

# FR1 ENDC\_(n)41AA (ANT0+1) – SCS30kHz

## Transmitter Conducted Output Power

**Note:** NRAA Power test three conditions: LTE Max & NR Min / LTE Min & NR Max / LTE & NR Averaged, the maximum power only show NR Max, and the other items only test LTE & NR Averaged, due to the LTE Max and NR Max have been tested stand alone mode separately.

NR Band	SCS	Band Width	Arfcn/ NR	Arfcn/ LTE	Freq (MHz)/ NR	Freq (MHz)/ LTE	Modulation	NR RB	LTE RB	LTE Power	NR Power	Conducted Power (dBm)	Conducted Power (W)
41AA	30	10+20	500220	39851	2501.1	2516.1	DFT-s-OFDM QPSK	1@1	0@0	-77.8	25.54	25.54	0.3581
41AA	30	10+20	500220	39851	2501.1	2516.1	DFT-s-OFDM 16 QAM	1@1	0@0	-77.23	24.72	24.72	0.2965
41AA	30	10+20	516600	40670	2583	2598	DFT-s-OFDM QPSK	1@1	0@0	-77.82	25.53	25.53	0.3573
41AA	30	10+20	516600	40670	2583	2598	DFT-s-OFDM 16 QAM	1@1	0@0	-77.79	24.54	24.54	0.2844
41AA	30	10+20	537000	41390	2685	2670	DFT-s-OFDM QPSK	1@1	0@0	-77.27	25.33	25.33	0.3412
41AA	30	10+20	537000	41390	2685	2670	DFT-s-OFDM 16 QAM	1@1	0@0	-77.48	24.24	24.24	0.2655
41AA	30	15+20	500742	39902	2503.71	2521.2	DFT-s-OFDM QPSK	1@1	0@0	-77.46	25.56	25.56	0.3597
41AA	30	15+20	500742	39902	2503.71	2521.2	DFT-s-OFDM 16 QAM	1@1	0@0	-77.37	24.65	24.65	0.2917
41AA	30	15+20	516582	40694	2582.91	2600.4	DFT-s-OFDM QPSK	1@1	0@0	-77.46	25.58	25.58	0.3614
41AA	30	15+20	516582	40694	2582.91	2600.4	DFT-s-OFDM 16 QAM	1@1	0@0	-77.84	24.83	24.83	0.3041
41AA	30	15+20	536478	41339	2682.39	2664.9	DFT-s-OFDM QPSK	1@1	0@0	-77.64	25.43	25.43	0.3491
41AA	30	15+20	536478	41339	2682.39	2664.9	DFT-s-OFDM 16 QAM	1@1	0@0	-77.31	24.41	24.41	0.2761
41AA	30	20+20	501258	39953	2506.29	2526.3	DFT-s-OFDM QPSK	1@1	0@0	-77.32	25.39	25.39	0.3459
41AA	30	20+20	501258	39953	2506.29	2526.3	DFT-s-OFDM 16 QAM	1@1	0@0	-77.23	24.45	24.45	0.2786
41AA	30	20+20	516618	40721	2583.09	2603.1	DFT-s-OFDM QPSK	1@1	0@0	-77.63	25.7	25.70	0.3715
41AA	30	20+20	516618	40721	2583.09	2603.1	DFT-s-OFDM 16 QAM	1@1	0@0	-77.86	24.46	24.46	0.2793
41AA	30	20+20	535962	41288	2679.81	2659.8	DFT-s-OFDM QPSK	1@1	0@0	-77.8	25.74	25.74	0.3750
41AA	30	20+20	535962	41288	2679.81	2659.8	DFT-s-OFDM 16 QAM	1@1	0@0	-77.79	24.41	24.41	0.2761
41AA	30	30+20	502242	40052	2511.21	2536.2	DFT-s-OFDM QPSK	1@1	0@0	-77.52	25.69	25.69	0.3707
41AA	30	30+20	502242	40052	2511.21	2536.2	DFT-s-OFDM 16 QAM	1@1	0@0	-77.7	24.71	24.71	0.2958
41AA	30	30+20	516642	40772	2583.21	2608.2	DFT-s-OFDM QPSK	1@1	0@0	-77.33	25.7	25.70	0.3715
41AA	30	30+20	516642	40772	2583.21	2608.2	DFT-s-OFDM 16 QAM	1@1	0@0	-77.36	24.87	24.87	0.3069
41AA	30	30+20	534978	41189	2674.89	2649.9	DFT-s-OFDM QPSK	1@1	0@0	-77.83	25.52	25.52	0.3565
41AA	30	30+20	534978	41189	2674.89	2649.9	DFT-s-OFDM 16 QAM	1@1	0@0	-77.47	24.52	24.52	0.2831
41AA	30	35+20	502758	40103	2513.79	2541.3	DFT-s-OFDM QPSK	1@1	0@0	-77.76	25.89	25.89	0.3882
41AA	30	35+20	502758	40103	2513.79	2541.3	DFT-s-OFDM 16 QAM	1@1	0@0	-77.47	24.55	24.55	0.2851
41AA	30	35+20	516618	40796	2583.09	2610.6	DFT-s-OFDM QPSK	1@1	0@0	-77.84	25.88	25.88	0.3873
41AA	30	35+20	516618	40796	2583.09	2610.6	DFT-s-OFDM 16 QAM	1@1	0@0	-77.84	24.85	24.85	0.3055
41AA	30	35+20	534462	41138	2672.31	2644.8	DFT-s-OFDM QPSK	1@1	0@0	-77.37	25.89	25.89	0.3882
41AA	30	35+20	534462	41138	2672.31	2644.8	DFT-s-OFDM 16 QAM	1@1	0@0	-77.37	24.49	24.49	0.2812
41AA	30	40+20	503220	40151	2516.1	2546.1	DFT-s-OFDM QPSK	1@1	0@0	-77.49	25.34	25.34	0.3420
41AA	30	40+20	503220	40151	2516.1	2546.1	DFT-s-OFDM 16 QAM	1@1	0@0	-77.27	24.38	24.38	0.2742
41AA	30	40+20	516600	40820	2583	2613	DFT-s-OFDM QPSK	1@1	0@0	-77.88	25.73	25.73	0.3741

41AA	30	40+20	516600	40820	2583	2613	DFT-s-OFDM 16 QAM	1@1	0@0	-77.6	24.72	24.72	0.2965
41AA	30	40+20	534000	41090	2670	2640	DFT-s-OFDM QPSK	1@1	0@0	-77.66	25.63	25.63	0.3656
41AA	30	40+20	534000	41090	2670	2640	DFT-s-OFDM 16 QAM	1@1	0@0	-77.53	24.83	24.83	0.3041
41AA	30	50+20	504258	40253	2521.29	2556.3	DFT-s-OFDM QPSK	1@1	0@0	-77.39	25.28	25.28	0.3373
41AA	30	50+20	504258	40253	2521.29	2556.3	DFT-s-OFDM 16 QAM	1@1	0@0	-77.61	24.5	24.50	0.2818
41AA	30	50+20	516618	40871	2583.09	2618.1	DFT-s-OFDM QPSK	1@1	0@0	-77.66	25.24	25.24	0.3342
41AA	30	50+20	516618	40871	2583.09	2618.1	DFT-s-OFDM 16 QAM	1@1	0@0	-77.33	24.66	24.66	0.2924
41AA	30	50+20	532962	40988	2664.81	2629.8	DFT-s-OFDM QPSK	1@1	0@0	-77.73	25.58	25.58	0.3614
41AA	30	50+20	532962	40988	2664.81	2629.8	DFT-s-OFDM 16 QAM	1@1	0@0	-77.54	24.66	24.66	0.2924
41AA	30	60+20	505242	40352	2526.21	2566.2	DFT-s-OFDM QPSK	1@1	0@0	-77.69	25.49	25.49	0.3540
41AA	30	60+20	505242	40352	2526.21	2566.2	DFT-s-OFDM 16 QAM	1@1	0@0	-77.39	24.37	24.37	0.2735
41AA	30	60+20	516582	40919	2582.91	2622.9	DFT-s-OFDM QPSK	1@1	0@0	-77.73	25.29	25.29	0.3381
41AA	30	60+20	516582	40919	2582.91	2622.9	DFT-s-OFDM 16 QAM	1@1	0@0	-77.62	24.25	24.25	0.2661
41AA	30	60+20	531978	40889	2659.89	2619.9	DFT-s-OFDM QPSK	1@1	0@0	-77.78	25.44	25.44	0.3499
41AA	30	60+20	531978	40889	2659.89	2619.9	DFT-s-OFDM 16 QAM	1@1	0@0	-77.67	24.86	24.86	0.3062
41AA	30	70+20	508200	40550	2541	2586	DFT-s-OFDM QPSK	1@1	0@0	-77.26	25.32	25.32	0.3404
41AA	30	70+20	508200	40550	2541	2586	DFT-s-OFDM 16 QAM	1@1	0@0	-77.64	24.85	24.85	0.3055
41AA	30	70+20	516600	40970	2583	2628	DFT-s-OFDM QPSK	1@1	0@0	-77.42	25.75	25.75	0.3758
41AA	30	70+20	516600	40970	2583	2628	DFT-s-OFDM 16 QAM	1@1	0@0	-77.29	24.65	24.65	0.2917
41AA	30	70+20	531000	40790	2655	2610	DFT-s-OFDM QPSK	1@1	0@0	-77.81	25.67	25.67	0.3690
41AA	30	70+20	531000	40790	2655	2610	DFT-s-OFDM 16 QAM	1@1	0@0	-77.87	24.83	24.83	0.3041
41AA	30	80+20	507258	40553	2536.29	2586.3	DFT-s-OFDM QPSK	1@1	0@0	-77.42	25.42	25.42	0.3483
41AA	30	80+20	507258	40553	2536.29	2586.3	DFT-s-OFDM 16 QAM	1@1	0@0	-77.41	24.43	24.43	0.2773
41AA	30	80+20	516618	41021	2583.09	2633.1	DFT-s-OFDM QPSK	1@1	0@0	-77.88	25.88	25.88	0.3873
41AA	30	80+20	516618	41021	2583.09	2633.1	DFT-s-OFDM 16 QAM	1@1	0@0	-77.35	24.83	24.83	0.3041
41AA	30	80+20	529962	40688	2649.81	2599.8	DFT-s-OFDM QPSK	1@1	0@0	-77.56	25.82	25.82	0.3819
41AA	30	80+20	529962	40688	2649.81	2599.8	DFT-s-OFDM 16 QAM	1@1	0@0	-77.83	24.55	24.55	0.2851
41AA	30	90+20	508242	40652	2541.21	2596.2	DFT-s-OFDM QPSK	1@1	0@0	-77.76	25.55	25.55	0.3589
41AA	30	90+20	508242	40652	2541.21	2596.2	DFT-s-OFDM 16 QAM	1@1	0@0	-77.29	24.58	24.58	0.2871
41AA	30	90+20	516582	41069	2582.91	2637.9	DFT-s-OFDM QPSK	1@1	0@0	-77.54	25.22	25.22	0.3327
41AA	30	90+20	516582	41069	2582.91	2637.9	DFT-s-OFDM 16 QAM	1@1	0@0	-77.37	24.38	24.38	0.2742
41AA	30	90+20	528978	40589	2644.89	2589.9	DFT-s-OFDM QPSK	1@1	0@0	-77.88	25.21	25.21	0.3319
41AA	30	90+20	528978	40589	2644.89	2589.9	DFT-s-OFDM 16 QAM	1@1	0@0	-77.73	24.22	24.22	0.2642
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM PI/2 BPSK	135@67	0@0	-78.4	25.51	25.51	0.3556
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM PI/2 BPSK	1@1	0@0	-78.36	25.22	25.22	0.3327
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM PI/2 BPSK	1@271	0@0	-78.39	25.31	25.31	0.3396
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM QPSK	135@67	0@0	-78.45	25.61	25.61	0.3639
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM QPSK	1@1	0@0	-78.37	25.2	25.20	0.3311
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM QPSK	1@271	0@0	-78.38	25.27	25.27	0.3365
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 16 QAM	135@67	0@0	-78.25	24.62	24.62	0.2897
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 16 QAM	1@1	0@0	-78.34	24.24	24.24	0.2655
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 16 QAM	1@271	0@0	-78.26	24.37	24.37	0.2735
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 64 QAM	135@67	0@0	-78.19	23.1	23.10	0.2042
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 64 QAM	1@1	0@0	-78.29	22.79	22.79	0.1901
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 64 QAM	1@271	0@0	-78.69	22.9	22.90	0.1950

41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 256 QAM	135@67	0@0	-78.54	21.41	21.41	0.1384
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 256 QAM	1@1	0@0	-78.38	21	21.00	0.1259
41AA	30	100+20	509220	40751	2546.1	2606.1	DFT-s-OFDM 256 QAM	1@271	0@0	-78.69	21.08	21.08	0.1282
41AA	30	100+20	509220	40751	2546.1	2606.1	CP-OFDM QPSK	137@68	0@0	-78.33	24.08	24.08	0.2559
41AA	30	100+20	509220	40751	2546.1	2606.1	CP-OFDM QPSK	1@1	0@0	-78	23.7	23.70	0.2344
41AA	30	100+20	509220	40751	2546.1	2606.1	CP-OFDM QPSK	1@271	0@0	-78.24	23.84	23.84	0.2421
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM PI/2 BPSK	135@67	0@0	-67.06	25.49	25.49	0.3540
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM PI/2 BPSK	1@1	0@0	-67.5	25.22	25.22	0.3327
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM PI/2 BPSK	1@271	0@0	-67.41	25.64	25.64	0.3664
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM QPSK	135@67	0@0	-67.29	25.49	25.49	0.3540
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM QPSK	1@1	0@0	-67.16	25.23	25.23	0.3334
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM QPSK	1@271	0@0	-66.89	25.69	25.69	0.3707
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 16 QAM	135@67	0@0	-67.25	24.57	24.57	0.2864
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 16 QAM	1@1	0@0	-65.29	24.34	24.34	0.2716
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 16 QAM	1@271	0@0	-68.35	24.75	24.75	0.2985
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 64 QAM	135@67	0@0	-66.19	23.07	23.07	0.2028
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 64 QAM	1@1	0@0	-66.28	22.9	22.90	0.1950
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 64 QAM	1@271	0@0	-66.34	23.34	23.34	0.2158
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 256 QAM	135@67	0@0	-66.31	21.35	21.35	0.1365
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 256 QAM	1@1	0@0	-66.29	21.1	21.10	0.1288
41AA	30	100+20	516600	41120	2583	2643	DFT-s-OFDM 256 QAM	1@271	0@0	-66.57	21.34	21.34	0.1361
41AA	30	100+20	516600	41120	2583	2643	CP-OFDM QPSK	137@68	0@0	-66.22	24.07	24.07	0.2553
41AA	30	100+20	516600	41120	2583	2643	CP-OFDM QPSK	1@1	0@0	-65.39	23.76	23.76	0.2377
41AA	30	100+20	516600	41120	2583	2643	CP-OFDM QPSK	1@271	0@0	-66.81	24.13	24.13	0.2588
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM PI/2 BPSK	135@67	0@0	-68.33	25.6	25.60	0.3631
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM PI/2 BPSK	1@1	0@0	-68.68	25.02	25.02	0.3177
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM PI/2 BPSK	1@271	0@0	-68.35	26.15	<b>26.15</b>	0.4121
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM QPSK	135@67	0@0	-68.37	25.62	25.62	0.3648
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM QPSK	1@1	0@0	-68.49	25.03	25.03	0.3184
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM QPSK	1@271	0@0	-68.23	26.14	26.14	0.4111
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 16 QAM	135@67	0@0	-68.29	24.65	24.65	0.2917
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 16 QAM	1@1	0@0	-68.25	24.39	24.39	0.2748
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 16 QAM	1@271	0@0	-68.39	25.25	25.25	0.3350
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 64 QAM	135@67	0@0	-68.33	23.21	23.21	0.2094
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 64 QAM	1@1	0@0	-68.54	22.42	22.42	0.1746
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 64 QAM	1@271	0@0	-68.21	23.54	23.54	0.2259
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 256 QAM	135@67	0@0	-68.11	21.41	21.41	0.1384
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 256 QAM	1@1	0@0	-68.24	20.82	20.82	0.1208
41AA	30	100+20	528000	40490	2640	2580	DFT-s-OFDM 256 QAM	1@271	0@0	-68.27	21.79	21.79	0.1510
41AA	30	100+20	528000	40490	2640	2580	CP-OFDM QPSK	137@68	0@0	-68.29	24.17	24.17	0.2612
41AA	30	100+20	528000	40490	2640	2580	CP-OFDM QPSK	1@1	0@0	-68.19	23.5	23.50	0.2239
41AA	30	100+20	528000	40490	2640	2580	CP-OFDM QPSK	1@271	0@0	-68.33	24.6	24.60	0.2884

## Peak-to-Average Ratio

Mode	FR1 N41AA / BW 20MHz+20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	7.83	8.87	7.94	8.03	<b>PASS</b>
Middle CH	7.83	7.22	8.78	8.41	
Highest CH	6.99	7.25	8.41	8.32	

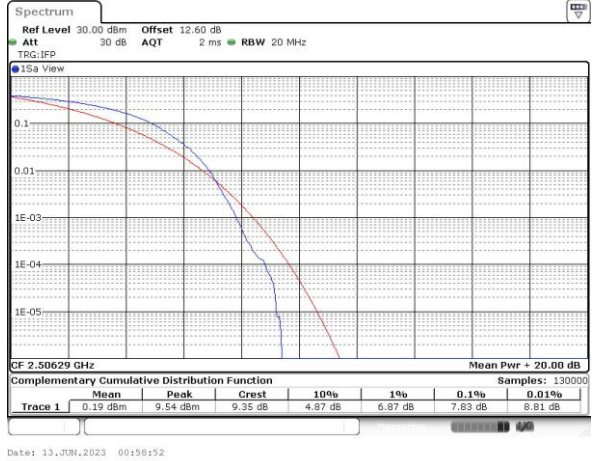
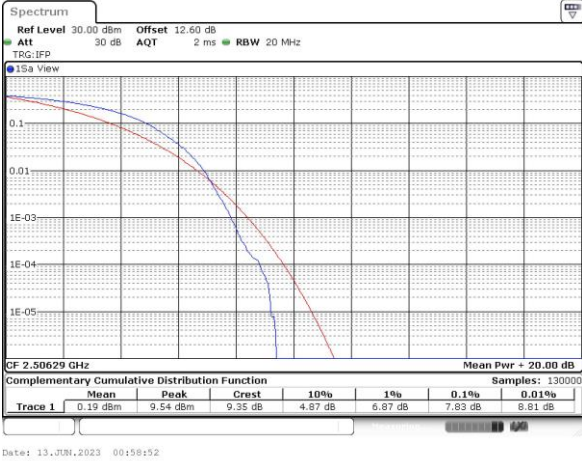
**FR1 N41AA / BW 20MHz+20MHz / DFT-S OFDM**

**PI/2 BPSK**

**QPSK**

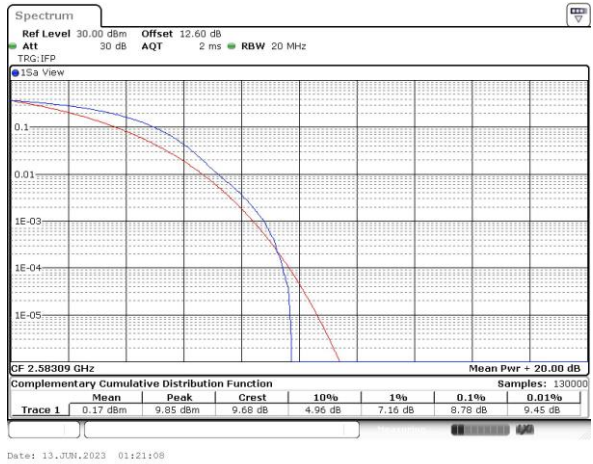
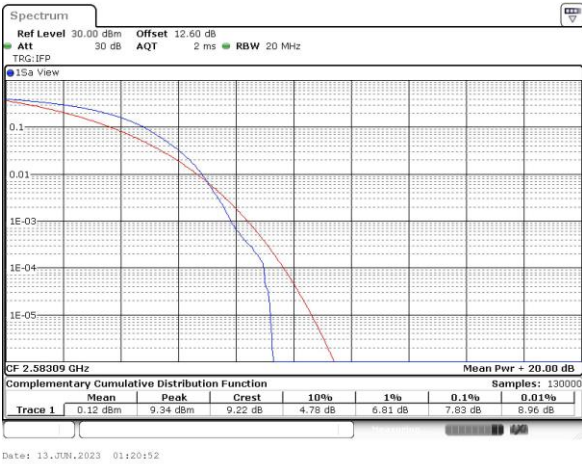
**Lowest Channel / 1 RB**

**Lowest Channel / 1 RB**



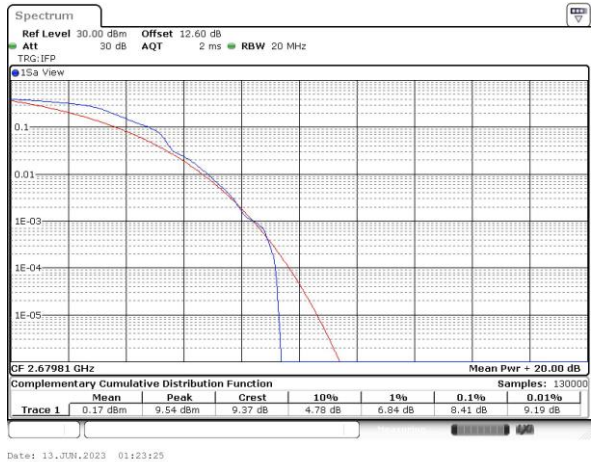
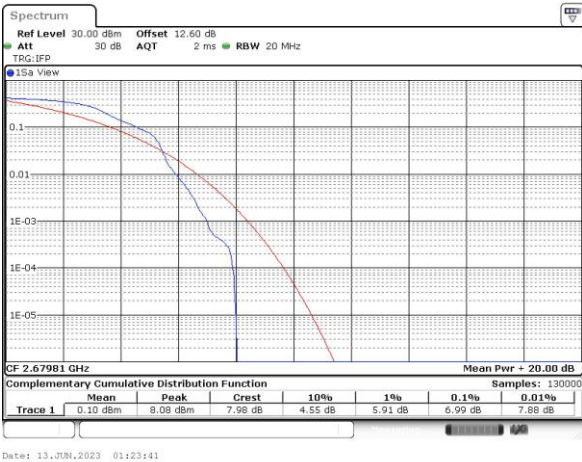
**Middle Channel / 1 RB**

**Middle Channel / 1 RB**



**Highest Channel / 1 RB**

**Highest Channel / 1 RB**



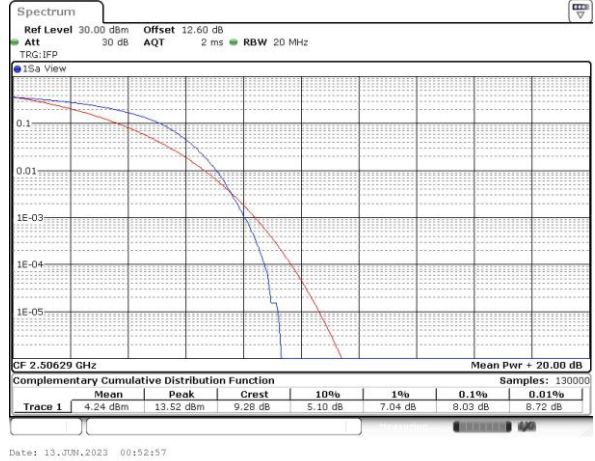
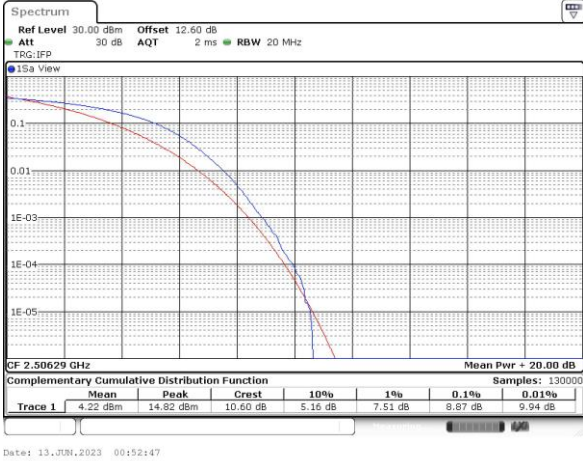
FR1 N41AA / BW 20MHz+20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

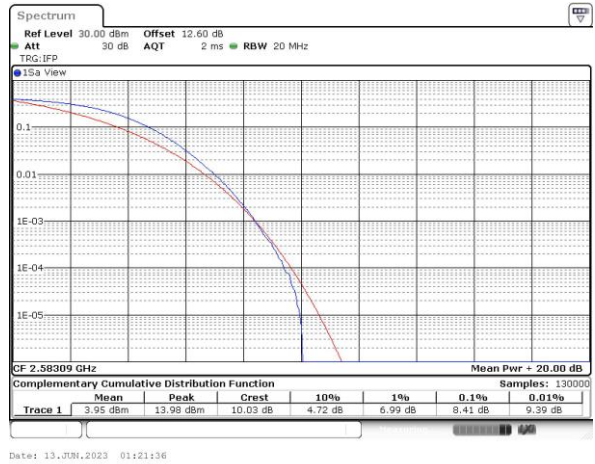
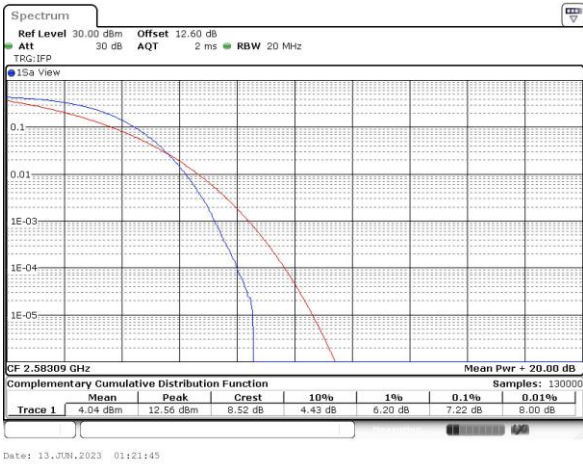
Lowest Channel / Full RB

Lowest Channel / Full RB



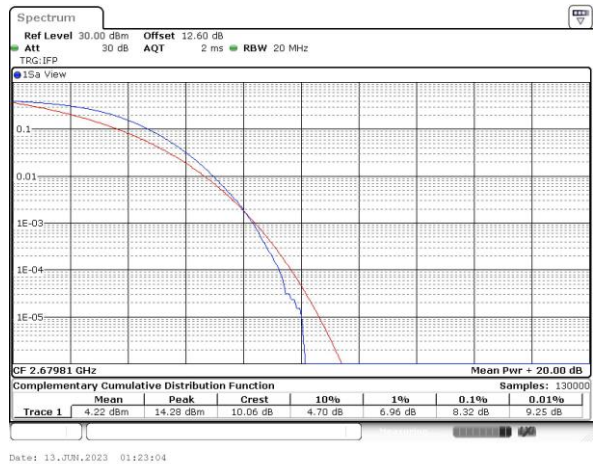
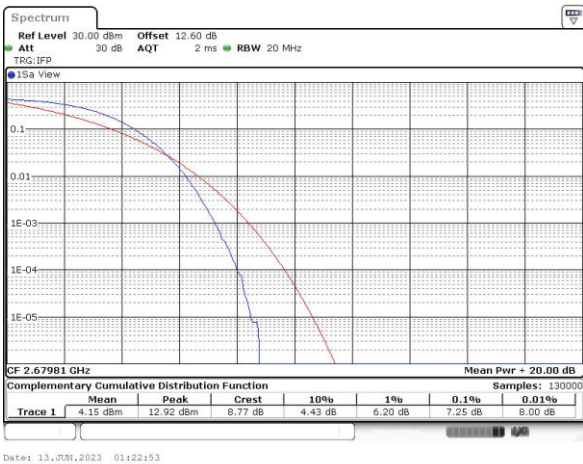
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB



## 26dB Bandwidth

Mode	FR1 N41AA : 26dB BW(MHz) / CP-OFDM			
<b>BW</b>	<b>10M+20M</b>	<b>10M+20M</b>	<b>10M+20M</b>	<b>10M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	29.55	29.49	29.55	29.85
<b>BW</b>	<b>15M+20M</b>	<b>15M+20M</b>	<b>15M+20M</b>	<b>15M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	34.76	24.83	34.83	34.97
<b>BW</b>	<b>20M+20M</b>	<b>20M+20M</b>	<b>20M+20M</b>	<b>20M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	40.2	40.2	40.12	40.12
<b>BW</b>	<b>30M+20M</b>	<b>30M+20M</b>	<b>30M+20M</b>	<b>30M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	49.75	49.55	49.55	29.65
<b>BW</b>	<b>35M+20M</b>	<b>35M+20M</b>	<b>35M+20M</b>	<b>35M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	55.05	55.05	55.16	55.16
<b>BW</b>	<b>40M+20M</b>	<b>40M+20M</b>	<b>40M+20M</b>	<b>40M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	59.82	59.82	59.58	59.82
<b>BW</b>	<b>50M+20M</b>	<b>50M+20M</b>	<b>50M+20M</b>	<b>50M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	70.07	69.93	70.07	70.35
<b>BW</b>	<b>60M+20M</b>	<b>60M+20M</b>	<b>60M+20M</b>	<b>60M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	79.92	79.92	79.76	79.92
<b>BW</b>	<b>70M+20M</b>	<b>70M+20M</b>	<b>70M+20M</b>	<b>70M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	90.09	89.73	89.91	89.73
<b>BW</b>	<b>80M+20M</b>	<b>80M+20M</b>	<b>80M+20M</b>	<b>80M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	100.3	100.5	100.7	100.5
<b>BW</b>	<b>90M+20M</b>	<b>90M+20M</b>	<b>90M+20M</b>	<b>90M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	110.33	110.11	110.33	110.11
<b>BW</b>	<b>100M+20M</b>	<b>100M+20M</b>	<b>100M+20M</b>	<b>100M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	120.12	120.12	120.12	120.12

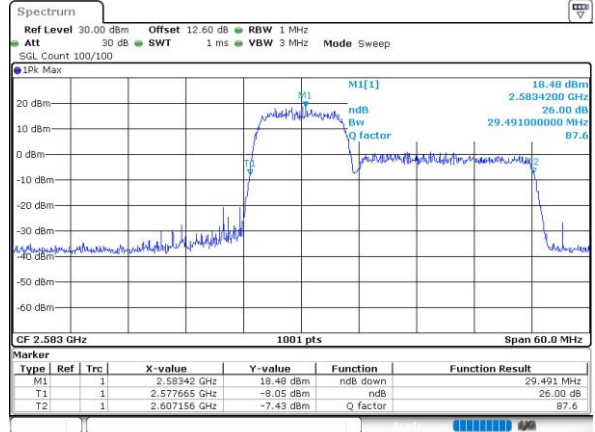
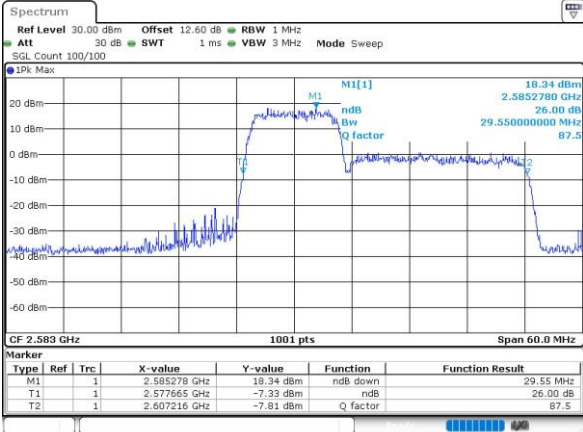
FR1 N41AA / 10MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

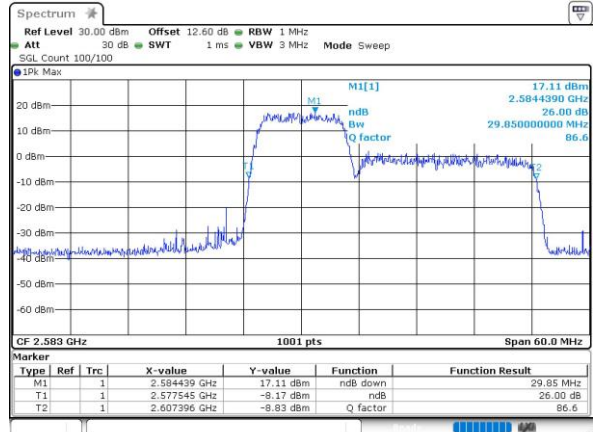
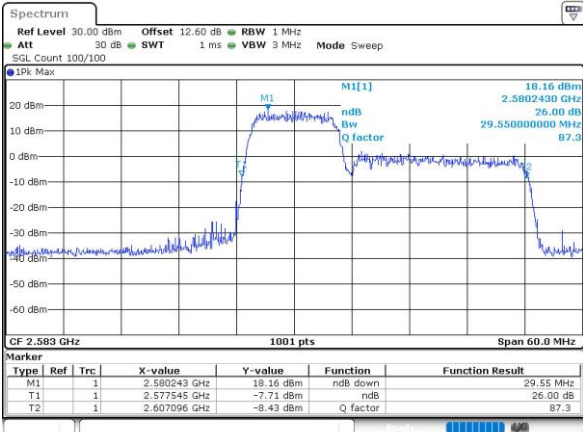


64QAM

256QAM

Middle Channel

Middle Channel





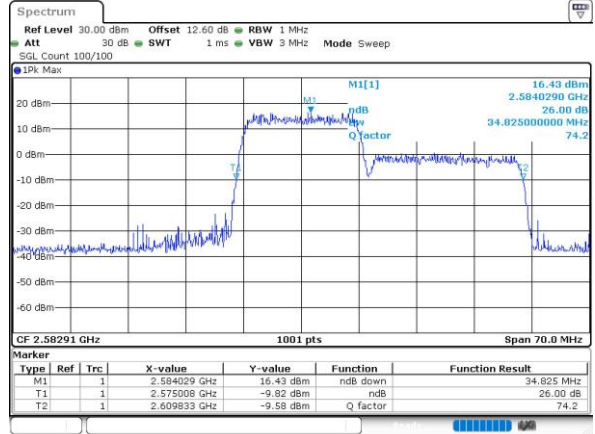
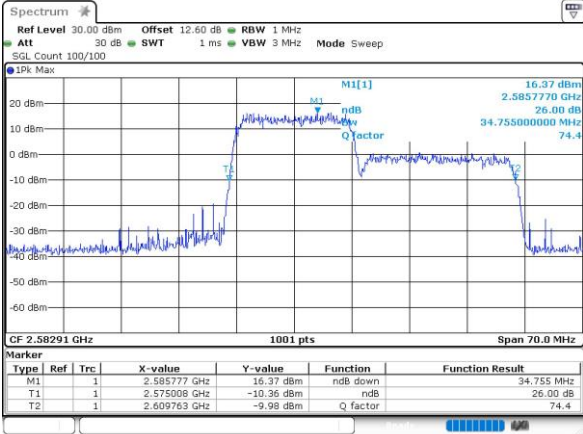
FR1 N41AA / 15MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:58:50

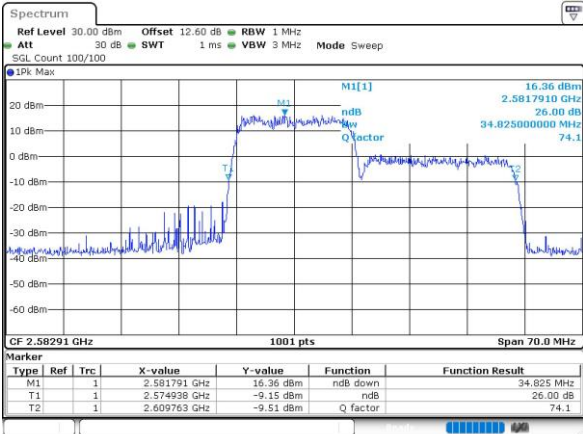
Date: 13 JUN 2023 06:59:02

64QAM

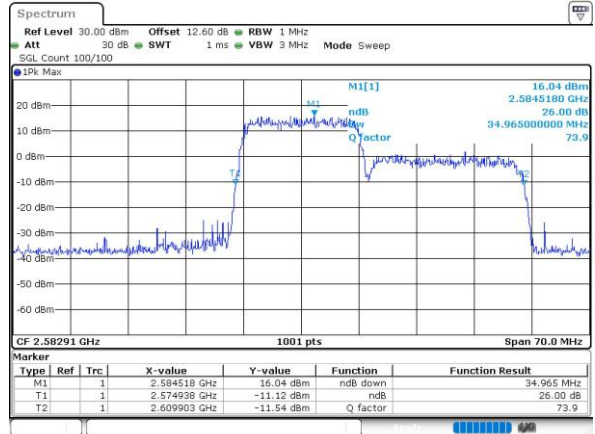
256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:59:12



Date: 13 JUN 2023 06:59:22

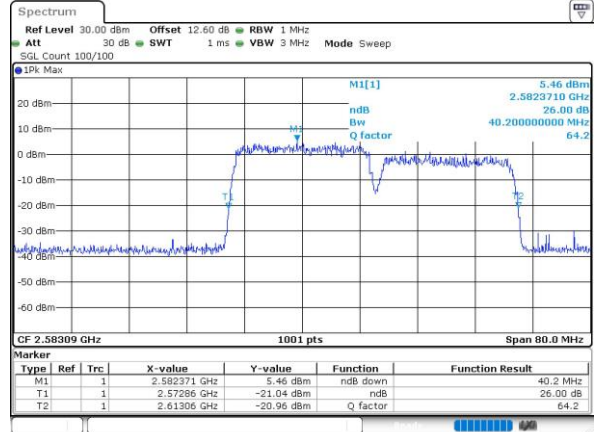
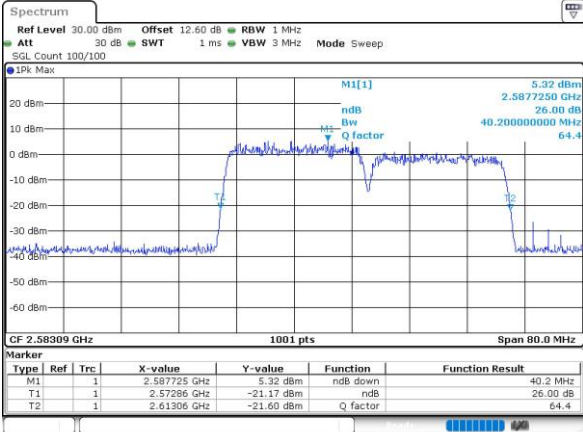
FR1 N41AA / 20MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:57:27

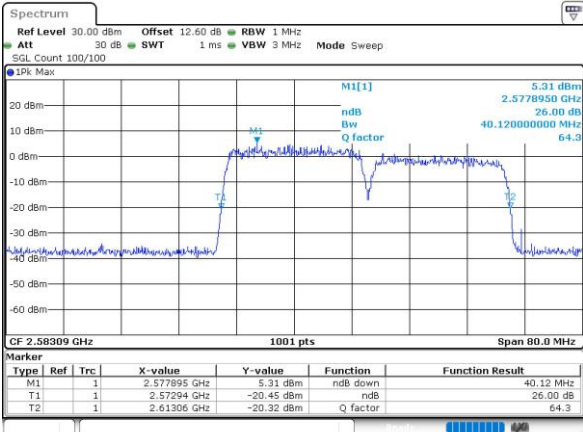
Date: 13 JUN 2023 06:57:14

64QAM

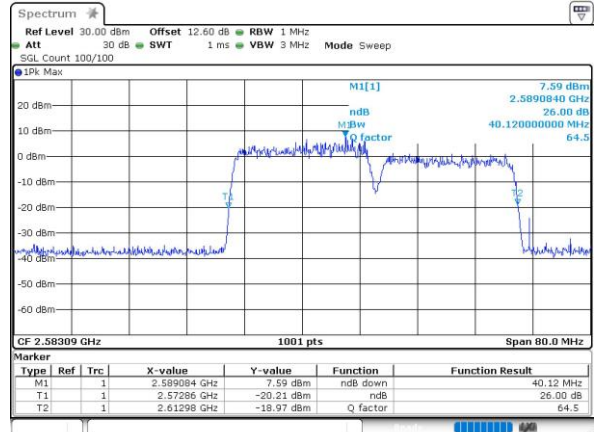
256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:57:01



Date: 13 JUN 2023 06:56:50

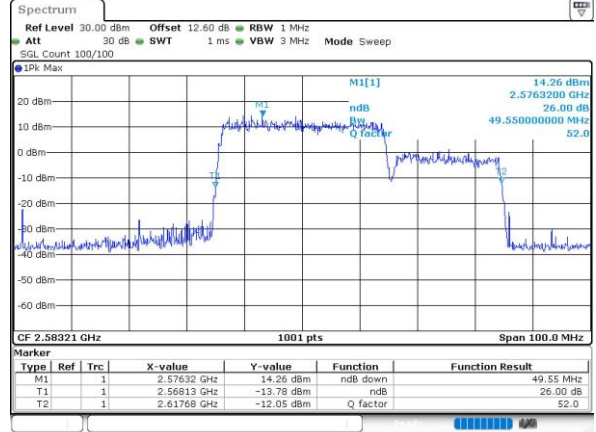
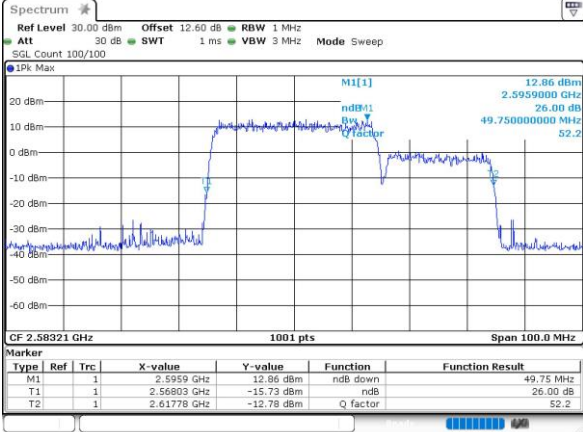
FR1 N41AA / 30MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:53:56

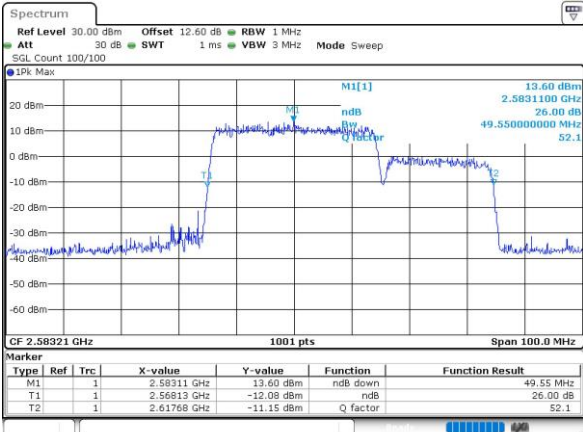
Date: 13 JUN 2023 06:54:11

64QAM

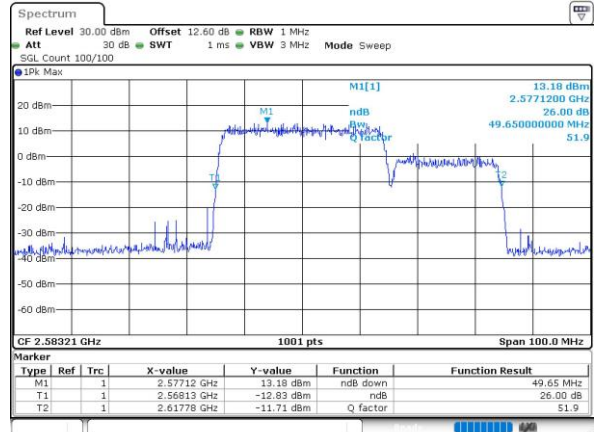
256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:54:51



Date: 13 JUN 2023 06:55:19

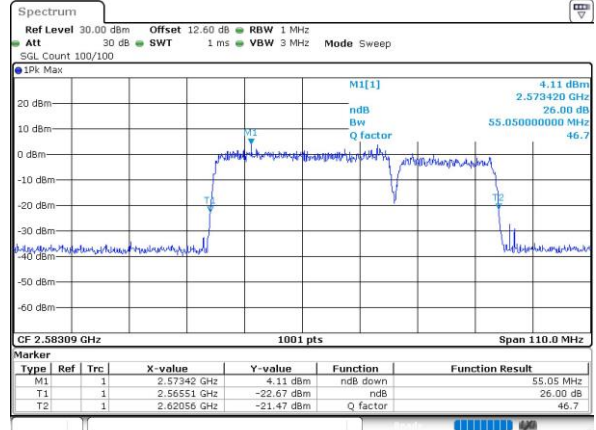
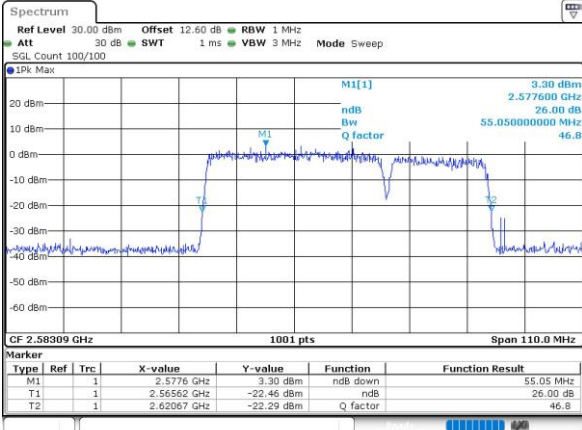
## FR1 N41AA / 35MHz+20MHz / CP-OFDM

### QPSK

### 16QAM

#### Middle Channel

#### Middle Channel



Date: 13 JUN 2023 06:51:53

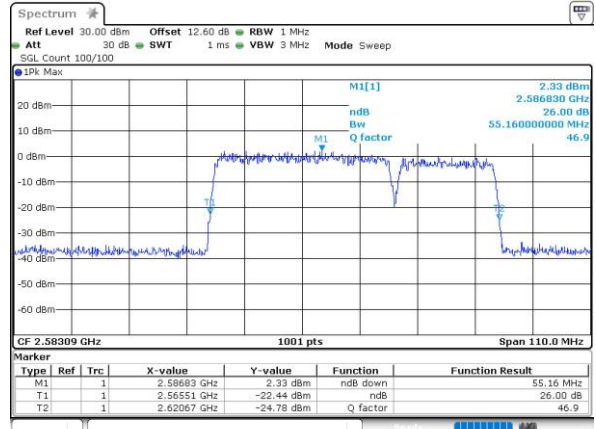
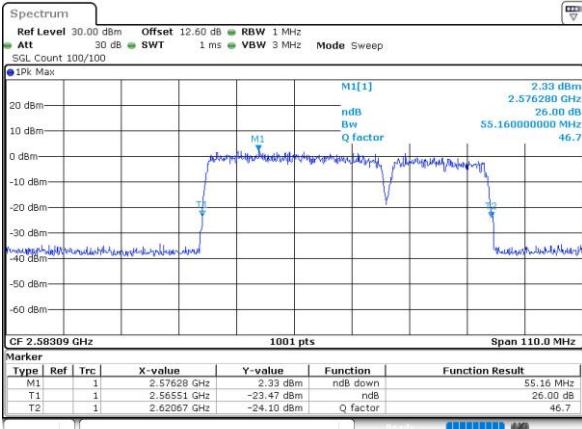
Date: 13 JUN 2023 06:51:56

### 64QAM

### 256QAM

#### Middle Channel

#### Middle Channel



Date: 13 JUN 2023 06:51:26

Date: 13 JUN 2023 06:51:15

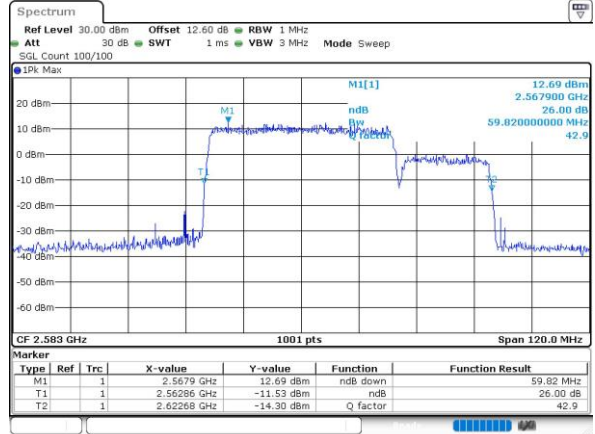
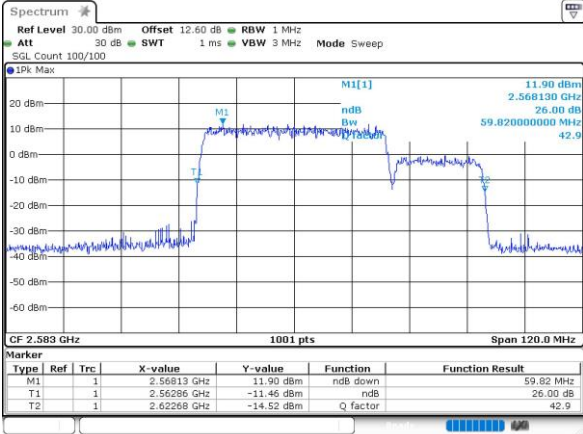
FR1 N41AA / 40MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:48:43

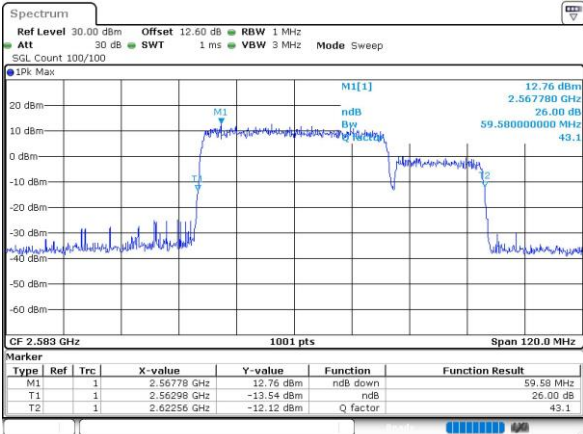
Date: 13 JUN 2023 06:49:11

64QAM

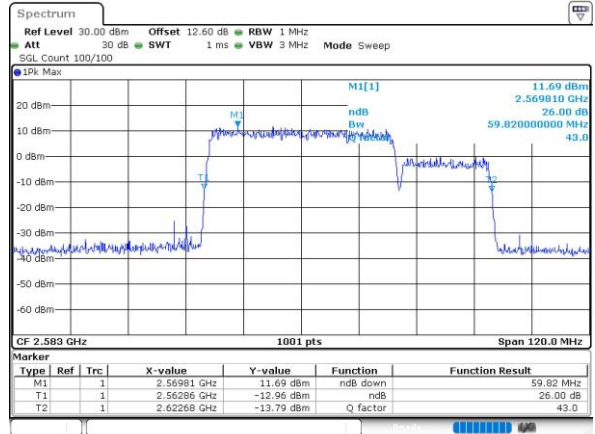
256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:49:22



Date: 13 JUN 2023 06:49:38

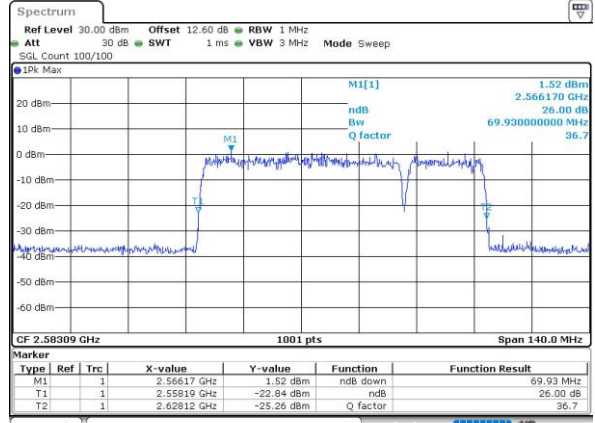
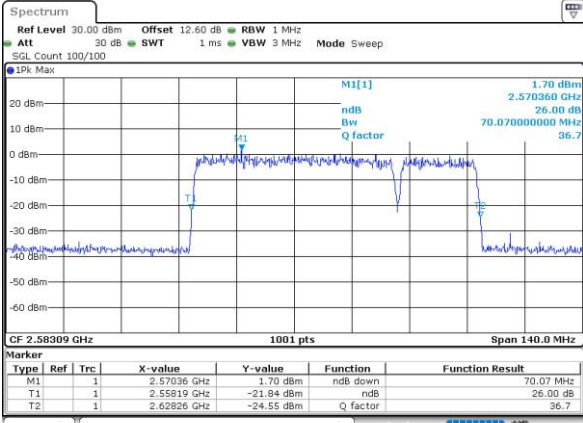
FR1 N41AA / 50MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:45:49

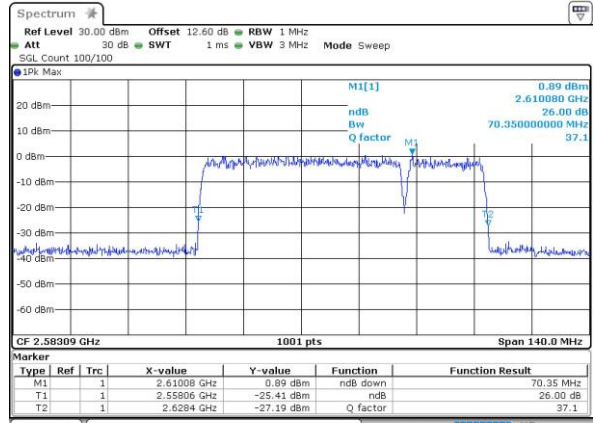
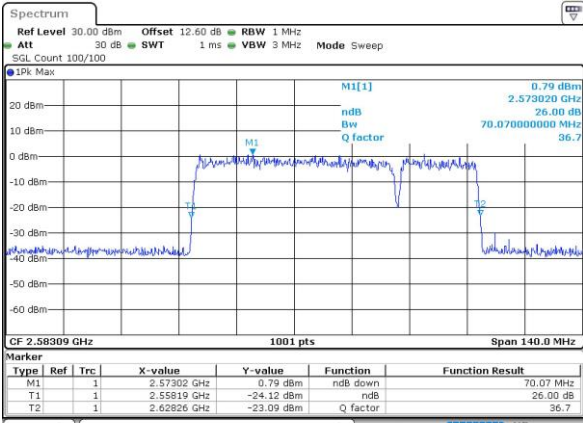
Date: 13 JUN 2023 06:45:36

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:45:21

Date: 13 JUN 2023 06:45:10

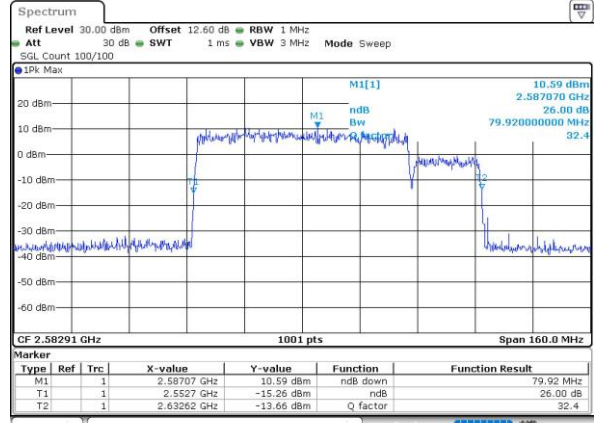
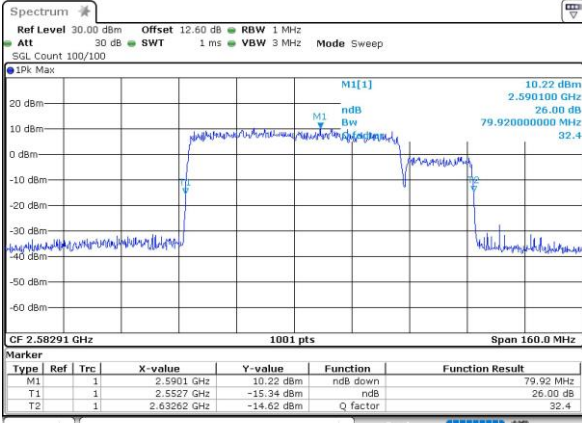
FR1 N41AA / 60MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:42:27

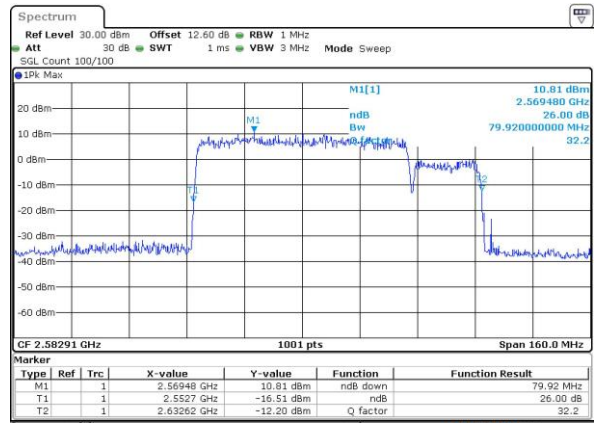
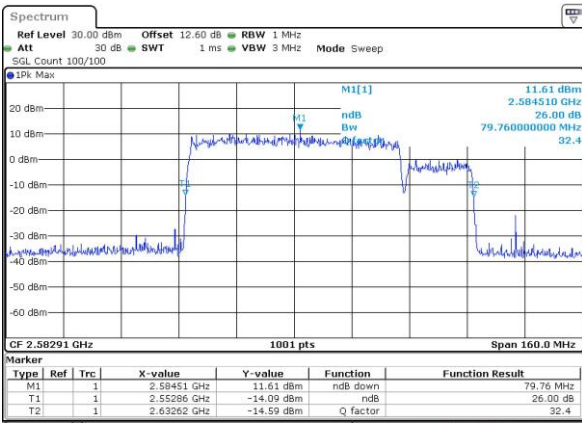
Date: 13 JUN 2023 06:42:41

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:42:51

Date: 13 JUN 2023 06:43:05

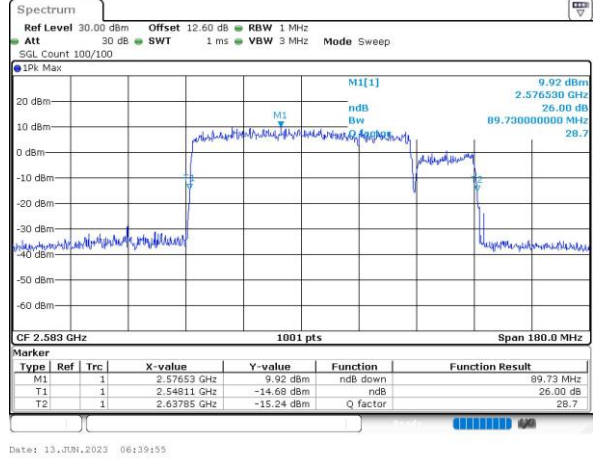
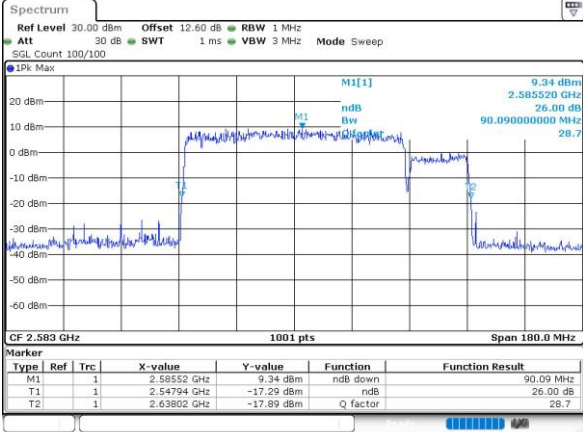
FR1 N41AA / 70MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

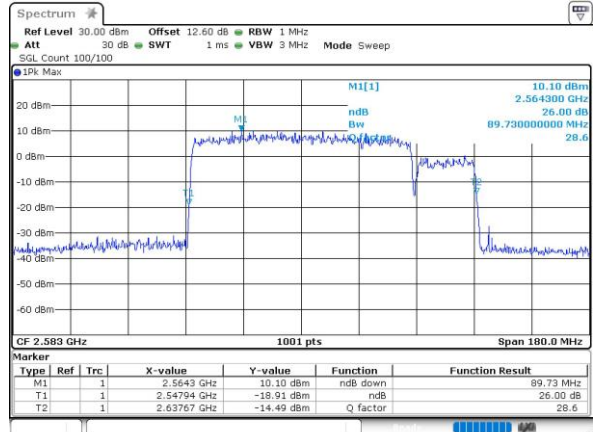
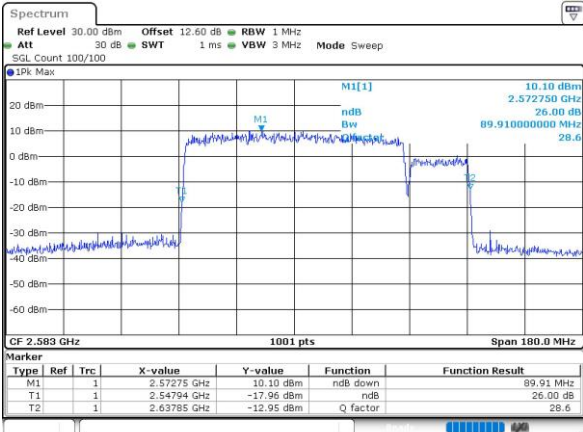


64QAM

256QAM

Middle Channel

Middle Channel





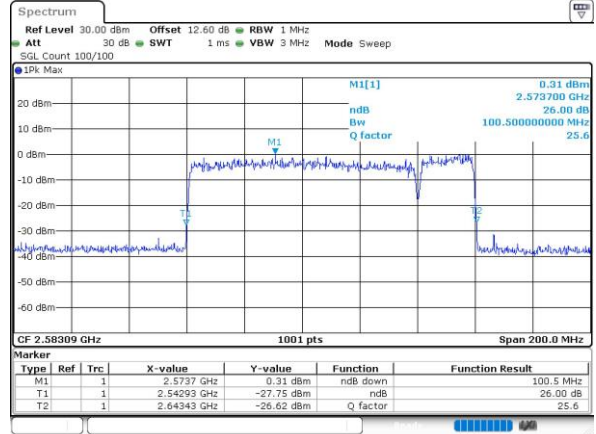
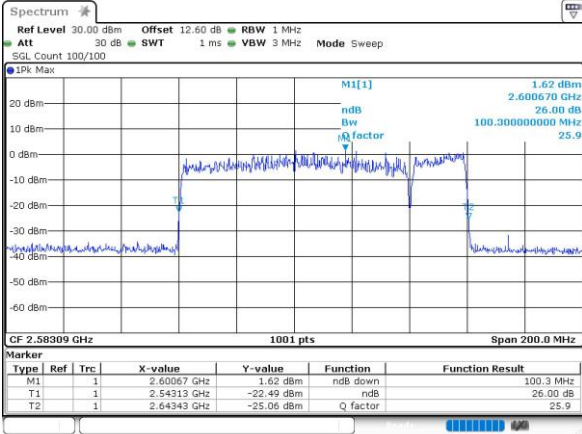
FR1 N41AA / 80MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:37:30

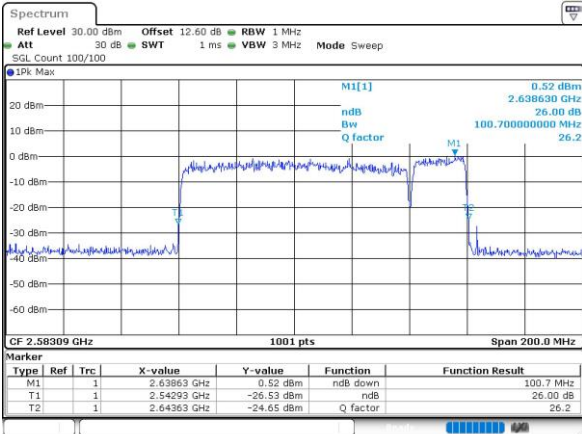
Date: 13 JUN 2023 06:37:46

64QAM

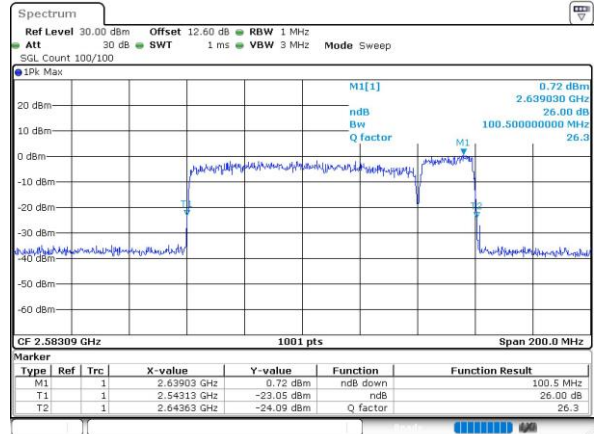
256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:37:56



Date: 13 JUN 2023 06:38:07

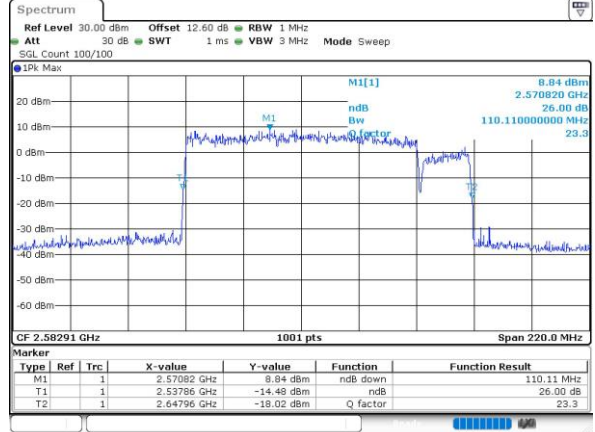
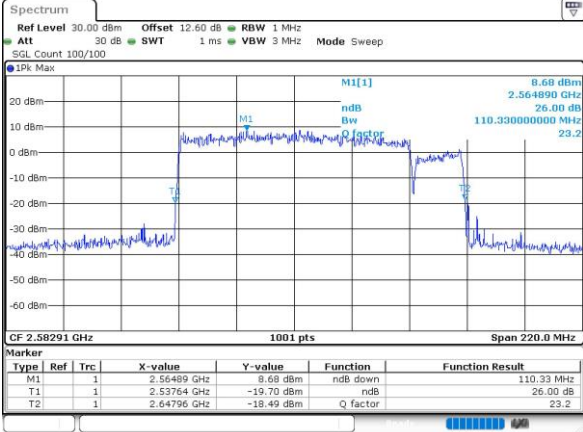
FR1 N41AA / 90MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:35:58

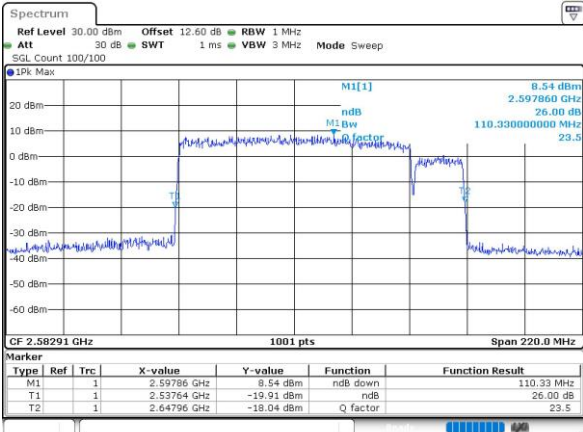
Date: 13 JUN 2023 06:35:43

64QAM

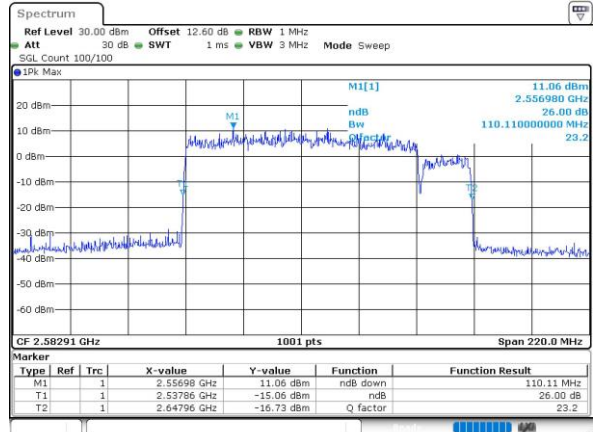
256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:35:13



Date: 13 JUN 2023 06:35:20

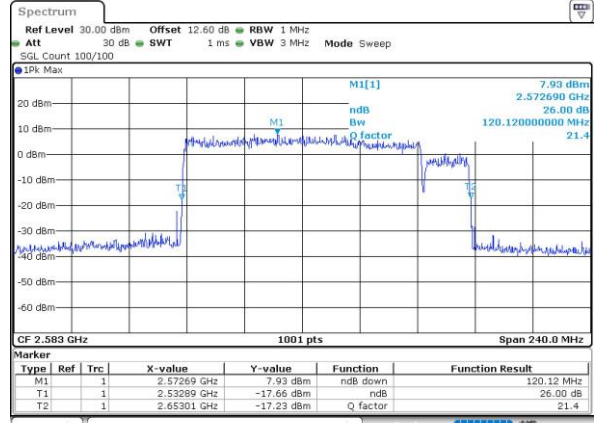
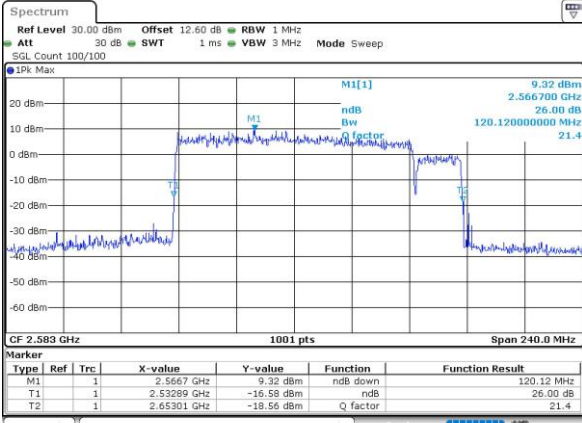
FR1 N41AA / 100MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:29:07

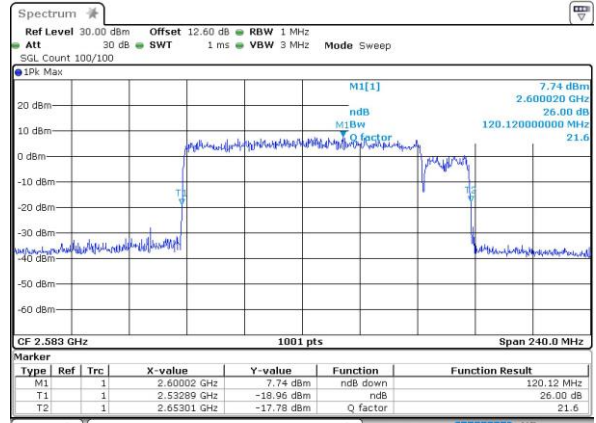
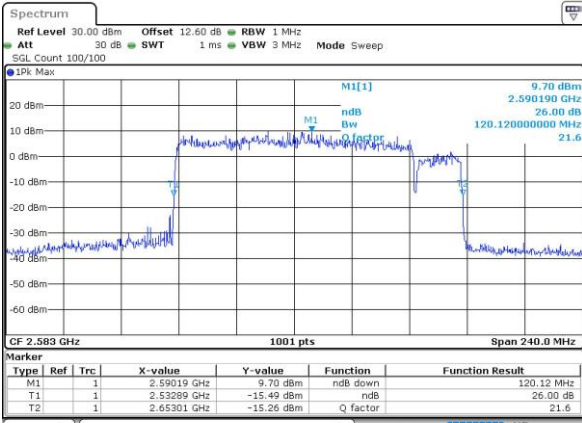
Date: 13 JUN 2023 06:28:39

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 06:27:27

Date: 13 JUN 2023 06:27:12

## Occupied Bandwidth

Mode	FR1 N41AA : OB BW(MHz) / CP-OFDM			
<b>BW</b>	<b>10M+20M</b>	<b>10M+20M</b>	<b>10M+20M</b>	<b>10M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	25.95	25.47	25.89	26.25
<b>BW</b>	<b>15M+20M</b>	<b>15M+20M</b>	<b>15M+20M</b>	<b>15M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	30.49	30.91	30.42	30.91
<b>BW</b>	<b>20M+20M</b>	<b>20M+20M</b>	<b>20M+20M</b>	<b>20M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	37.88	37.88	37.96	37.96
<b>BW</b>	<b>30M+20M</b>	<b>30M+20M</b>	<b>30M+20M</b>	<b>30M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	45.15	44.96	45.35	45.25
<b>BW</b>	<b>35M+20M</b>	<b>35M+20M</b>	<b>35M+20M</b>	<b>35M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	52.53	52.53	52.64	52.75
<b>BW</b>	<b>40M+20M</b>	<b>40M+20M</b>	<b>40M+20M</b>	<b>40M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	54.55	54.55	54.19	54.79
<b>BW</b>	<b>50M+20M</b>	<b>50M+20M</b>	<b>50M+20M</b>	<b>50M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	67.55	67.13	67.27	67.27
<b>BW</b>	<b>60M+20M</b>	<b>60M+20M</b>	<b>60M+20M</b>	<b>60M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	74.81	75.12	74.97	75.60
<b>BW</b>	<b>70M+20M</b>	<b>70M+20M</b>	<b>70M+20M</b>	<b>70M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	85.23	85.05	85.23	85.23
<b>BW</b>	<b>80M+20M</b>	<b>80M+20M</b>	<b>80M+20M</b>	<b>80M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	94.51	97.30	94.71	94.51
<b>BW</b>	<b>90M+20M</b>	<b>90M+20M</b>	<b>90M+20M</b>	<b>90M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	106.37	105.93	105.71	105.49
<b>BW</b>	<b>100M+20M</b>	<b>100M+20M</b>	<b>100M+20M</b>	<b>100M+20M</b>
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>	<b>64QAM</b>	<b>256QAM</b>
<b>Middle CH</b>	115.80	114.85	114.85	114.61

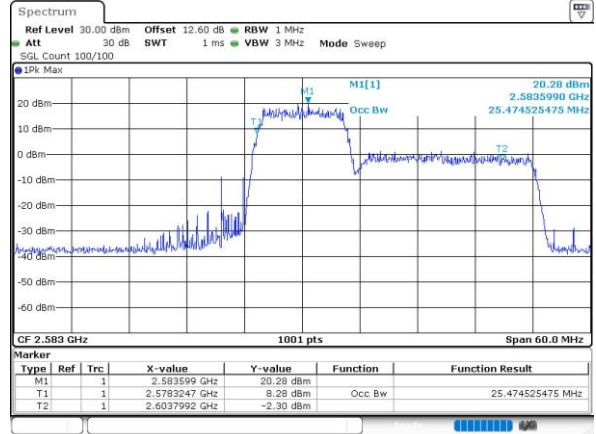
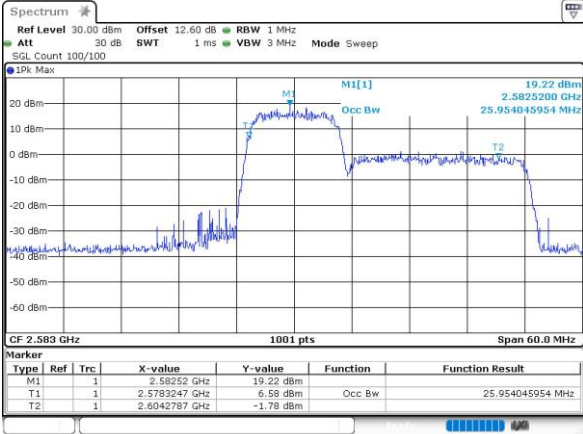
FR1 N41AA / 10MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:35:42

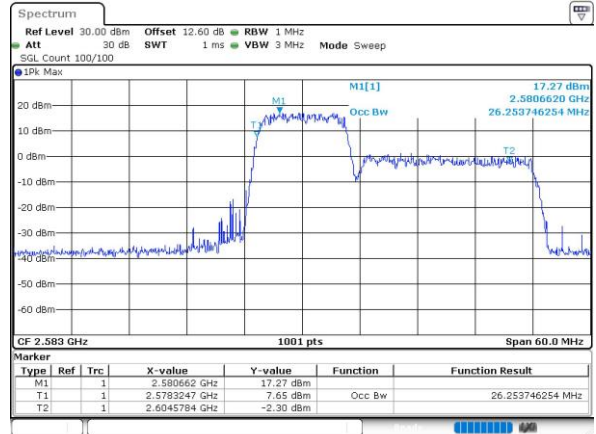
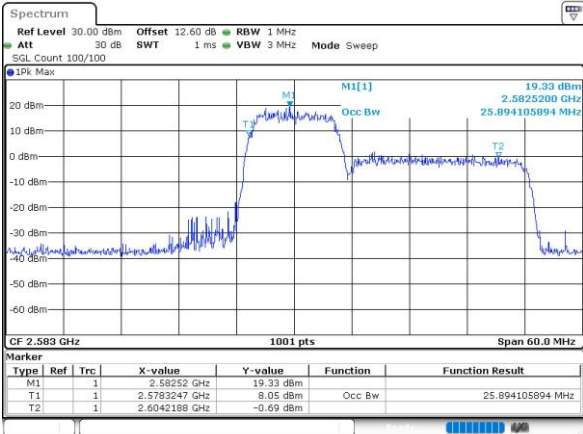
Date: 13 JUN 2023 03:35:56

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:36:07

Date: 13 JUN 2023 03:36:16

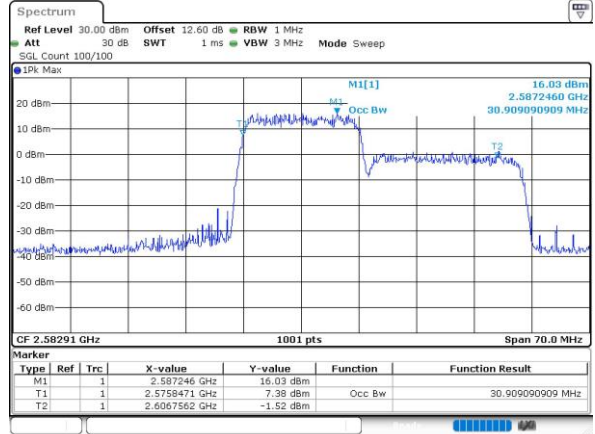
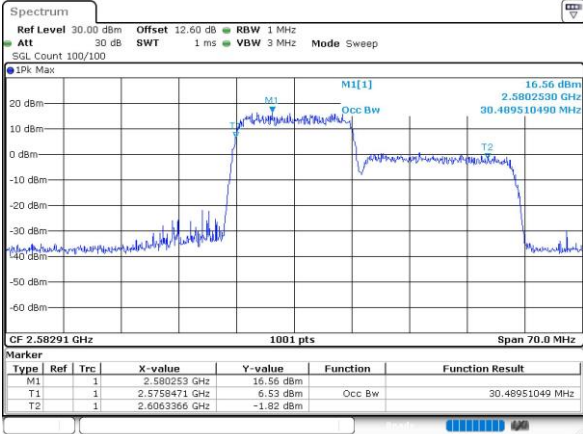
FR1 N41AA / 15MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:39:48

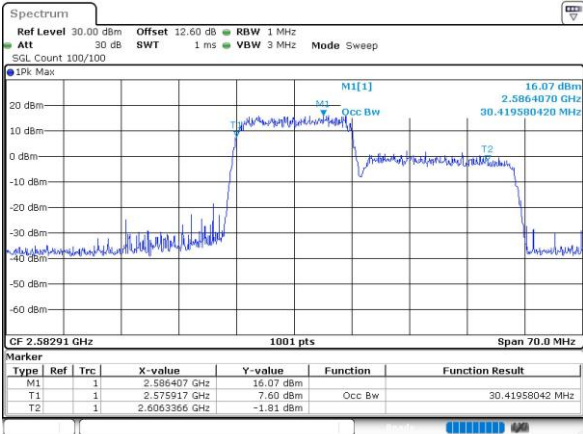
Date: 13 JUN 2023 03:39:35

64QAM

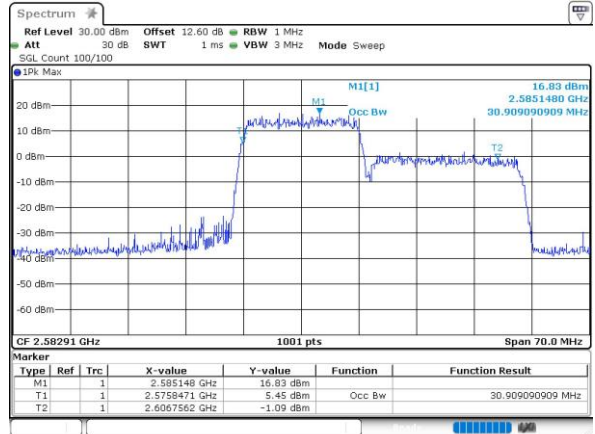
256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:39:25



Date: 13 JUN 2023 03:39:12

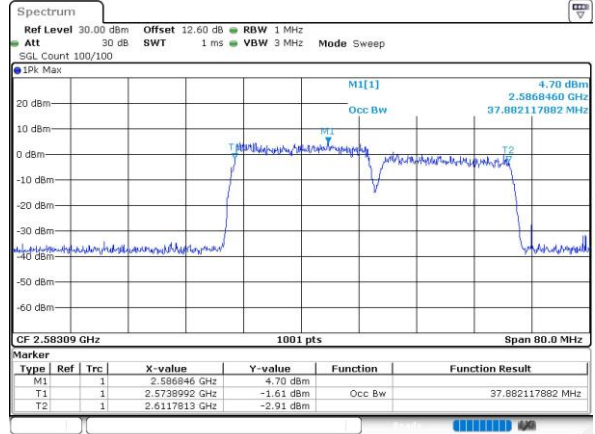
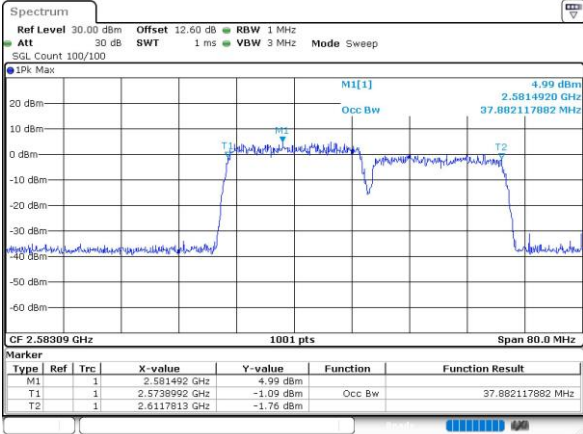
FR1 N41AA / 20MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:46:18

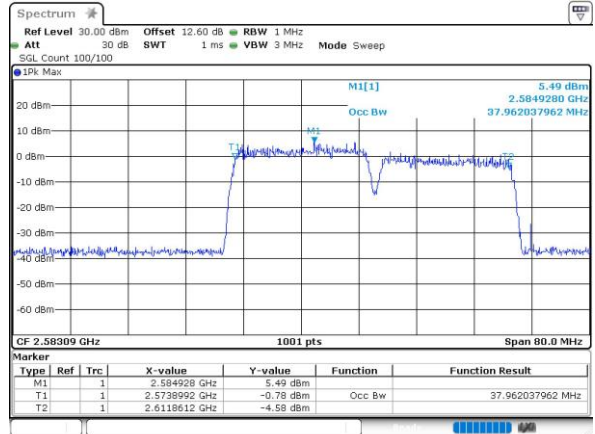
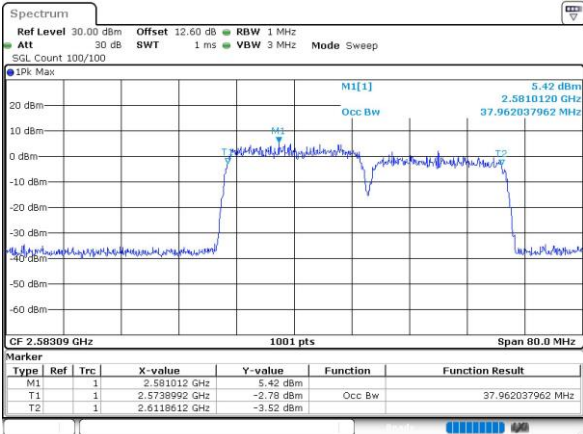
Date: 13 JUN 2023 03:46:06

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:45:53

Date: 13 JUN 2023 03:45:43

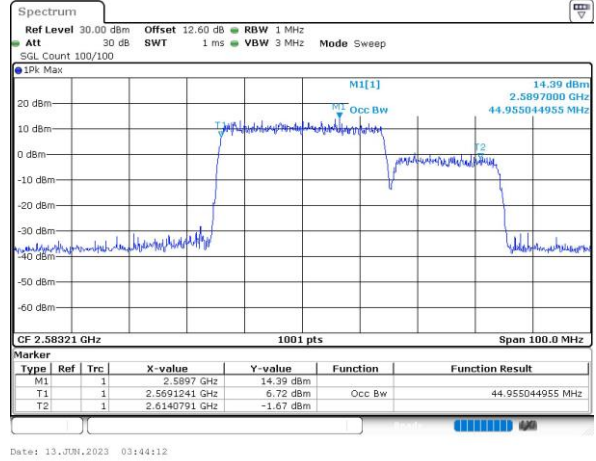
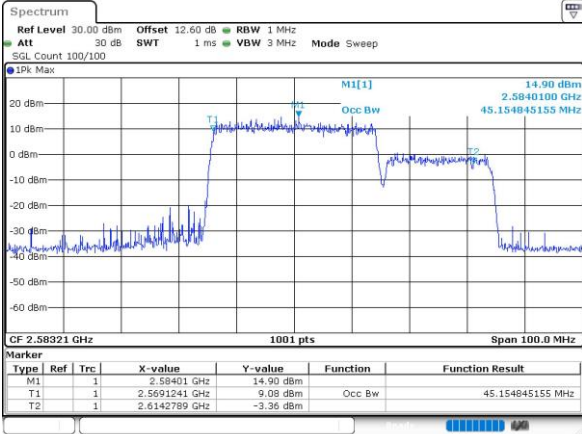
## FR1 N41AA / 30MHz+20MHz / CP-OFDM

### QPSK

### 16QAM

#### Middle Channel

#### Middle Channel

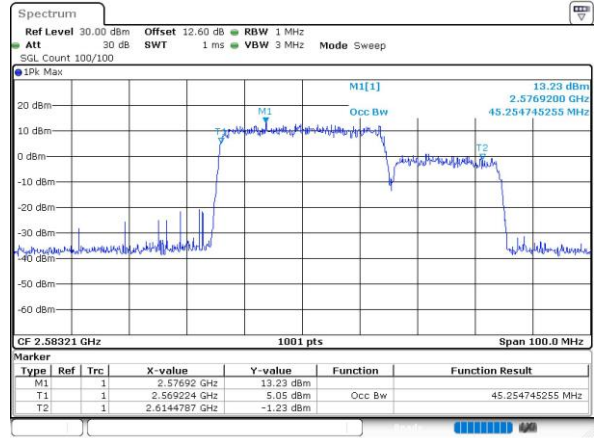
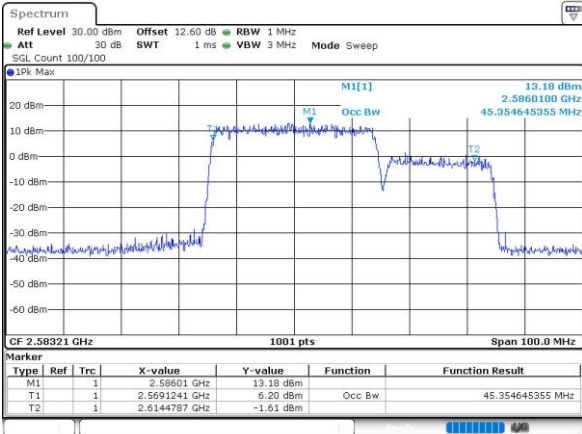


### 64QAM

### 256QAM

#### Middle Channel

#### Middle Channel





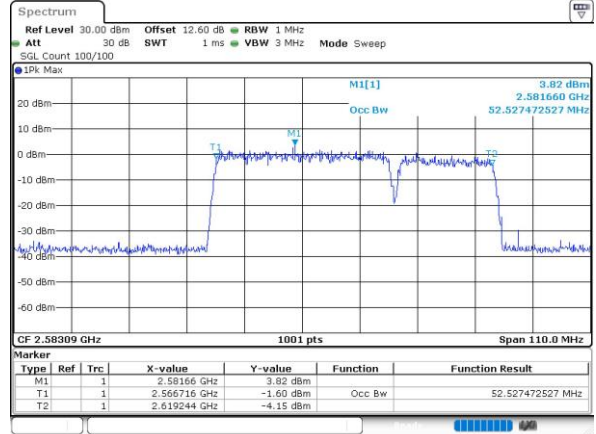
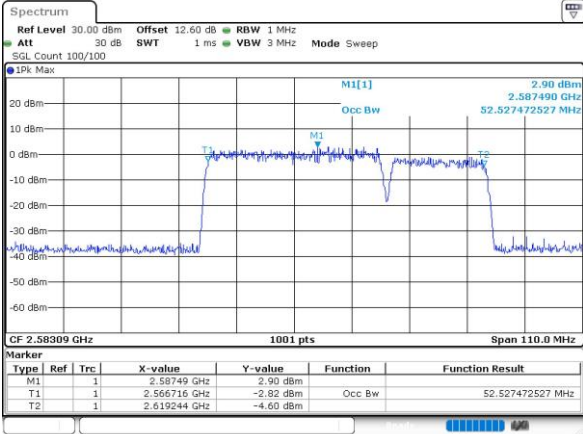
FR1 N41AA / 35MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:48:00

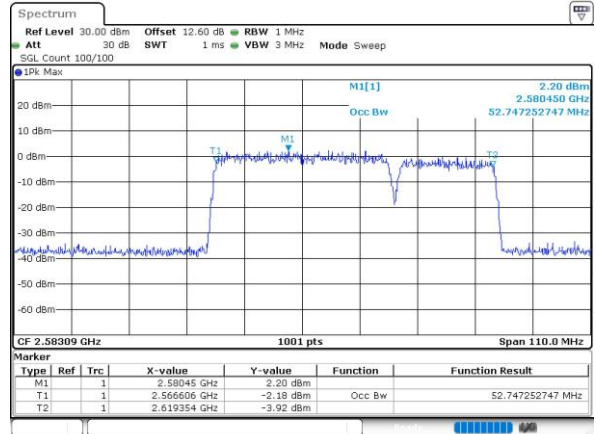
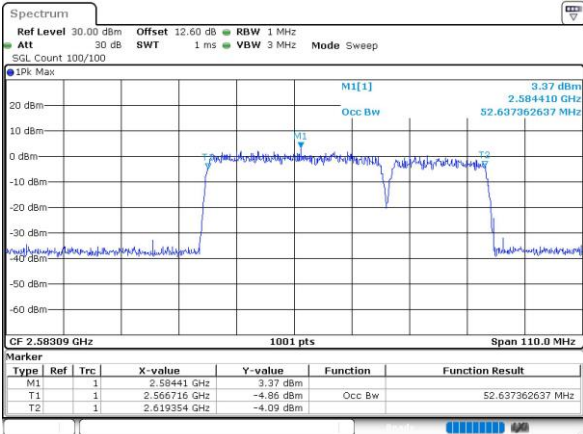
Date: 13 JUN 2023 03:48:13

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:48:25

Date: 13 JUN 2023 03:48:35

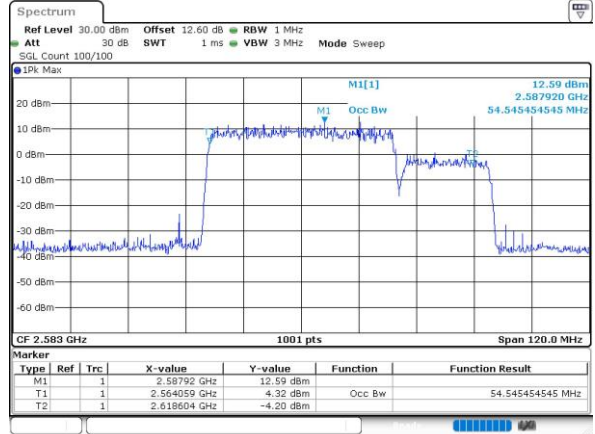
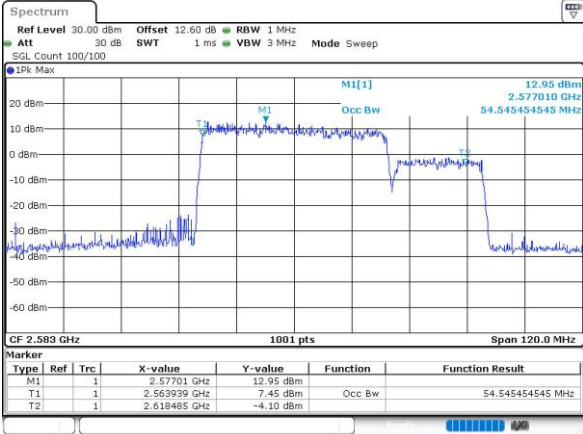
FR1 N41AA / 40MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:52:14

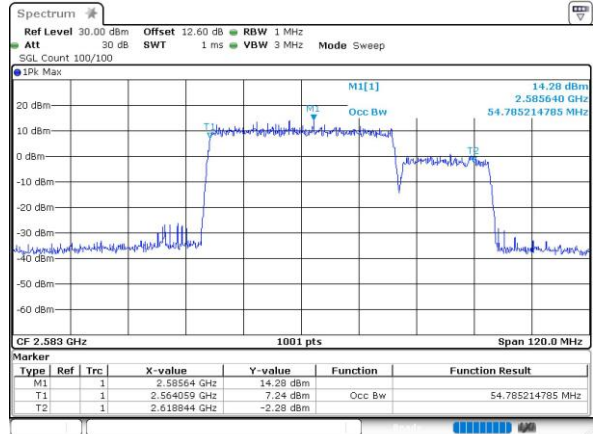
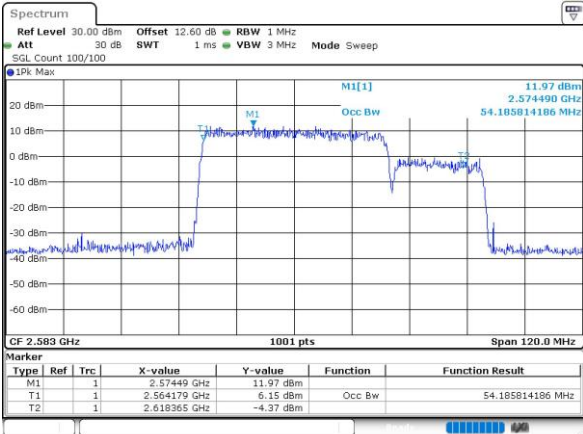
Date: 13 JUN 2023 03:51:42

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 03:51:20

Date: 13 JUN 2023 03:51:02

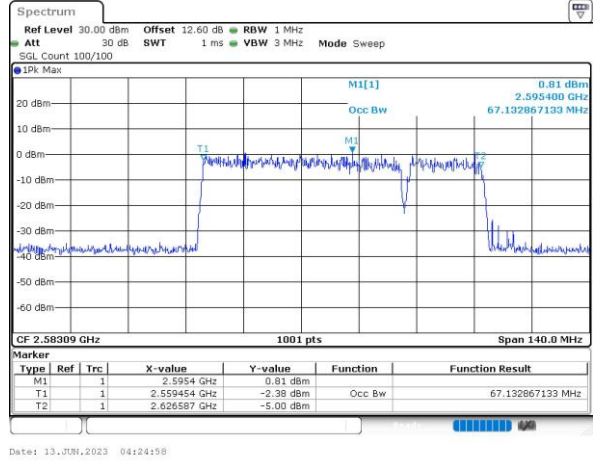
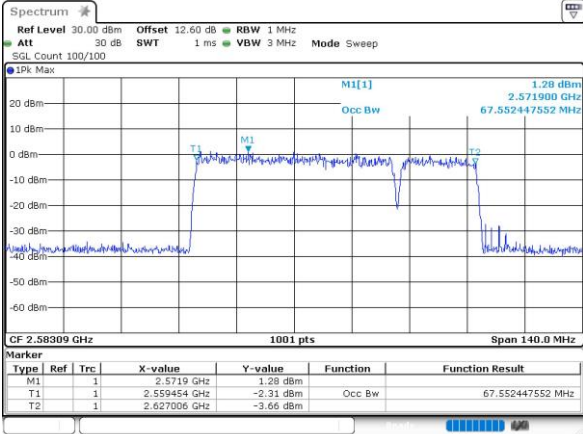
## FR1 N41AA / 50MHz+20MHz / CP-OFDM

### QPSK

### 16QAM

#### Middle Channel

#### Middle Channel

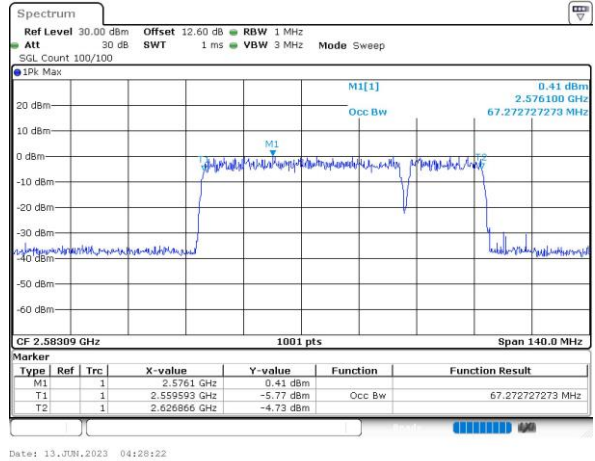
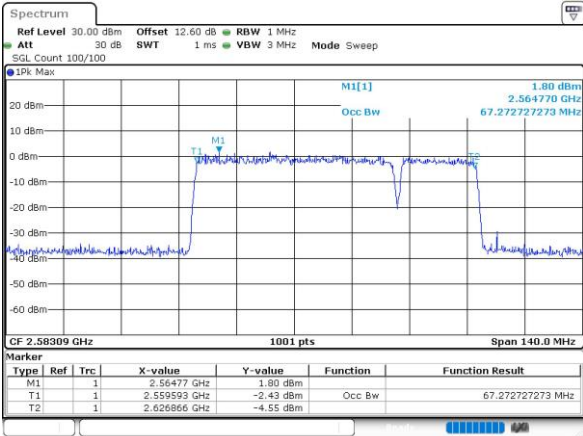


### 64QAM

### 256QAM

#### Middle Channel

#### Middle Channel



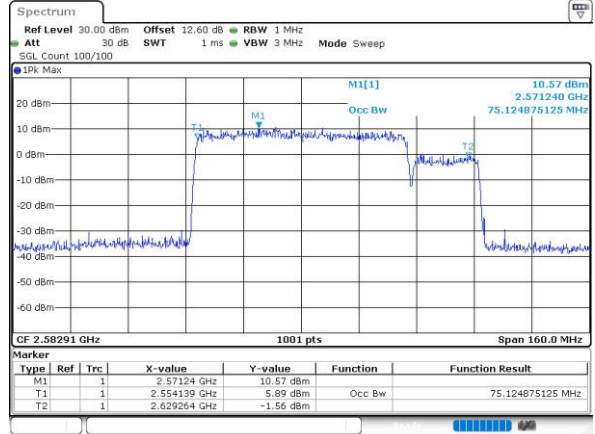
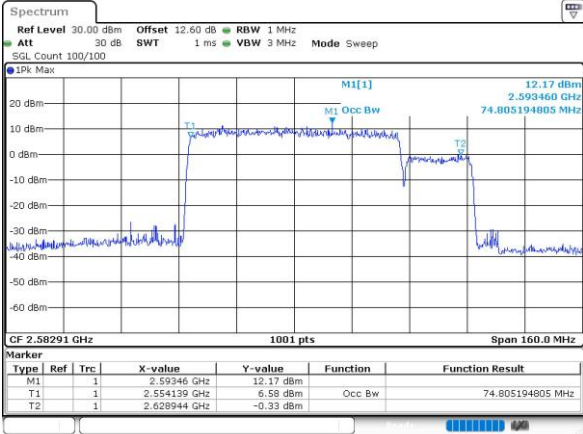
FR1 N41AA / 60MHz+20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 04:34:36

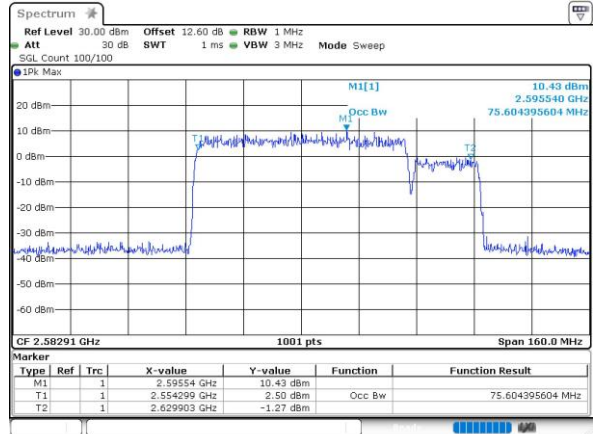
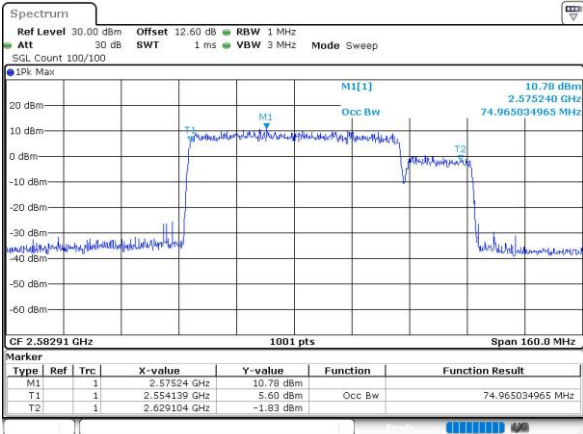
Date: 13 JUN 2023 04:32:06

64QAM

256QAM

Middle Channel

Middle Channel



Date: 13 JUN 2023 04:29:55

Date: 13 JUN 2023 04:29:43

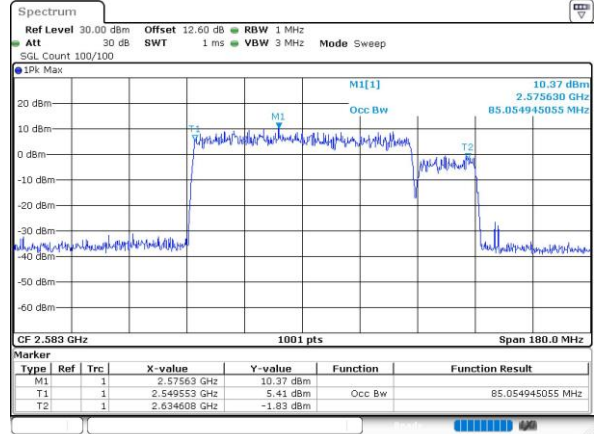
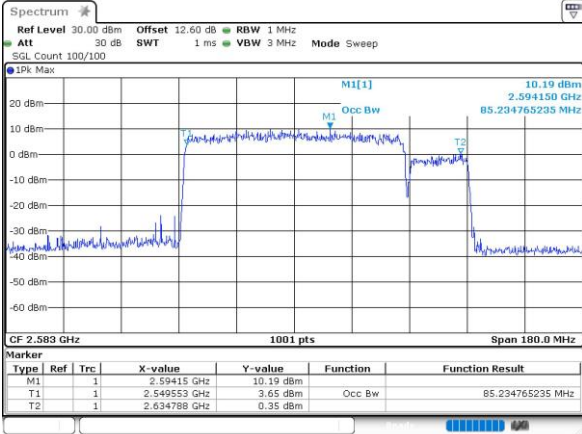
## FR1 N41AA / 70MHz+20MHz / CP-OFDM

### QPSK

### 16QAM

#### Middle Channel

#### Middle Channel



Date: 13 JUN 2023 06:01:08

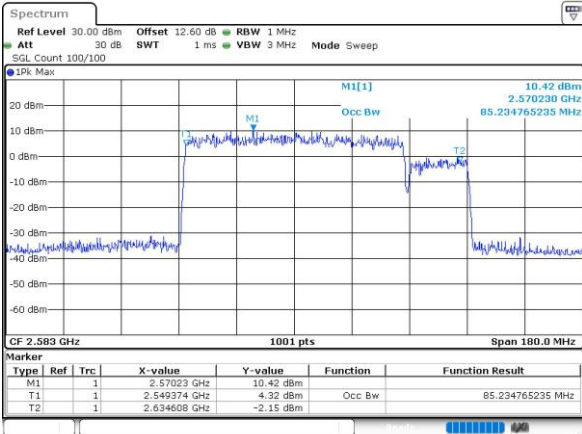
Date: 13 JUN 2023 06:05:06

### 64QAM

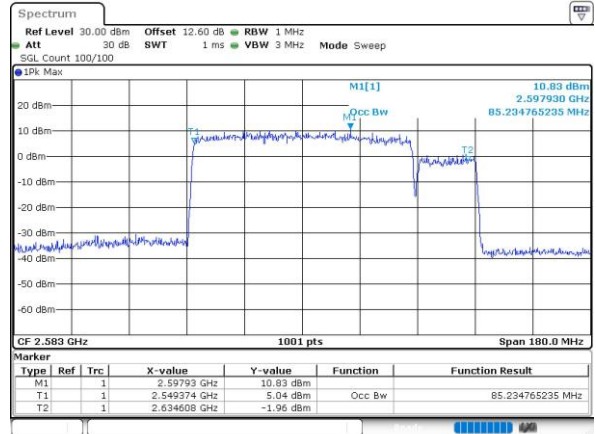
### 256QAM

#### Middle Channel

#### Middle Channel



Date: 13 JUN 2023 06:05:20



Date: 13 JUN 2023 06:05:31

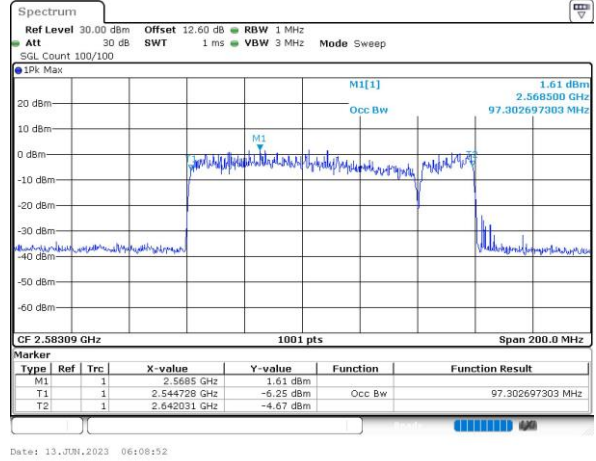
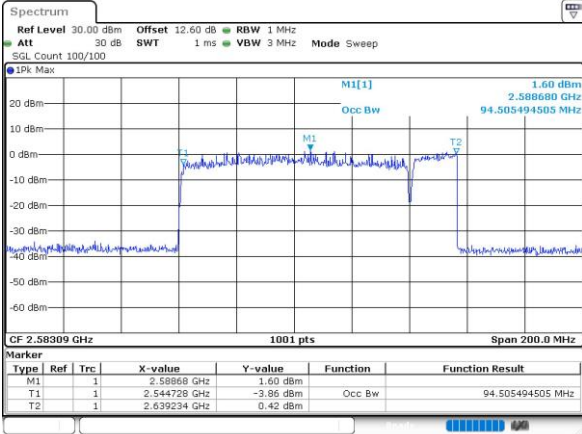
## FR1 N41AA / 80MHz+20MHz / CP-OFDM

### QPSK

### 16QAM

#### Middle Channel

#### Middle Channel



### 64QAM

### 256QAM

#### Middle Channel

#### Middle Channel

