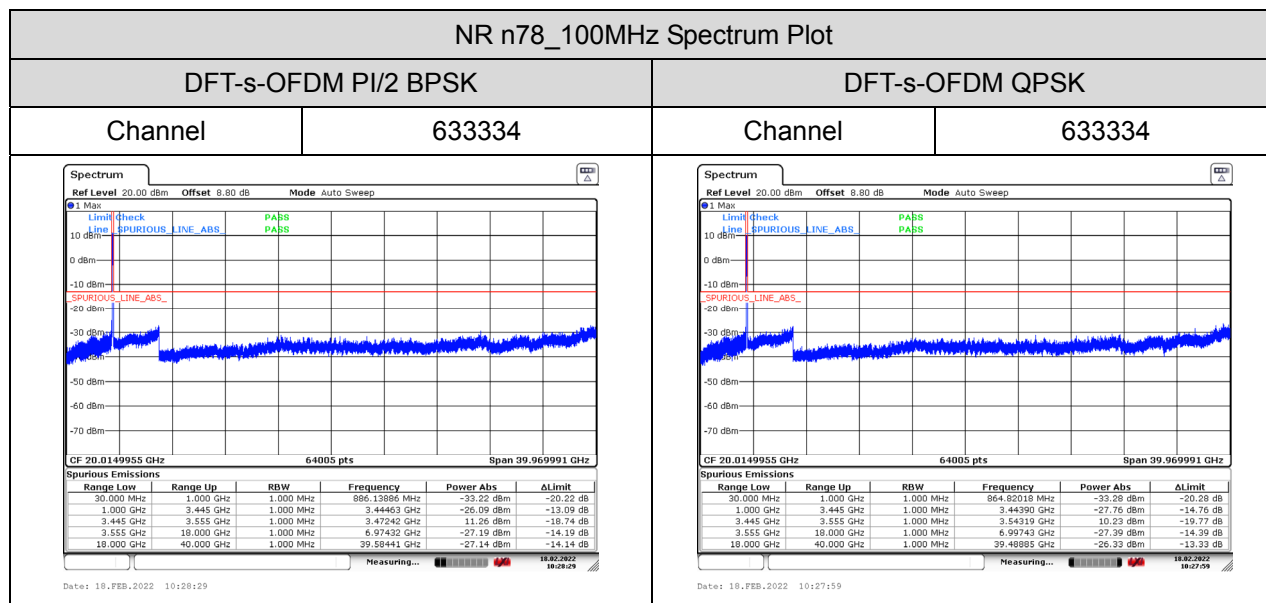
NR n78_CH633334_100MHz		
Modulation	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
DFT-s-OFDM PI/2 BPSK	97.031	103.0
DFT-s-OFDM QPSK	97.025	102.5
DFT-s-OFDM 16QAM	96.760	101.5
DFT-s-OFDM 64QAM	96.883	101.6
DFT-s-OFDM 256QAM	96.987	102.1
CP-OFDM QPSK	97.727	102.6
CP-OFDM 16QAM	98.032	102.7
CP-OFDM 64QAM	97.967	102.6
CP-OFDM 256QAM	97.841	102.8



APPENDIX C - CONDUCTED SPURIOUS EMISSIONS



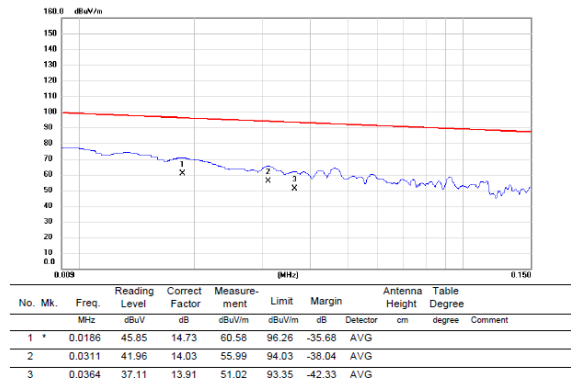




APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

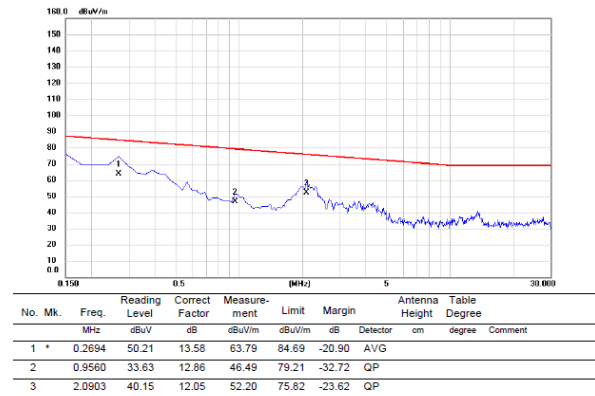
Test Mode : TX Mode

Ant 0°



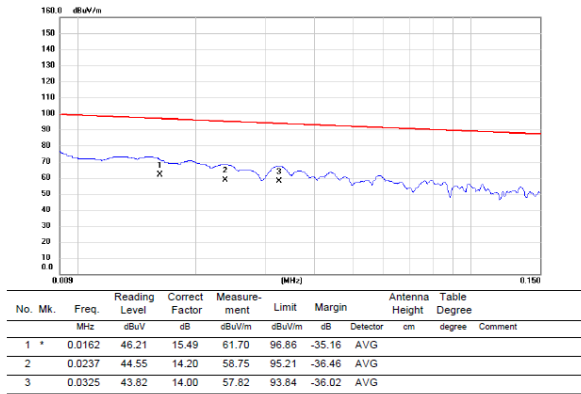
Test Mode : TX Mode

Ant 0°



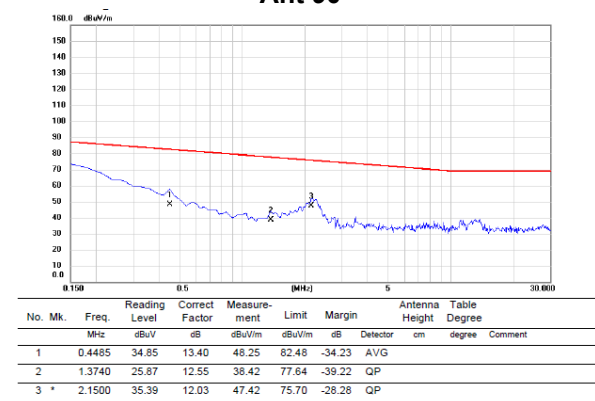
Test Mode : TX Mode

Ant 90°



Test Mode : TX Mode

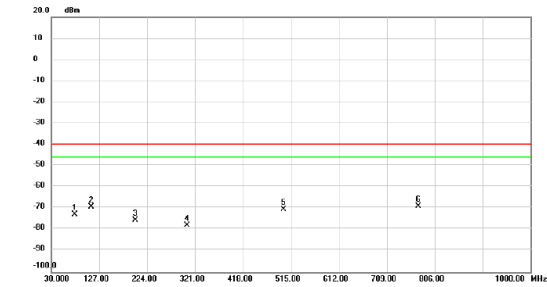
Ant 90°



APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1GHZ)

Test Mode : NR n77_TX CH633334_10MHz

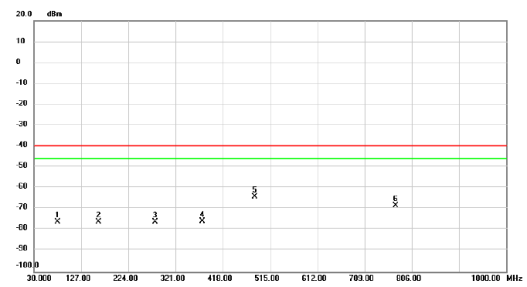
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		77.045	-55.14	-17.75	-72.89	-40.00	-32.89	peak	
2		110.510	-54.31	-15.00	-69.31	-40.00	-29.31	peak	
3		199.750	-60.26	-15.41	-75.67	-40.00	-35.67	peak	
4		304.510	-67.15	-10.81	-77.96	-40.00	-37.96	peak	
5		499.965	-63.84	-6.54	-70.38	-40.00	-30.38	peak	
6	*	773.020	-67.61	-1.36	-68.97	-40.00	-28.97	peak	

Test Mode : NR n77_TX CH633334_10MHz

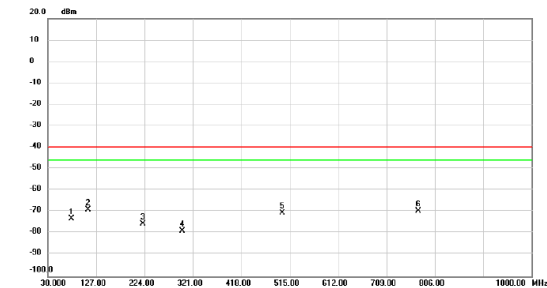
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		78.015	-58.16	-17.96	-76.12	-40.00	-36.12	peak	
2		162.405	-63.85	-12.42	-76.27	-40.00	-36.27	peak	
3		278.320	-64.52	-11.68	-76.20	-40.00	-36.20	peak	
4		376.290	-66.55	-9.34	-75.89	-40.00	-35.89	peak	
5	*	482.990	-57.36	-6.84	-64.20	-40.00	-24.20	peak	
6		773.020	-67.01	-1.36	-68.37	-40.00	-28.37	peak	

Test Mode : NR n77_TX CH633334_100MHz

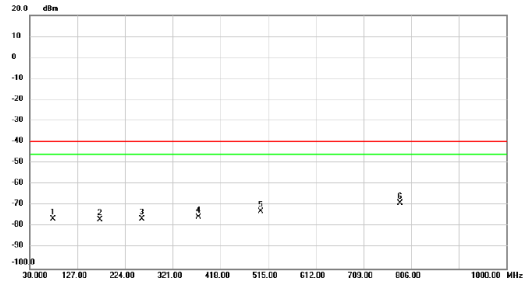
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		77.530	-55.19	-17.86	-73.05	-40.00	-33.05	peak	
2	*	110.995	-54.14	-14.95	-69.09	-40.00	-29.09	peak	
3		220.605	-60.72	-14.76	-75.48	-40.00	-35.48	peak	
4		300.145	-67.86	-10.89	-78.75	-40.00	-38.75	peak	
5		499.965	-64.03	-6.54	-70.57	-40.00	-30.57	peak	
6		772.535	-68.05	-1.37	-69.42	-40.00	-29.42	peak	

Test Mode : NR n77_TX CH633334_100MHz

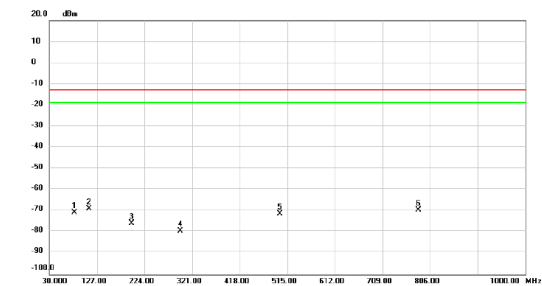
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		77.530	-58.60	-17.86	-76.46	-40.00	-36.46	peak	
2		172.590	-63.82	-12.86	-76.68	-40.00	-36.68	peak	
3		257.950	-63.85	-12.64	-76.49	-40.00	-36.49	peak	
4		372.895	-66.07	-9.42	-75.49	-40.00	-35.49	peak	
5		499.965	-66.27	-6.54	-72.81	-40.00	-32.81	peak	
6	*	783.205	-67.91	-1.11	-69.02	-40.00	-29.02	peak	

Test Mode : NR n78_TX CH633334_10MHz

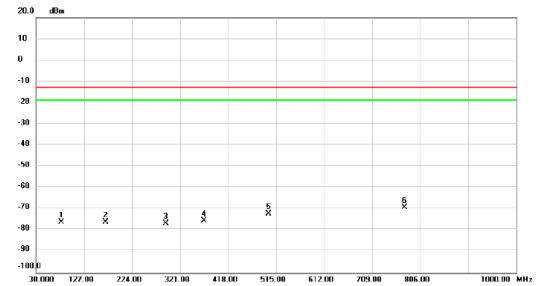
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		80.4400	-52.48	-18.40	-70.88	-13.00	-57.88	peak	
2	*	110.9950	-54.01	-14.95	-68.96	-13.00	-55.96	peak	
3		197.8100	-60.49	-15.31	-75.80	-13.00	-62.80	peak	
4		296.7500	-68.37	-11.00	-79.37	-13.00	-66.37	peak	
5		499.9650	-64.79	-6.54	-71.33	-13.00	-58.33	peak	
6		781.7500	-68.53	-1.14	-69.67	-13.00	-56.67	peak	

Test Mode : NR n78_TX CH633334_10MHz

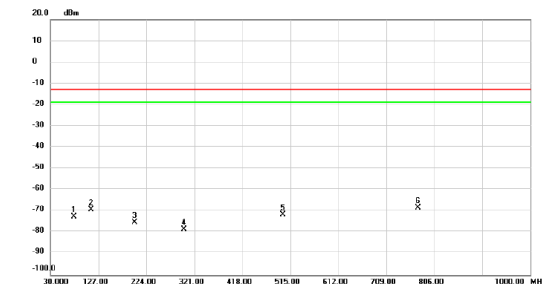
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		80.4400	-57.77	-18.40	-76.17	-13.00	-63.17	peak	
2		169.6800	-63.60	-12.57	-76.17	-13.00	-63.17	peak	
3		291.9000	-65.65	-11.15	-76.80	-13.00	-63.80	peak	
4		369.9850	-66.08	-9.49	-75.57	-13.00	-62.57	peak	
5		499.9650	-65.78	-6.54	-72.32	-13.00	-59.32	peak	
6	*	773.9900	-67.84	-1.34	-69.18	-13.00	-56.18	peak	

Test Mode : NR n78_TX CH633334_100MHz

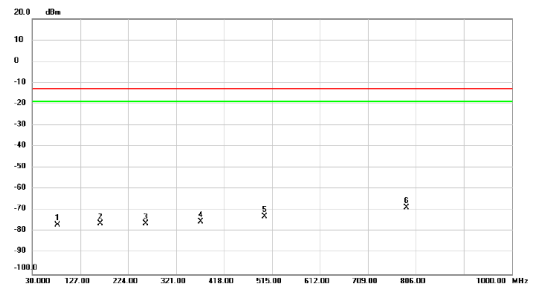
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		77.5300	-54.75	-17.86	-72.61	-13.00	-59.61	peak	
2		111.4800	-54.26	-14.90	-69.16	-13.00	-56.16	peak	
3		200.2350	-59.97	-15.41	-75.38	-13.00	-62.38	peak	
4		300.1450	-67.75	-10.89	-78.64	-13.00	-65.64	peak	
5		499.9650	-65.02	-6.54	-71.56	-13.00	-58.56	peak	
6	*	773.0200	-67.06	-1.36	-68.42	-13.00	-55.42	peak	

Test Mode : NR n78_TX CH633334_100MHz

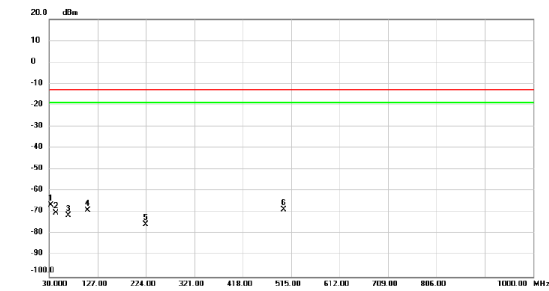
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		80.4400	-58.27	-18.40	-76.67	-13.00	-63.67	peak	
2		167.7400	-63.47	-12.53	-76.00	-13.00	-63.00	peak	
3		258.9200	-63.49	-12.61	-76.10	-13.00	-63.10	peak	
4		370.4700	-65.70	-9.47	-75.17	-13.00	-62.17	peak	
5		499.9650	-66.32	-6.54	-72.86	-13.00	-59.86	peak	
6	*	786.6000	-67.65	-1.02	-68.67	-13.00	-55.67	peak	

Test Mode : DC 7A_n78A_TX Mid CH_10MHz

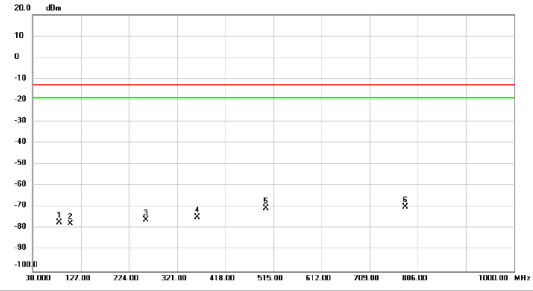
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	*	33.3950	-51.26	-15.16	-66.42	-13.00	-53.42	peak	
2		43.5800	-56.19	-13.94	-70.13	-13.00	-57.13	peak	
3		68.3150	-55.55	-15.88	-71.43	-13.00	-58.43	peak	
4		106.6300	-53.31	-15.55	-68.86	-13.00	-55.86	peak	
5		223.0300	-61.13	-14.54	-75.67	-13.00	-62.67	peak	
6		499.9650	-62.13	-6.54	-68.67	-13.00	-55.67	peak	

Test Mode : DC 7A_n78A_TX Mid CH_10MHz

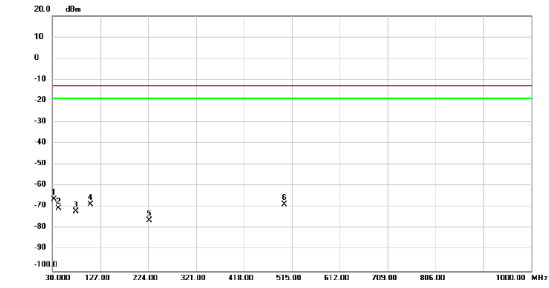
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		83.3500	-58.56	-18.58	-77.14	-13.00	-64.14	peak	
2		106.1450	-62.02	-15.62	-77.64	-13.00	-64.64	peak	
3		258.4350	-63.34	-12.63	-75.97	-13.00	-62.97	peak	
4		362.2250	-65.01	-9.67	-74.68	-13.00	-61.68	peak	
5		499.9650	-63.86	-6.54	-70.40	-13.00	-57.40	peak	
6	*	781.2650	-68.83	-1.15	-69.98	-13.00	-56.98	peak	

Test Mode : DC 7A_n78A_TX Mid CH_100MHz

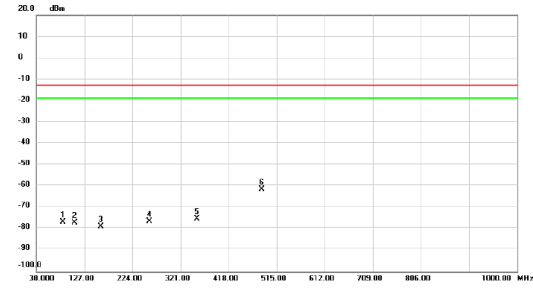
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	*	33.3950	-51.14	-15.16	-66.30	-13.00	-53.30	peak	
2		42.6100	-56.65	-13.95	-70.60	-13.00	-57.60	peak	
3		77.5300	-54.06	-17.86	-71.92	-13.00	-58.92	peak	
4		106.6300	-53.10	-15.55	-68.65	-13.00	-55.65	peak	
5		225.9400	-62.01	-14.29	-76.30	-13.00	-63.30	peak	
6		499.9650	-62.25	-6.54	-68.79	-13.00	-55.79	peak	

Test Mode : DC 7A_n78A_TX Mid CH_100MHz

Horizontal



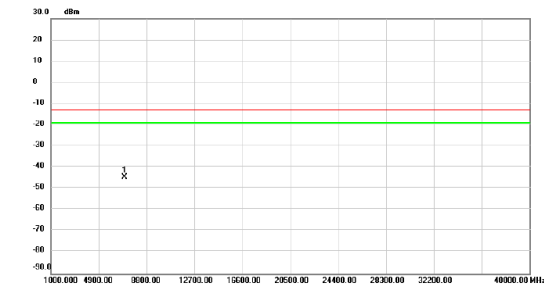
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		83.8350	-58.03	-18.61	-76.64	-13.00	-63.64	peak	
2		106.6300	-61.41	-15.55	-76.96	-13.00	-63.96	peak	
3		159.4950	-66.33	-12.39	-78.72	-13.00	-65.72	peak	
4		258.4350	-63.73	-12.63	-76.36	-13.00	-63.36	peak	
5		353.9800	-65.24	-9.88	-75.12	-13.00	-62.12	peak	
6	*	484.4450	-54.67	-6.81	-61.48	-13.00	-48.48	peak	

APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1GHZ)

Test Mode : NR n77_TX CH633334_10MHz

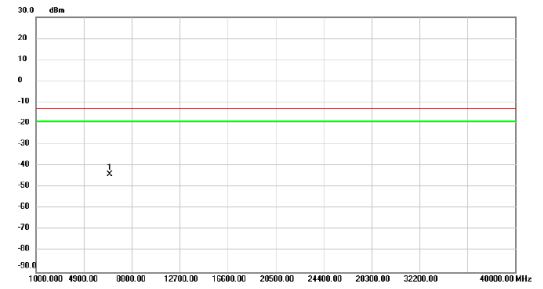
Test Mode : NR n77_TX CH633334_10MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	6997.850	-66.60	22.02	-44.58	-13.00	-31.58	peak	

Horizontal

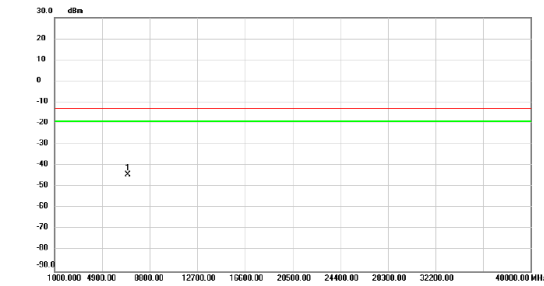


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	6995.680	-65.89	22.01	-43.88	-13.00	-30.88	peak	

Test Mode : NR n77_TX CH633334_100MHz

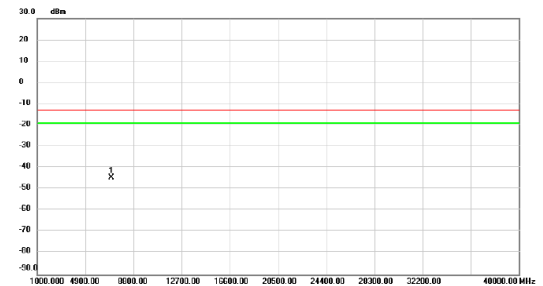
Test Mode : NR n77_TX CH633334_100MHz

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	6996.200	-66.21	22.02	-44.19	-13.00	-31.19	peak	

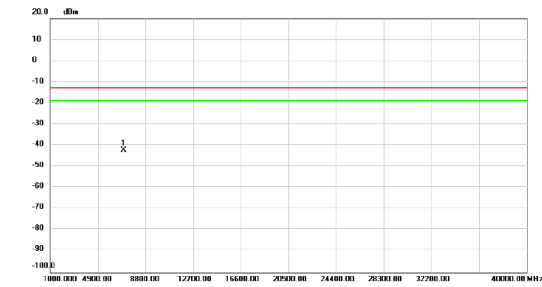
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	7000.340	-66.43	22.03	-44.40	-13.00	-31.40	peak	

Test Mode : NR n78_TX CH633334_10MHz

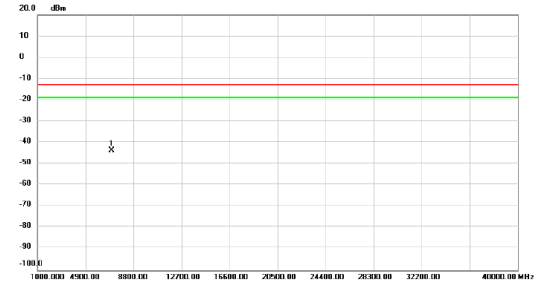
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	6999.275	-52.51	10.29	-42.22	-13.00	-29.22	peak	

Test Mode : NR n78_TX CH633334_10MHz

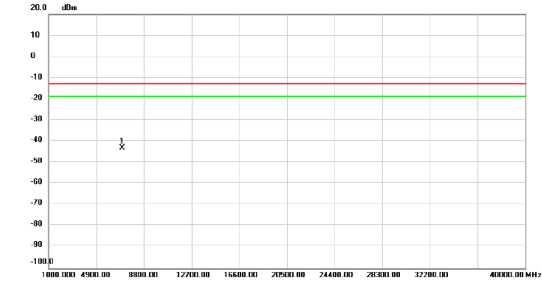
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	6996.988	-53.91	10.28	-43.63	-13.00	-30.63	peak	

Test Mode : NR n78_TX CH633334_100MHz

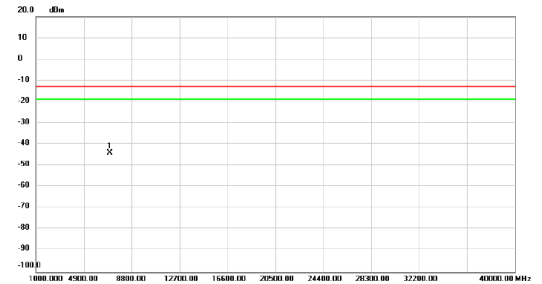
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	7001.545	-53.59	10.29	-43.30	-13.00	-30.30	peak	

Test Mode : NR n78_TX CH633334_100MHz

Horizontal

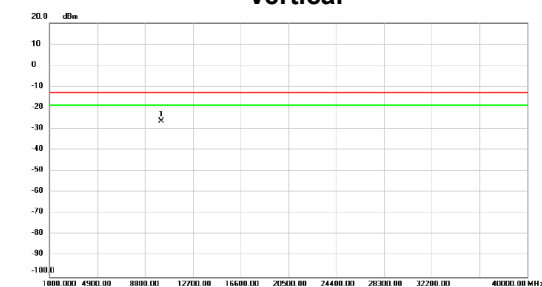


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	6999.023	-54.38	10.29	-44.09	-13.00	-31.09	peak	

Test Mode : DC 7A_n78A_TX Mid CH_10MHz

Test Mode : DC 7A_n78A_TX Mid CH_10MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	10131.31	-39.55	13.27	-26.28	-13.00	-13.28	peak	

Horizontal

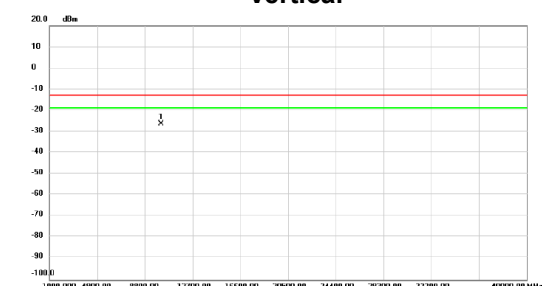


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	10131.43	-45.59	13.27	-32.32	-13.00	-19.32	peak	

Test Mode : DC 7A_n78A_TX Mid CH_100MHz

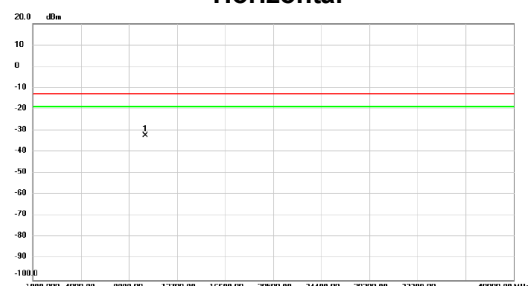
Test Mode : DC 7A_n78A_TX Mid CH_100MHz

Vertical



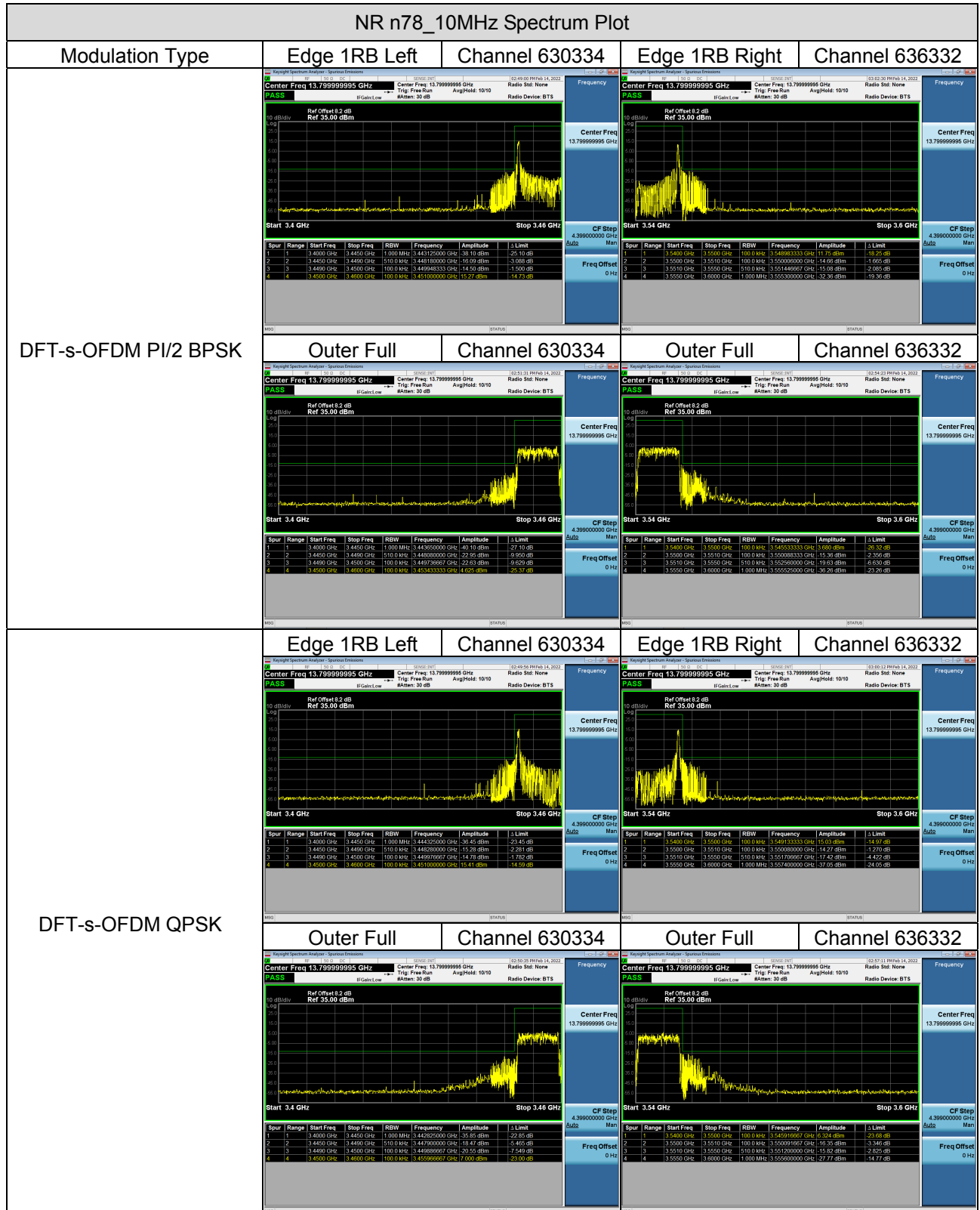
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	10131.30	-39.74	13.27	-26.47	-13.00	-13.47	peak	

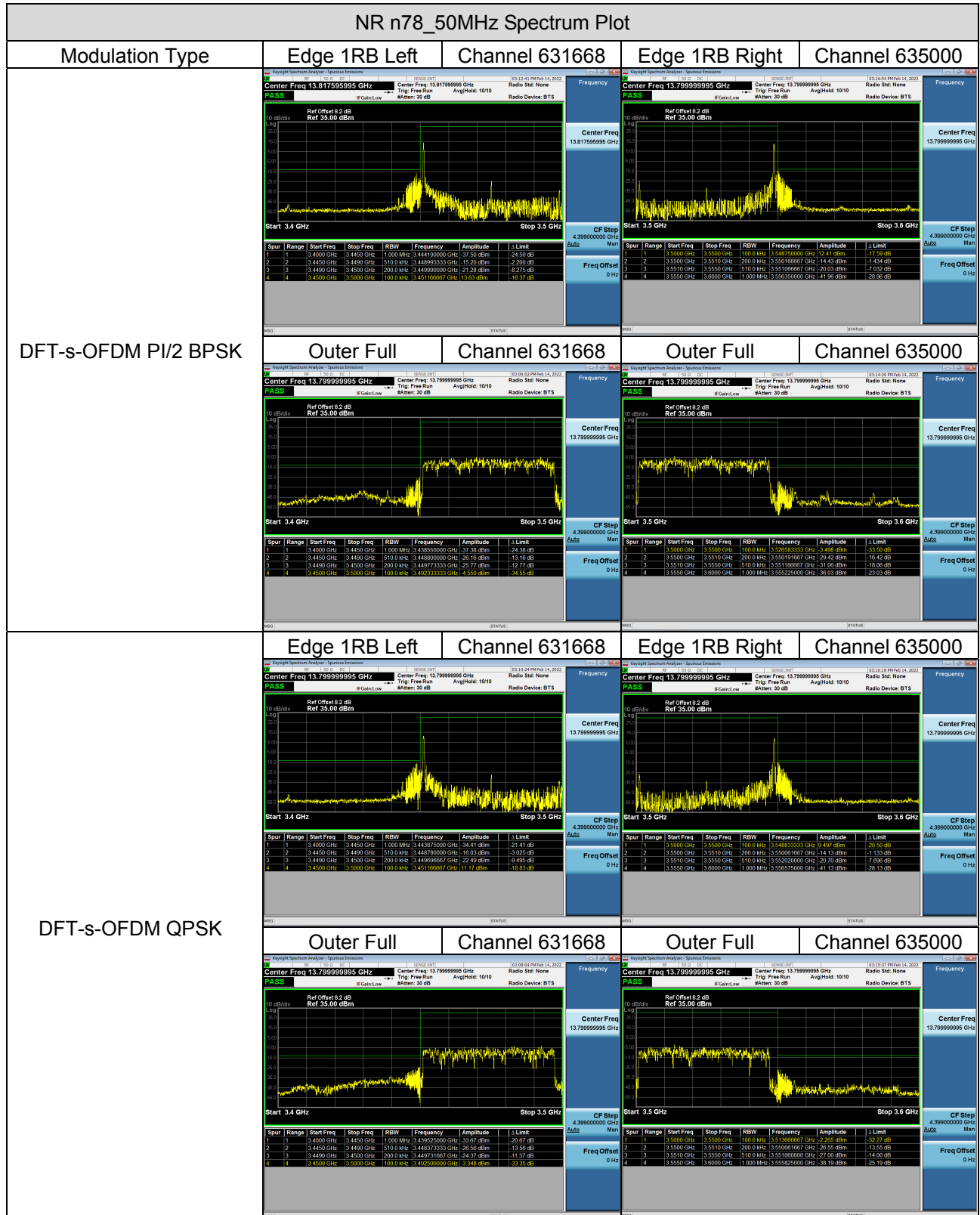
Horizontal

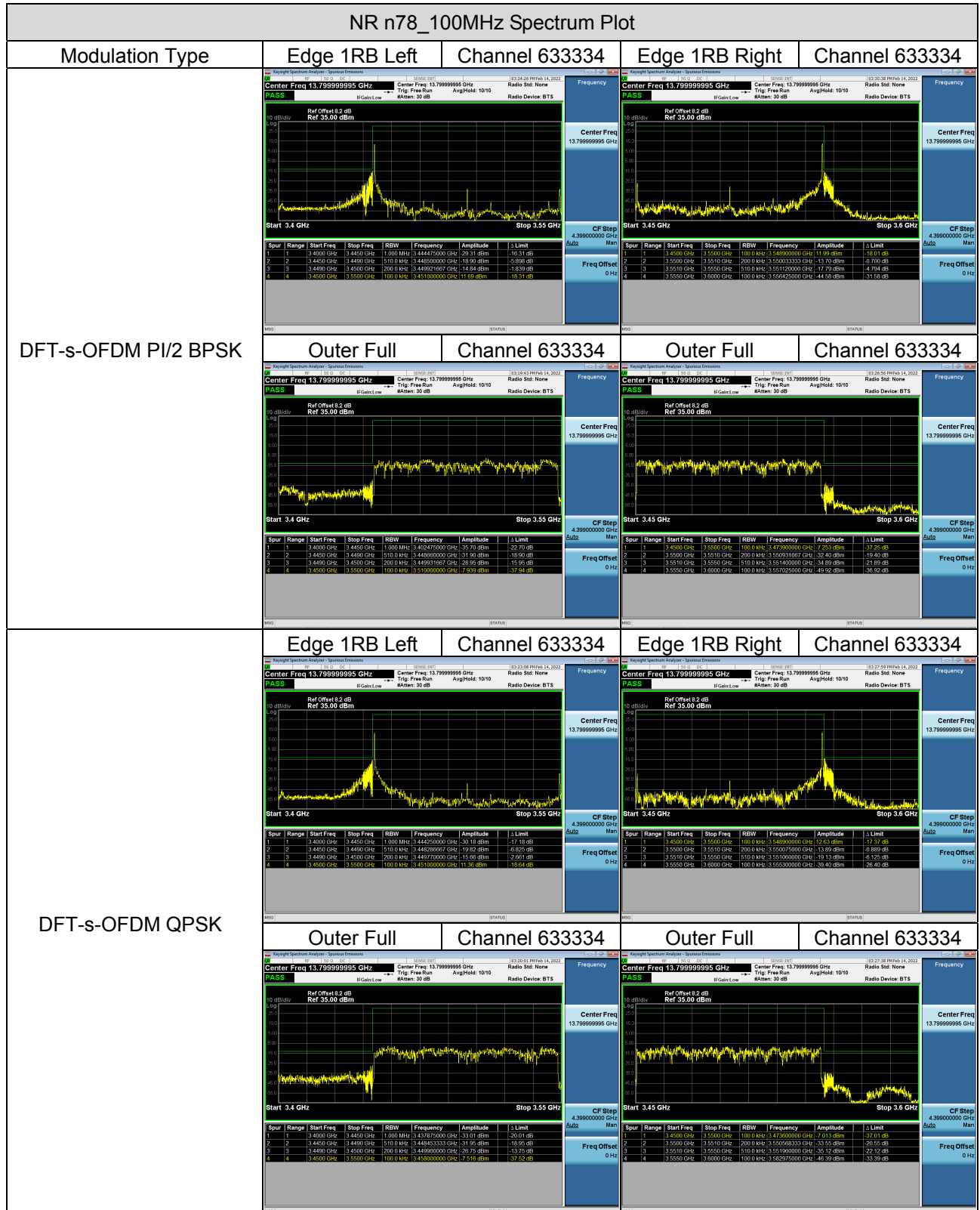


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	10131.31	-45.64	13.27	-32.37	-13.00	-19.37	peak	

APPENDIX G - BAND EDGE

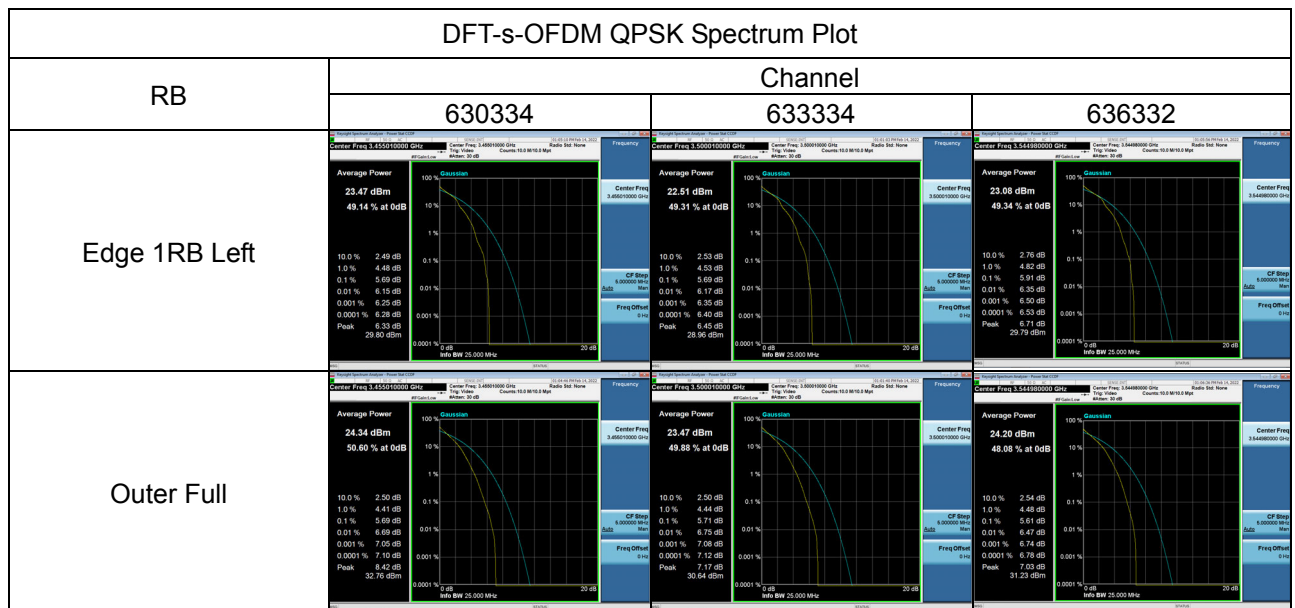
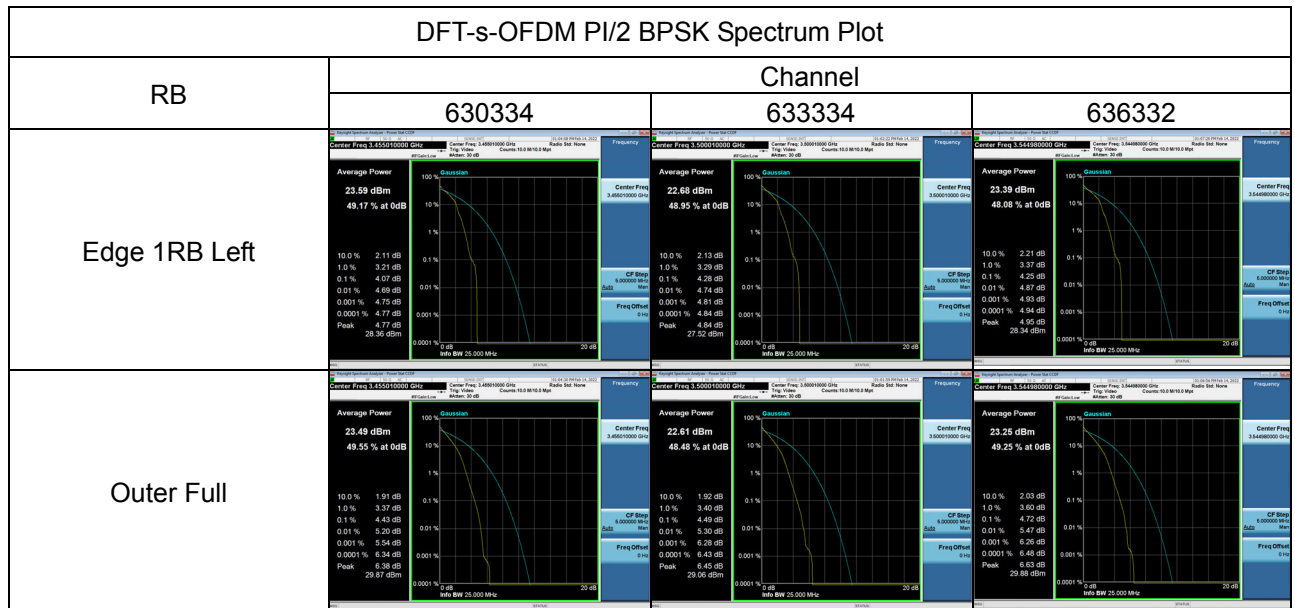






APPENDIX H - PEAK TO AVERAGE RATIO

NR n78_10MHz							
Channel	Frequency (MHz)	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		
630334	3455.01	4.07	4.43	5.69	5.69	13	Pass
633334	3500.01	4.28	4.49	5.69	5.71	13	Pass
636332	3544.98	4.25	4.72	5.91	5.61	13	Pass



APPENDIX I - FREQUENCY STABILITY

Test Mode	NR n78_10MHz
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Frequency error versus temperature and supply voltage			
Temperature (°C)	Frequency (MHz)		worst ppm
	Low channel limit: 3450 Reference point -13dBm	High channel limit: 3550 Reference point -13dBm	Record only
50	3450.610000	3549.360000	-180.28169
40	3450.610000	3549.360000	-180.28169
30	3450.610000	3549.360000	-180.28169
20	3450.610000	3549.360000	-180.28169
10	3450.610000	3549.360000	-180.28169
0	3450.610000	3549.360000	-180.28169
-10	3450.610000	3549.360000	-180.28169
-20	3450.610000	3549.360000	-180.28169
-30	3450.610000	3549.360000	-180.28169
Minimum voltage	3450.610000	3549.360000	-180.28169
Maximum voltage	3450.610000	3549.360000	-180.28169
Nominal voltage	3450.610000	3549.360000	-180.28169

Note: Nominal voltage= 12V, Maximum voltage= 12.6V, Minimum voltage= 11.4V.

End of Test Report