

Appendix E : Test Result - n13

1. Conducted Output Power

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	GT - Lc (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
n13	15	5	155900	25@0	DFT_BPSK	22.15	-6.15	16.00	39.81	3000	PASS
n13	15	5	155900	12@6	DFT_BPSK	22.63	-6.15	16.48	44.46	3000	PASS
n13	15	5	155900	1@1	DFT_BPSK	22.54	-6.15	16.39	43.55	3000	PASS
n13	15	5	155900	1@23	DFT_BPSK	22.60	-6.15	16.45	44.16	3000	PASS
n13	15	5	155900	25@0	DFT_QPSK	21.63	-6.15	15.48	35.32	3000	PASS
n13	15	5	155900	12@6	DFT_QPSK	22.69	-6.15	16.54	45.08	3000	PASS
n13	15	5	155900	1@1	DFT_QPSK	22.49	-6.15	16.34	43.05	3000	PASS
n13	15	5	155900	1@23	DFT_QPSK	22.62	-6.15	16.47	44.36	3000	PASS
n13	15	5	155900	25@0	DFT_16QAM	20.62	-6.15	14.47	27.99	3000	PASS
n13	15	5	155900	12@6	DFT_16QAM	21.64	-6.15	15.49	35.40	3000	PASS
n13	15	5	155900	1@1	DFT_16QAM	21.61	-6.15	15.46	35.16	3000	PASS
n13	15	5	155900	1@23	DFT_16QAM	21.72	-6.15	15.57	36.06	3000	PASS
n13	15	5	155900	25@0	DFT_64QAM	20.19	-6.15	14.04	25.35	3000	PASS
n13	15	5	155900	12@6	DFT_64QAM	20.13	-6.15	13.98	25.00	3000	PASS
n13	15	5	155900	1@1	DFT_64QAM	20.13	-6.15	13.98	25.00	3000	PASS
n13	15	5	155900	1@23	DFT_64QAM	20.24	-6.15	14.09	25.64	3000	PASS
n13	15	5	155900	25@0	DFT_256QAM	18.12	-6.15	11.97	15.74	3000	PASS
n13	15	5	155900	12@6	DFT_256QAM	18.13	-6.15	11.98	15.78	3000	PASS
n13	15	5	155900	1@1	DFT_256QAM	17.97	-6.15	11.82	15.21	3000	PASS
n13	15	5	155900	1@23	DFT_256QAM	18.09	-6.15	11.94	15.63	3000	PASS
n13	15	5	155900	25@0	CP_QPSK	19.66	-6.15	13.51	22.44	3000	PASS
n13	15	5	155900	13@6	CP_QPSK	21.09	-6.15	14.94	31.19	3000	PASS
n13	15	5	155900	1@1	CP_QPSK	20.97	-6.15	14.82	30.34	3000	PASS
n13	15	5	155900	1@23	CP_QPSK	21.08	-6.15	14.93	31.12	3000	PASS
n13	15	5	155900	25@0	CP_16QAM	19.70	-6.15	13.55	22.65	3000	PASS
n13	15	5	155900	13@6	CP_16QAM	20.68	-6.15	14.53	28.38	3000	PASS
n13	15	5	155900	1@1	CP_16QAM	20.73	-6.15	14.58	28.71	3000	PASS
n13	15	5	155900	1@23	CP_16QAM	20.89	-6.15	14.74	29.79	3000	PASS
n13	15	5	155900	25@0	CP_64QAM	19.11	-6.15	12.96	19.77	3000	PASS
n13	15	5	155900	13@6	CP_64QAM	19.09	-6.15	12.94	19.68	3000	PASS
n13	15	5	155900	1@1	CP_64QAM	18.91	-6.15	12.76	18.88	3000	PASS
n13	15	5	155900	1@23	CP_64QAM	19.08	-6.15	12.93	19.63	3000	PASS
n13	15	5	155900	25@0	CP_256QAM	16.15	-6.15	10.00	10.00	3000	PASS
n13	15	5	155900	13@6	CP_256QAM	16.15	-6.15	10.00	10.00	3000	PASS

n13	15	5	155900	1@1	CP_256QAM	16.11	-6.15	9.96	9.91	3000	PASS
n13	15	5	155900	1@23	CP_256QAM	16.29	-6.15	10.14	10.33	3000	PASS
n13	15	5	156400	25@0	DFT_BPSK	22.21	-6.15	16.06	40.36	3000	PASS
n13	15	5	156400	12@6	DFT_BPSK	22.68	-6.15	16.53	44.98	3000	PASS
n13	15	5	156400	1@1	DFT_BPSK	22.57	-6.15	16.42	43.85	3000	PASS
n13	15	5	156400	1@23	DFT_BPSK	22.61	-6.15	16.46	44.26	3000	PASS
n13	15	5	156400	25@0	DFT_QPSK	21.73	-6.15	15.58	36.14	3000	PASS
n13	15	5	156400	12@6	DFT_QPSK	22.70	-6.15	16.55	45.19	3000	PASS
n13	15	5	156400	1@1	DFT_QPSK	22.59	-6.15	16.44	44.06	3000	PASS
n13	15	5	156400	1@23	DFT_QPSK	22.61	-6.15	16.46	44.26	3000	PASS
n13	15	5	156400	25@0	DFT_16QAM	20.66	-6.15	14.51	28.25	3000	PASS
n13	15	5	156400	12@6	DFT_16QAM	21.67	-6.15	15.52	35.65	3000	PASS
n13	15	5	156400	1@1	DFT_16QAM	21.72	-6.15	15.57	36.06	3000	PASS
n13	15	5	156400	1@23	DFT_16QAM	21.71	-6.15	15.56	35.97	3000	PASS
n13	15	5	156400	25@0	DFT_64QAM	20.20	-6.15	14.05	25.41	3000	PASS
n13	15	5	156400	12@6	DFT_64QAM	20.19	-6.15	14.04	25.35	3000	PASS
n13	15	5	156400	1@1	DFT_64QAM	20.25	-6.15	14.10	25.70	3000	PASS
n13	15	5	156400	1@23	DFT_64QAM	20.19	-6.15	14.04	25.35	3000	PASS
n13	15	5	156400	25@0	DFT_256QAM	18.12	-6.15	11.97	15.74	3000	PASS
n13	15	5	156400	12@6	DFT_256QAM	18.15	-6.15	12.00	15.85	3000	PASS
n13	15	5	156400	1@1	DFT_256QAM	18.06	-6.15	11.91	15.52	3000	PASS
n13	15	5	156400	1@23	DFT_256QAM	18.08	-6.15	11.93	15.60	3000	PASS
n13	15	5	156400	25@0	CP_QPSK	19.68	-6.15	13.53	22.54	3000	PASS
n13	15	5	156400	13@6	CP_QPSK	21.13	-6.15	14.98	31.48	3000	PASS
n13	15	5	156400	1@1	CP_QPSK	21.06	-6.15	14.91	30.97	3000	PASS
n13	15	5	156400	1@23	CP_QPSK	21.10	-6.15	14.95	31.26	3000	PASS
n13	15	5	156400	25@0	CP_16QAM	19.77	-6.15	13.62	23.01	3000	PASS
n13	15	5	156400	13@6	CP_16QAM	20.69	-6.15	14.54	28.44	3000	PASS
n13	15	5	156400	1@1	CP_16QAM	20.84	-6.15	14.69	29.44	3000	PASS
n13	15	5	156400	1@23	CP_16QAM	20.89	-6.15	14.74	29.79	3000	PASS
n13	15	5	156400	25@0	CP_64QAM	19.20	-6.15	13.05	20.18	3000	PASS
n13	15	5	156400	13@6	CP_64QAM	19.15	-6.15	13.00	19.95	3000	PASS
n13	15	5	156400	1@1	CP_64QAM	19.07	-6.15	12.92	19.59	3000	PASS
n13	15	5	156400	1@23	CP_64QAM	19.06	-6.15	12.91	19.54	3000	PASS
n13	15	5	156400	25@0	CP_256QAM	16.22	-6.15	10.07	10.16	3000	PASS
n13	15	5	156400	13@6	CP_256QAM	16.23	-6.15	10.08	10.19	3000	PASS
n13	15	5	156400	1@1	CP_256QAM	16.17	-6.15	10.02	10.05	3000	PASS
n13	15	5	156400	1@23	CP_256QAM	16.26	-6.15	10.11	10.26	3000	PASS
n13	15	5	156900	25@0	DFT_BPSK	22.19	-6.15	16.04	40.18	3000	PASS
n13	15	5	156900	12@6	DFT_BPSK	22.68	-6.15	16.53	44.98	3000	PASS
n13	15	5	156900	1@1	DFT_BPSK	22.61	-6.15	16.46	44.26	3000	PASS
n13	15	5	156900	1@23	DFT_BPSK	22.61	-6.15	16.46	44.26	3000	PASS
n13	15	5	156900	25@0	DFT_QPSK	21.67	-6.15	15.52	35.65	3000	PASS

n13	15	5	156900	12@6	DFT_QPSK	22.68	-6.15	16.53	44.98	3000	PASS
n13	15	5	156900	1@1	DFT_QPSK	22.59	-6.15	16.44	44.06	3000	PASS
n13	15	5	156900	1@23	DFT_QPSK	22.60	-6.15	16.45	44.16	3000	PASS
n13	15	5	156900	25@0	DFT_16QAM	20.66	-6.15	14.51	28.25	3000	PASS
n13	15	5	156900	12@6	DFT_16QAM	21.65	-6.15	15.50	35.48	3000	PASS
n13	15	5	156900	1@1	DFT_16QAM	21.71	-6.15	15.56	35.97	3000	PASS
n13	15	5	156900	1@23	DFT_16QAM	21.73	-6.15	15.58	36.14	3000	PASS
n13	15	5	156900	25@0	DFT_64QAM	20.19	-6.15	14.04	25.35	3000	PASS
n13	15	5	156900	12@6	DFT_64QAM	20.18	-6.15	14.03	25.29	3000	PASS
n13	15	5	156900	1@1	DFT_64QAM	20.21	-6.15	14.06	25.47	3000	PASS
n13	15	5	156900	1@23	DFT_64QAM	20.25	-6.15	14.10	25.70	3000	PASS
n13	15	5	156900	25@0	DFT_256QAM	18.11	-6.15	11.96	15.70	3000	PASS
n13	15	5	156900	12@6	DFT_256QAM	18.16	-6.15	12.01	15.89	3000	PASS
n13	15	5	156900	1@1	DFT_256QAM	18.02	-6.15	11.87	15.38	3000	PASS
n13	15	5	156900	1@23	DFT_256QAM	18.08	-6.15	11.93	15.60	3000	PASS
n13	15	5	156900	25@0	CP_QPSK	19.67	-6.15	13.52	22.49	3000	PASS
n13	15	5	156900	13@6	CP_QPSK	21.12	-6.15	14.97	31.41	3000	PASS
n13	15	5	156900	1@1	CP_QPSK	21.11	-6.15	14.96	31.33	3000	PASS
n13	15	5	156900	1@23	CP_QPSK	21.10	-6.15	14.95	31.26	3000	PASS
n13	15	5	156900	25@0	CP_16QAM	19.77	-6.15	13.62	23.01	3000	PASS
n13	15	5	156900	13@6	CP_16QAM	20.70	-6.15	14.55	28.51	3000	PASS
n13	15	5	156900	1@1	CP_16QAM	20.85	-6.15	14.70	29.51	3000	PASS
n13	15	5	156900	1@23	CP_16QAM	20.90	-6.15	14.75	29.85	3000	PASS
n13	15	5	156900	25@0	CP_64QAM	19.19	-6.15	13.04	20.14	3000	PASS
n13	15	5	156900	13@6	CP_64QAM	19.12	-6.15	12.97	19.82	3000	PASS
n13	15	5	156900	1@1	CP_64QAM	19.06	-6.15	12.91	19.54	3000	PASS
n13	15	5	156900	1@23	CP_64QAM	19.10	-6.15	12.95	19.72	3000	PASS
n13	15	5	156900	25@0	CP_256QAM	16.21	-6.15	10.06	10.14	3000	PASS
n13	15	5	156900	13@6	CP_256QAM	16.21	-6.15	10.06	10.14	3000	PASS
n13	15	5	156900	1@1	CP_256QAM	16.27	-6.15	10.12	10.28	3000	PASS
n13	15	5	156900	1@23	CP_256QAM	16.25	-6.15	10.10	10.23	3000	PASS
n13	15	10	156400	50@0	DFT_BPSK	22.14	-6.15	15.99	39.72	3000	PASS
n13	15	10	156400	25@12	DFT_BPSK	22.65	-6.15	16.50	44.67	3000	PASS
n13	15	10	156400	1@1	DFT_BPSK	22.53	-6.15	16.38	43.45	3000	PASS
n13	15	10	156400	1@50	DFT_BPSK	22.64	-6.15	16.49	44.57	3000	PASS
n13	15	10	156400	50@0	DFT_QPSK	21.61	-6.15	15.46	35.16	3000	PASS
n13	15	10	156400	25@12	DFT_QPSK	22.64	-6.15	16.49	44.57	3000	PASS
n13	15	10	156400	1@1	DFT_QPSK	22.54	-6.15	16.39	43.55	3000	PASS
n13	15	10	156400	1@50	DFT_QPSK	22.64	-6.15	16.49	44.57	3000	PASS
n13	15	10	156400	50@0	DFT_16QAM	20.64	-6.15	14.49	28.12	3000	PASS
n13	15	10	156400	25@12	DFT_16QAM	21.65	-6.15	15.50	35.48	3000	PASS
n13	15	10	156400	1@1	DFT_16QAM	21.68	-6.15	15.53	35.73	3000	PASS
n13	15	10	156400	1@50	DFT_16QAM	21.73	-6.15	15.58	36.14	3000	PASS

n13	15	10	156400	50@0	DFT_64QAM	20.13	-6.15	13.98	25.00	3000	PASS
n13	15	10	156400	25@12	DFT_64QAM	20.16	-6.15	14.01	25.18	3000	PASS
n13	15	10	156400	1@1	DFT_64QAM	20.17	-6.15	14.02	25.23	3000	PASS
n13	15	10	156400	1@50	DFT_64QAM	20.24	-6.15	14.09	25.64	3000	PASS
n13	15	10	156400	50@0	DFT_256QAM	18.07	-6.15	11.92	15.56	3000	PASS
n13	15	10	156400	25@12	DFT_256QAM	18.06	-6.15	11.91	15.52	3000	PASS
n13	15	10	156400	1@1	DFT_256QAM	18.00	-6.15	11.85	15.31	3000	PASS
n13	15	10	156400	1@50	DFT_256QAM	18.10	-6.15	11.95	15.67	3000	PASS
n13	15	10	156400	52@0	CP_QPSK	19.59	-6.15	13.44	22.08	3000	PASS
n13	15	10	156400	26@13	CP_QPSK	21.11	-6.15	14.96	31.33	3000	PASS
n13	15	10	156400	1@1	CP_QPSK	20.98	-6.15	14.83	30.41	3000	PASS
n13	15	10	156400	1@50	CP_QPSK	21.14	-6.15	14.99	31.55	3000	PASS
n13	15	10	156400	52@0	CP_16QAM	19.65	-6.15	13.50	22.39	3000	PASS
n13	15	10	156400	26@13	CP_16QAM	20.64	-6.15	14.49	28.12	3000	PASS
n13	15	10	156400	1@1	CP_16QAM	20.78	-6.15	14.63	29.04	3000	PASS
n13	15	10	156400	1@50	CP_16QAM	20.93	-6.15	14.78	30.06	3000	PASS
n13	15	10	156400	52@0	CP_64QAM	19.13	-6.15	12.98	19.86	3000	PASS
n13	15	10	156400	26@13	CP_64QAM	19.11	-6.15	12.96	19.77	3000	PASS
n13	15	10	156400	1@1	CP_64QAM	19.00	-6.15	12.85	19.28	3000	PASS
n13	15	10	156400	1@50	CP_64QAM	19.12	-6.15	12.97	19.82	3000	PASS
n13	15	10	156400	52@0	CP_256QAM	16.15	-6.15	10.00	10.00	3000	PASS
n13	15	10	156400	26@13	CP_256QAM	16.16	-6.15	10.01	10.02	3000	PASS
n13	15	10	156400	1@1	CP_256QAM	16.14	-6.15	9.99	9.98	3000	PASS
n13	15	10	156400	1@50	CP_256QAM	16.32	-6.15	10.17	10.40	3000	PASS

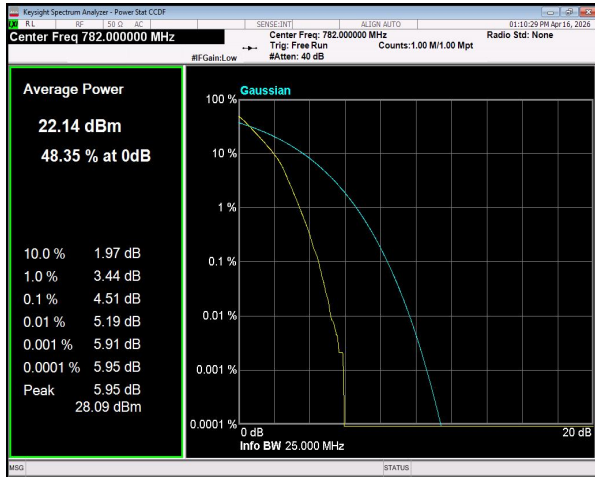
2. Frequency Stability

Temperature (°C)	Voltage (V)	Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Verdict
20(Ref.)	3.84	n13	15	10	156400	50@0	DFT_BPSK	-4	-0.00512	PASS
20	3	n13	15	10	156400	50@0	DFT_BPSK	-6.5	-0.00831	PASS
20	4.35	n13	15	10	156400	50@0	DFT_BPSK	-1.5	-0.00192	PASS
-30	3.84	n13	15	10	156400	50@0	DFT_BPSK	-5.4	-0.00691	PASS
-20	3.84	n13	15	10	156400	50@0	DFT_BPSK	-3.5	-0.00448	PASS
-10	3.84	n13	15	10	156400	50@0	DFT_BPSK	-4	-0.00512	PASS
0	3.84	n13	15	10	156400	50@0	DFT_BPSK	-6.5	-0.00831	PASS
10	3.84	n13	15	10	156400	50@0	DFT_BPSK	-6.9	-0.00882	PASS
30	3.84	n13	15	10	156400	50@0	DFT_BPSK	-4.3	-0.0055	PASS
40	3.84	n13	15	10	156400	50@0	DFT_BPSK	-4.8	-0.00614	PASS
50	3.84	n13	15	10	156400	50@0	DFT_BPSK	-5.9	-0.00754	PASS

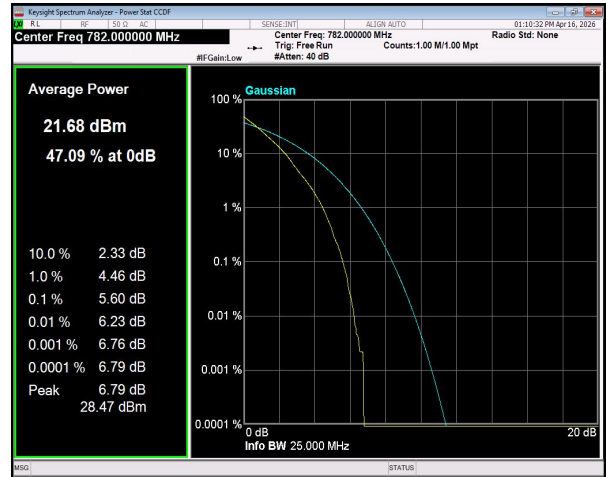
Note: The frequency fundamental emissions stay within the authorized frequency block.

3. Peak-to-average Ratio

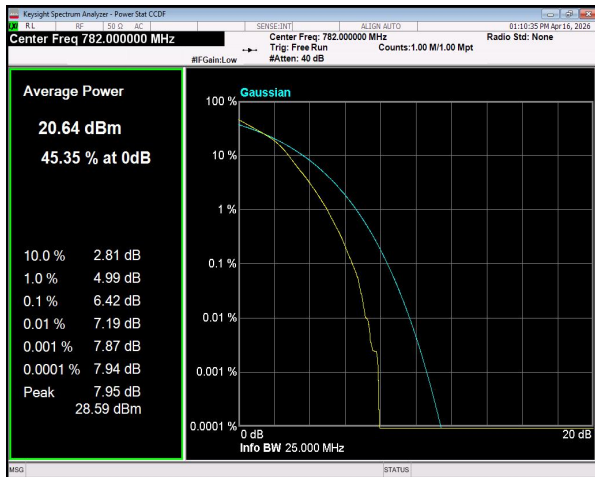
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	High Limit (dB)	Verdict
n13	15	10	156400	50@0	DFT_BPSK	4.51	13	PASS
n13	15	10	156400	50@0	DFT_QPSK	5.60	13	PASS
n13	15	10	156400	50@0	DFT_16QAM	6.42	13	PASS
n13	15	10	156400	50@0	DFT_64QAM	6.61	13	PASS
n13	15	10	156400	50@0	DFT_256QAM	6.65	13	PASS



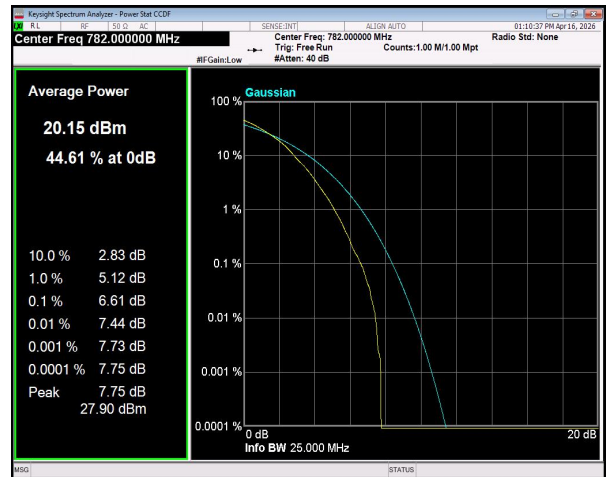
n13 SCS=15kHz DFT_BPSK BW=10MHz Channel=156400
RB=50@0



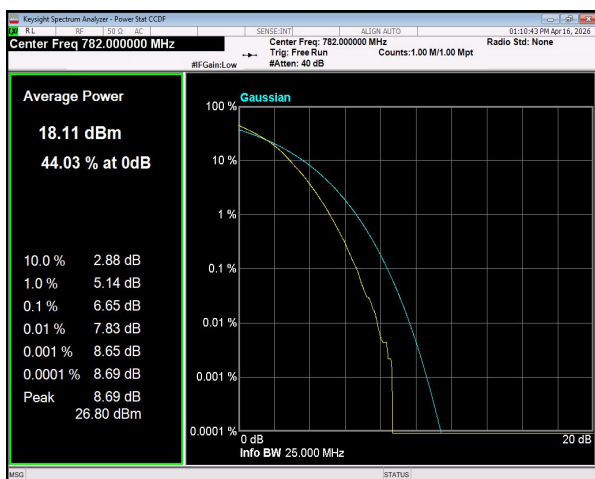
n13 SCS=15kHz DFT_QPSK BW=10MHz Channel=156400
RB=50@0



n13 SCS=15kHz DFT_16QAM BW=10MHz Channel=156400
RB=50@0



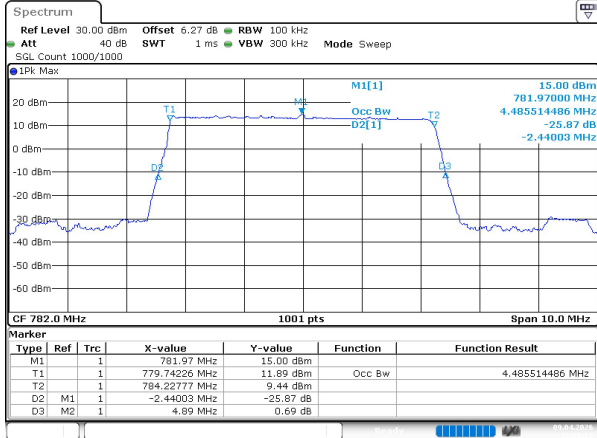
n13 SCS=15kHz DFT_64QAM BW=10MHz Channel=156400
RB=50@0



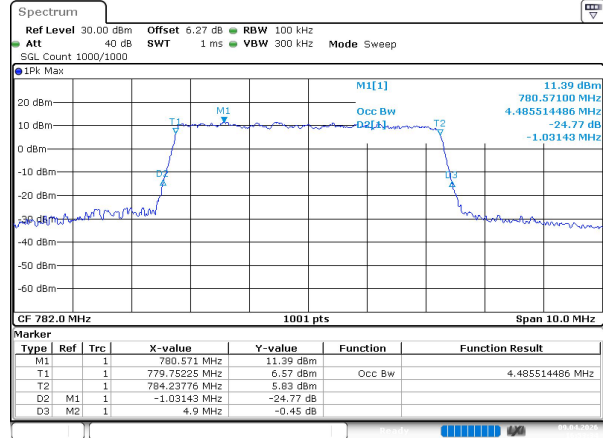
n13 SCS=15kHz DFT_256QAM BW=10MHz Channel=156400
RB=50@0

4. Occupied Bandwidth

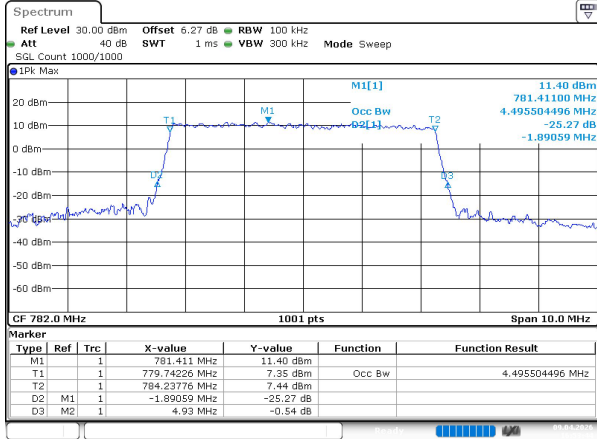
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	UL Frequency (MHz)	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n13	15	5	156400	782	25@0	DFT_BPSK	4.486	4.890	PASS
n13	15	5	156400	782	25@0	CP_QPSK	4.486	4.900	PASS
n13	15	5	156400	782	25@0	CP_16QAM	4.496	4.930	PASS
n13	15	5	156400	782	25@0	CP_64QAM	4.486	4.910	PASS
n13	15	5	156400	782	25@0	CP_256QAM	4.486	4.910	PASS
n13	15	10	156400	782	50@0	DFT_BPSK	9.031	9.560	PASS
n13	15	10	156400	782	52@0	CP_QPSK	9.311	9.880	PASS
n13	15	10	156400	782	52@0	CP_16QAM	9.311	9.880	PASS
n13	15	10	156400	782	52@0	CP_64QAM	9.311	9.860	PASS
n13	15	10	156400	782	52@0	CP_256QAM	9.291	9.900	PASS



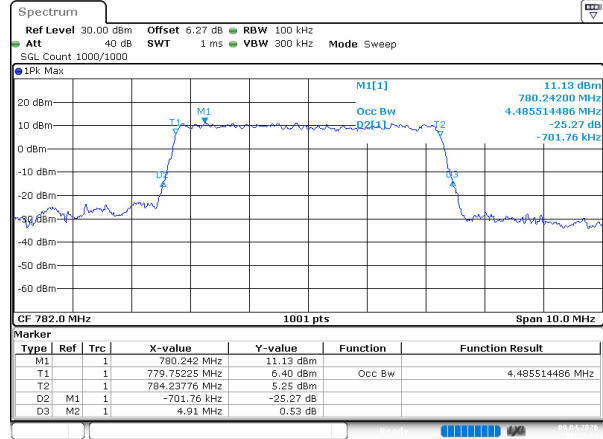
n13 SCS=15kHz DFT_BPSK BW=5MHz Channel=156400
RB=25@0



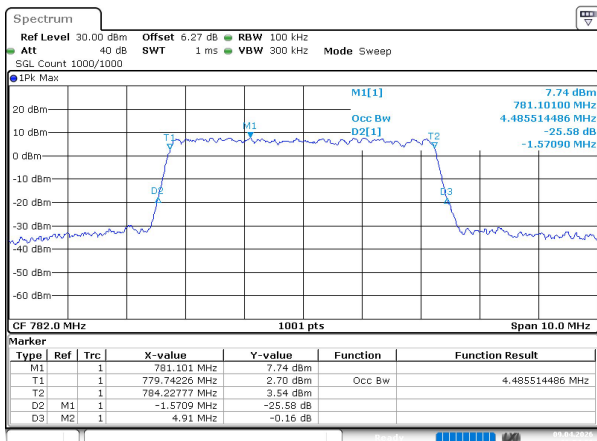
n13 SCS=15kHz CP_QPSK BW=5MHz Channel=156400
RB=25@0



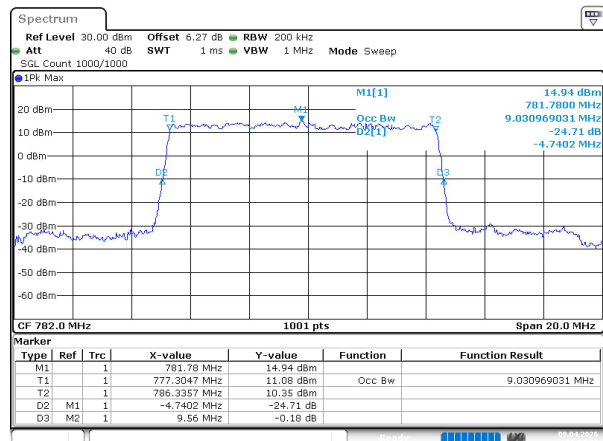
n13 SCS=15kHz CP_16QAM BW=5MHz Channel=156400
RB=25@0



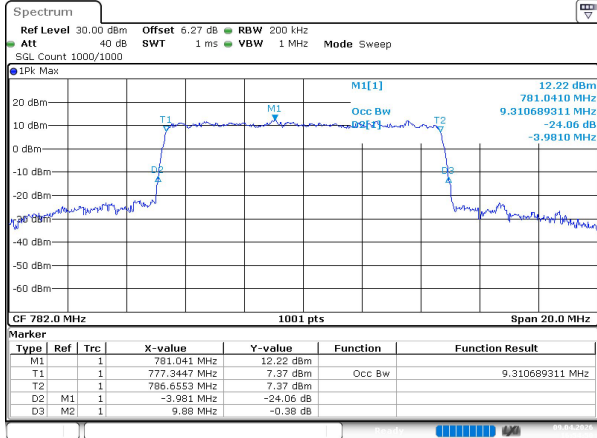
n13 SCS=15kHz CP_64QAM BW=5MHz Channel=156400
RB=25@0



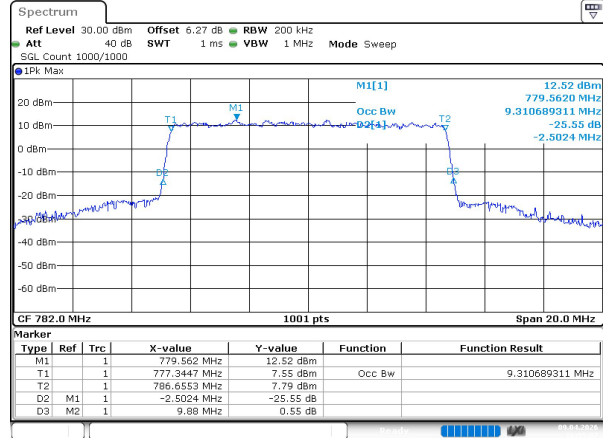
n13 SCS=15kHz CP_256QAM BW=5MHz Channel=156400
RB=25@0



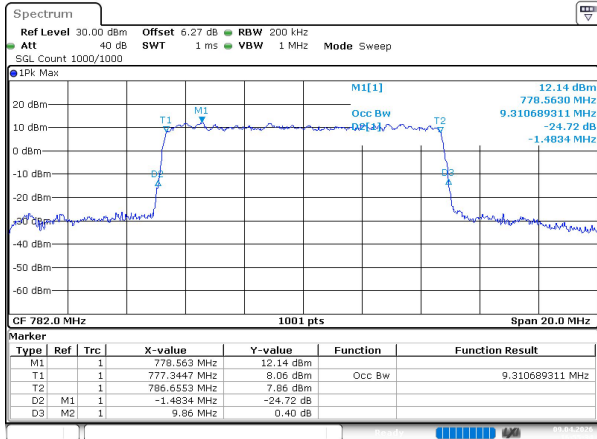
n13 SCS=15kHz DFT_BPSK BW=10MHz Channel=156400
RB=50@0



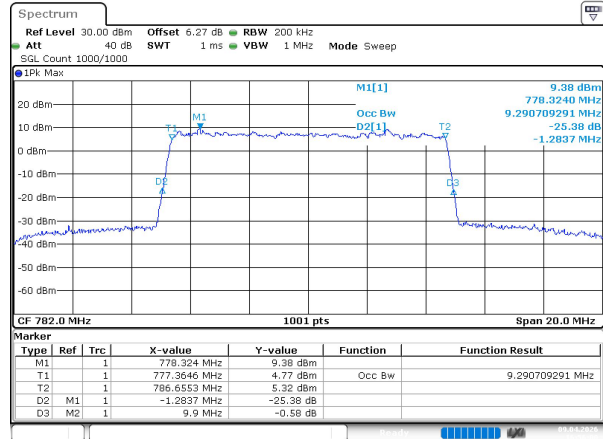
n13 SCS=15kHz CP_QPSK BW=10MHz Channel=156400
RB=52@0



n13 SCS=15kHz CP_16QAM BW=10MHz Channel=156400
RB=52@0

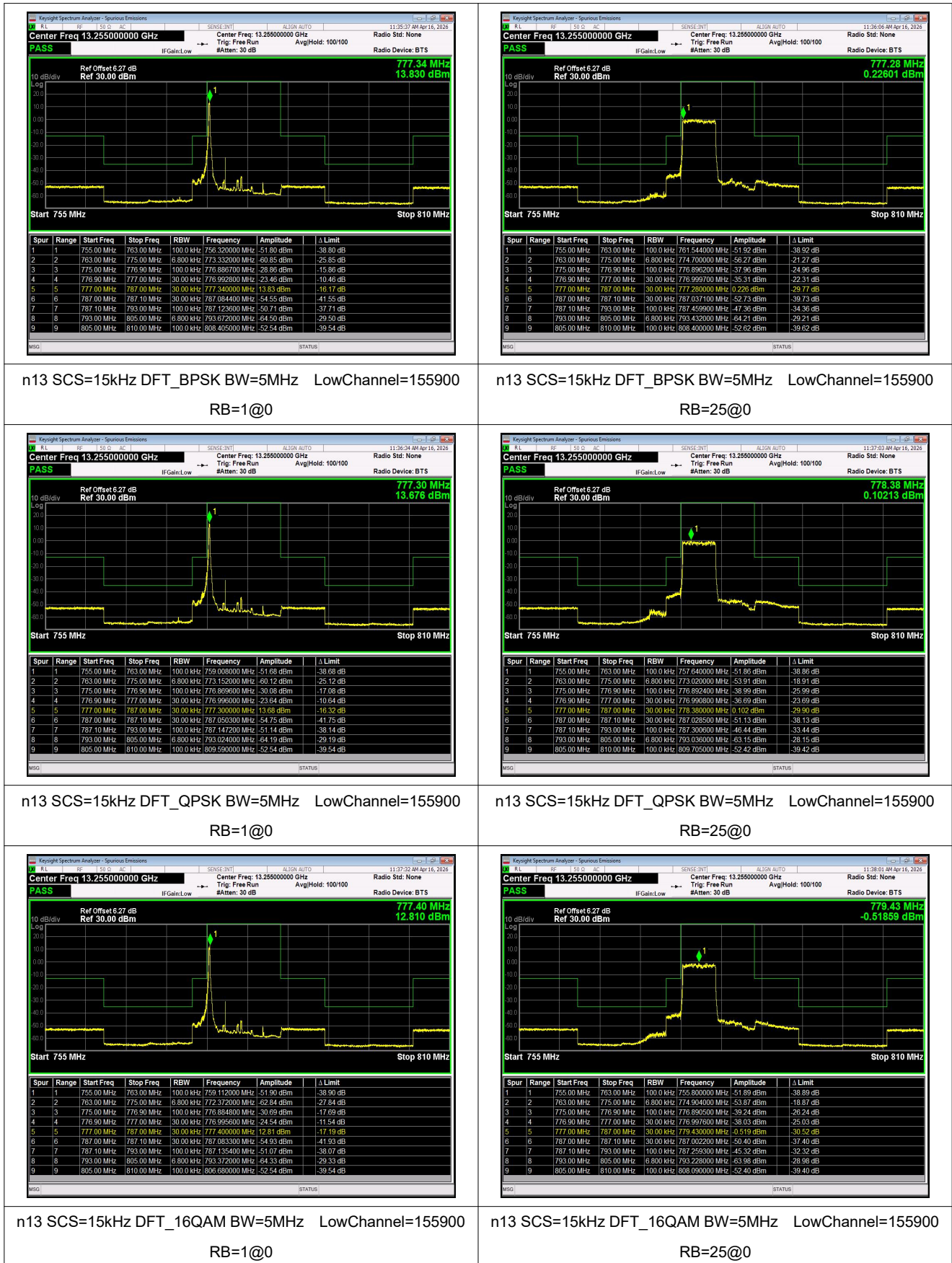


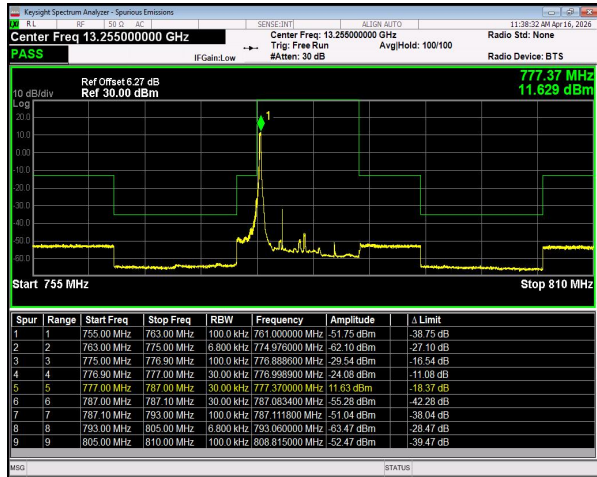
n13 SCS=15kHz CP_64QAM BW=10MHz Channel=156400
RB=52@0



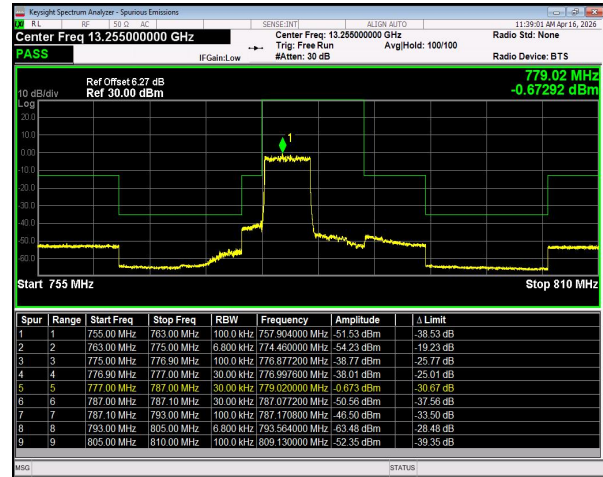
n13 SCS=15kHz CP_256QAM BW=10MHz Channel=156400
RB=52@0

5. Conducted Band Edge

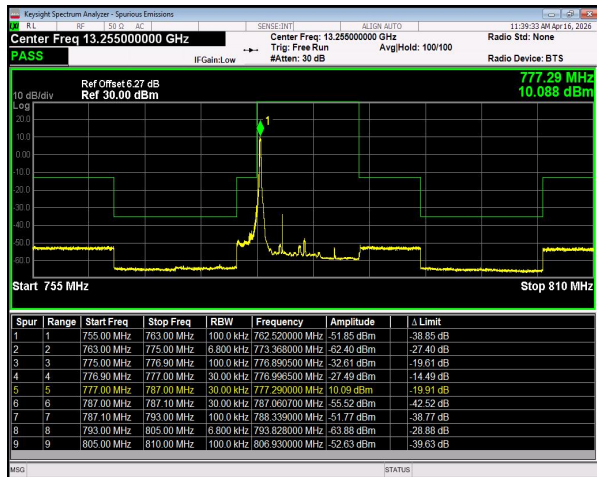




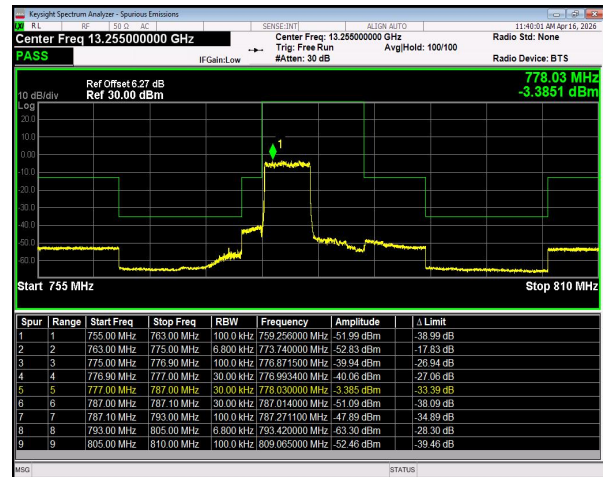
n13 SCS=15kHz DFT_64QAM BW=5MHz LowChannel=155900
RB=1@0



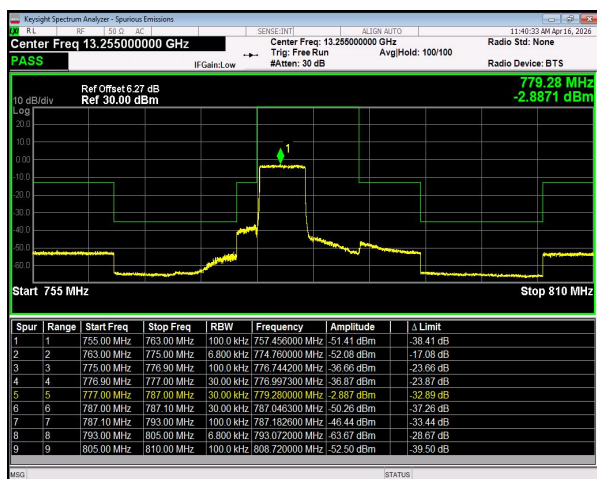
n13 SCS=15kHz DFT_64QAM BW=5MHz LowChannel=155900
RB=25@0



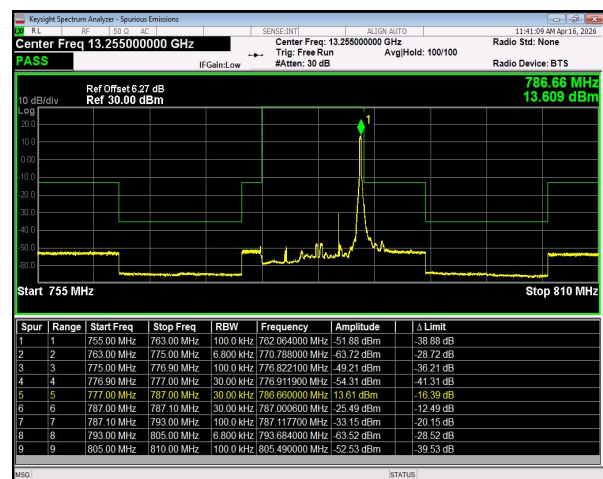
n13 SCS=15kHz DFT_256QAM BW=5MHz
LowChannel=155900 RB=1@0



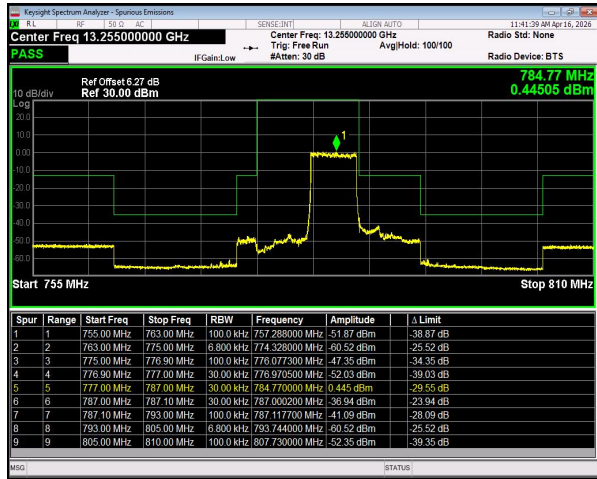
n13 SCS=15kHz DFT_256QAM BW=5MHz
LowChannel=155900 RB=25@0



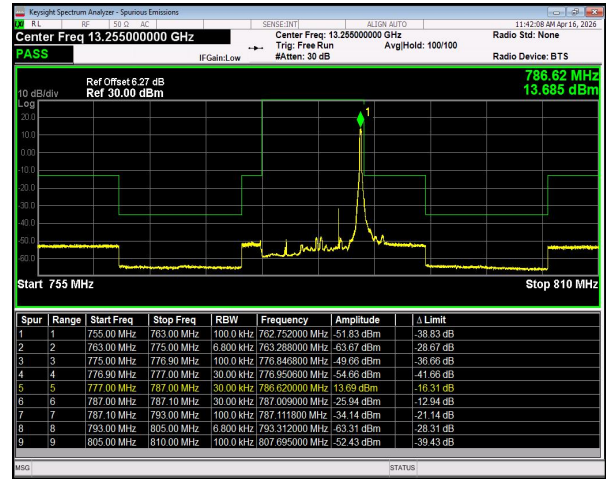
n13 SCS=15kHz CP_QPSK BW=5MHz LowChannel=155900
RB=25@0



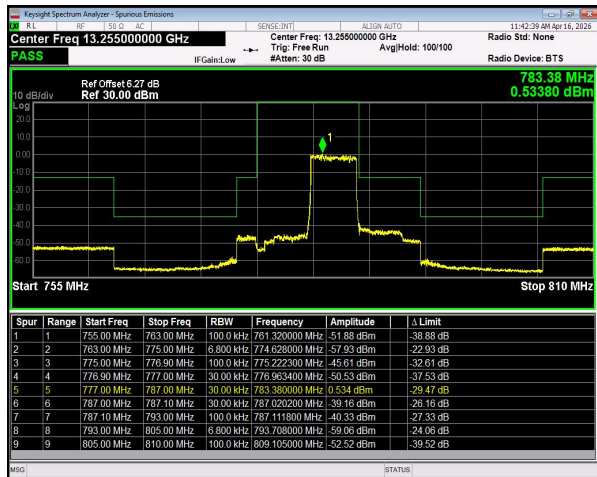
n13 SCS=15kHz DFT_BPSK BW=5MHz HighChannel=156900
RB=1@24



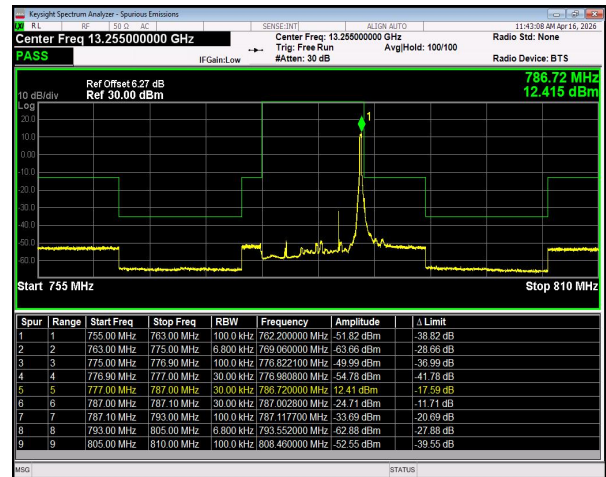
n13 SCS=15kHz DFT_BPSK BW=5MHz HighChannel=156900
RB=25@0



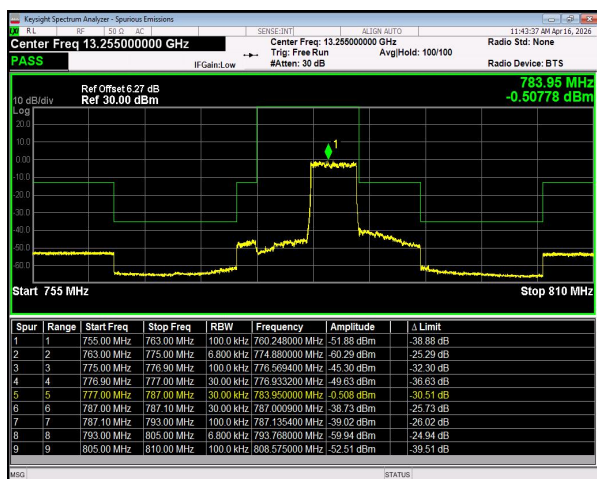
n13 SCS=15kHz DFT_QPSK BW=5MHz HighChannel=156900
RB=1@24



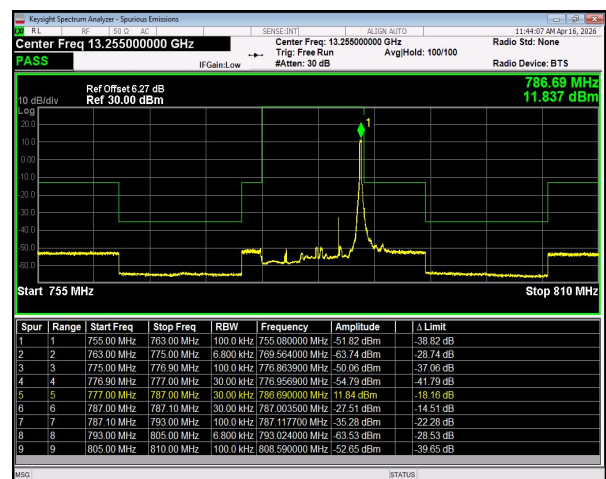
n13 SCS=15kHz DFT_QPSK BW=5MHz HighChannel=156900
RB=25@0



n13 SCS=15kHz DFT_16QAM BW=5MHz HighChannel=156900
RB=1@24



n13 SCS=15kHz DFT_16QAM BW=5MHz HighChannel=156900
RB=25@0



n13 SCS=15kHz DFT_64QAM BW=5MHz HighChannel=156900
RB=1@24