

RF Test Data for LTE (Conducted Measurement)

Product Name: Smart phone

Trade Mark: KRIP

Test Model: K60

FCC ID: 2APX7K60

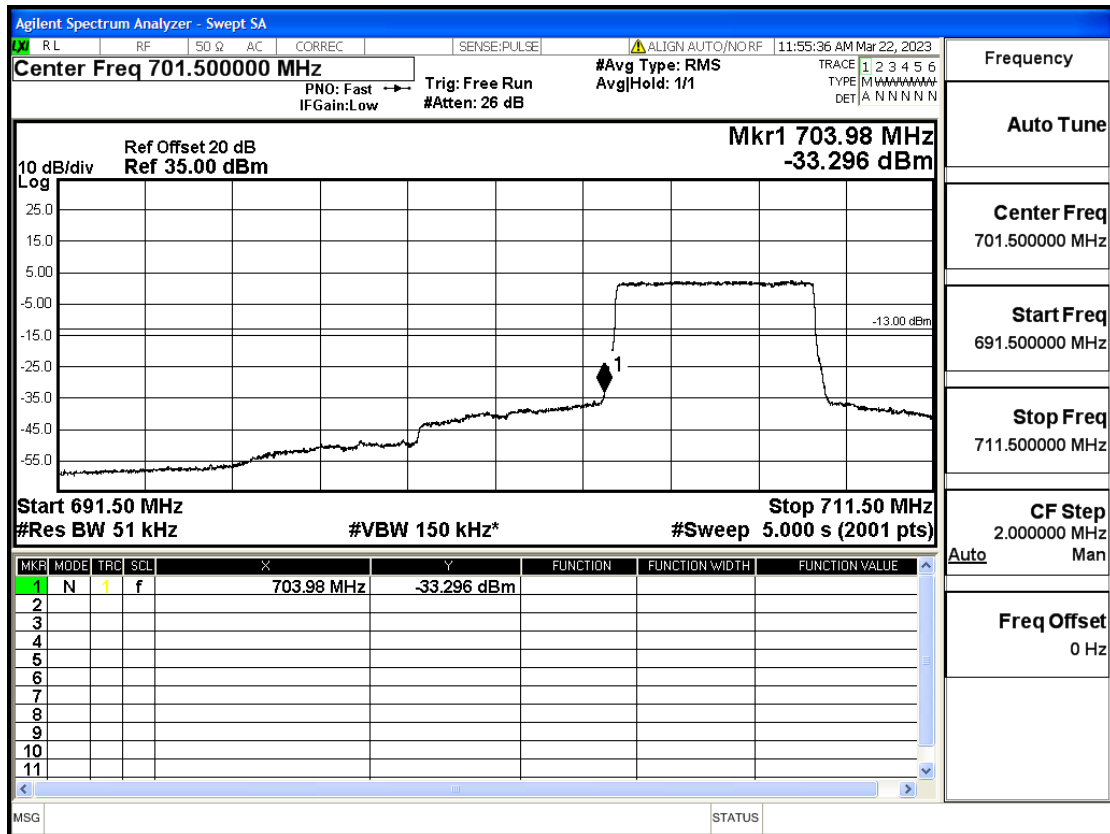
Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
Remark:	For LTE Band17

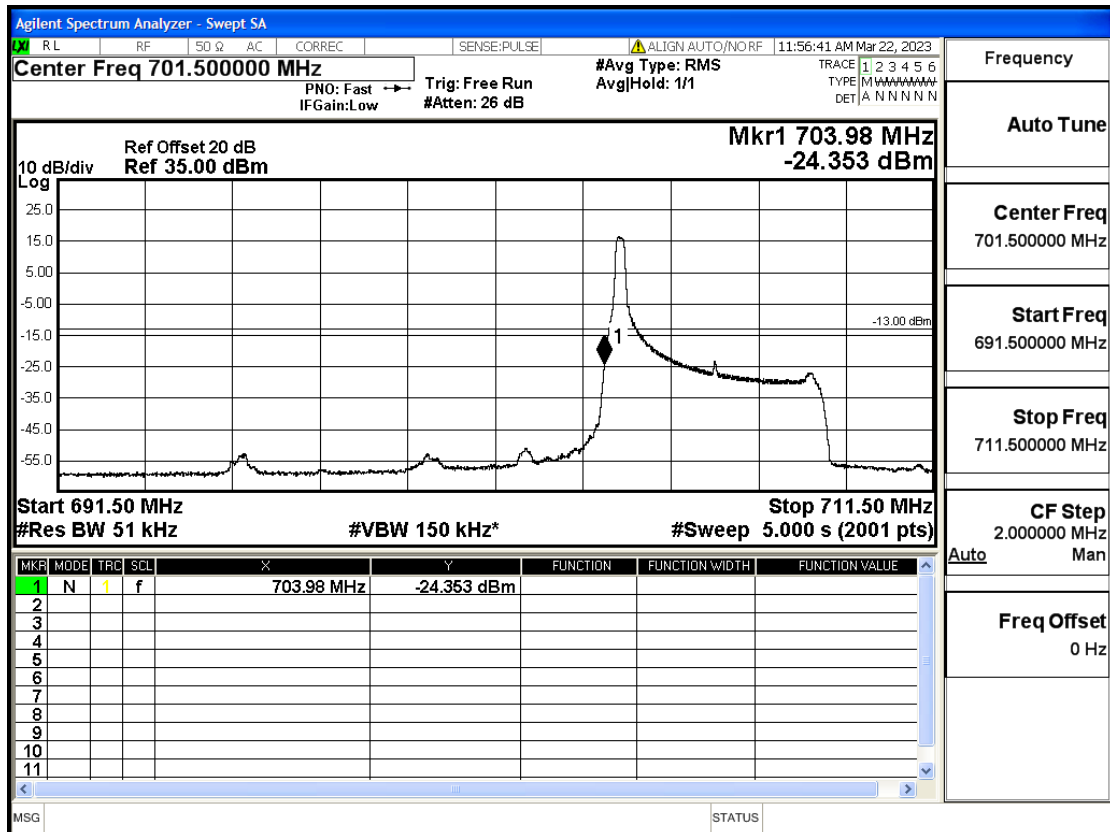
Band Edge and Emission Mask

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Conclusion
Band17	5	706.5	QPSK	25	LOW	Pass
Band17	5	706.5	QPSK	1	LOW	Pass
Band17	5	706.5	16QAM	25	LOW	Pass
Band17	5	706.5	16QAM	1	LOW	Pass
Band17	5	713.5	QPSK	25	LOW	Pass
Band17	5	713.5	QPSK	1	HIGH	Pass
Band17	5	713.5	16QAM	25	LOW	Pass
Band17	5	713.5	16QAM	1	HIGH	Pass
Band17	10	709	QPSK	50	LOW	Pass
Band17	10	709	QPSK	1	LOW	Pass
Band17	10	709	16QAM	50	LOW	Pass
Band17	10	709	16QAM	1	LOW	Pass
Band17	10	711	QPSK	50	LOW	Pass
Band17	10	711	QPSK	1	HIGH	Pass
Band17	10	711	16QAM	50	LOW	Pass
Band17	10	711	16QAM	1	HIGH	Pass

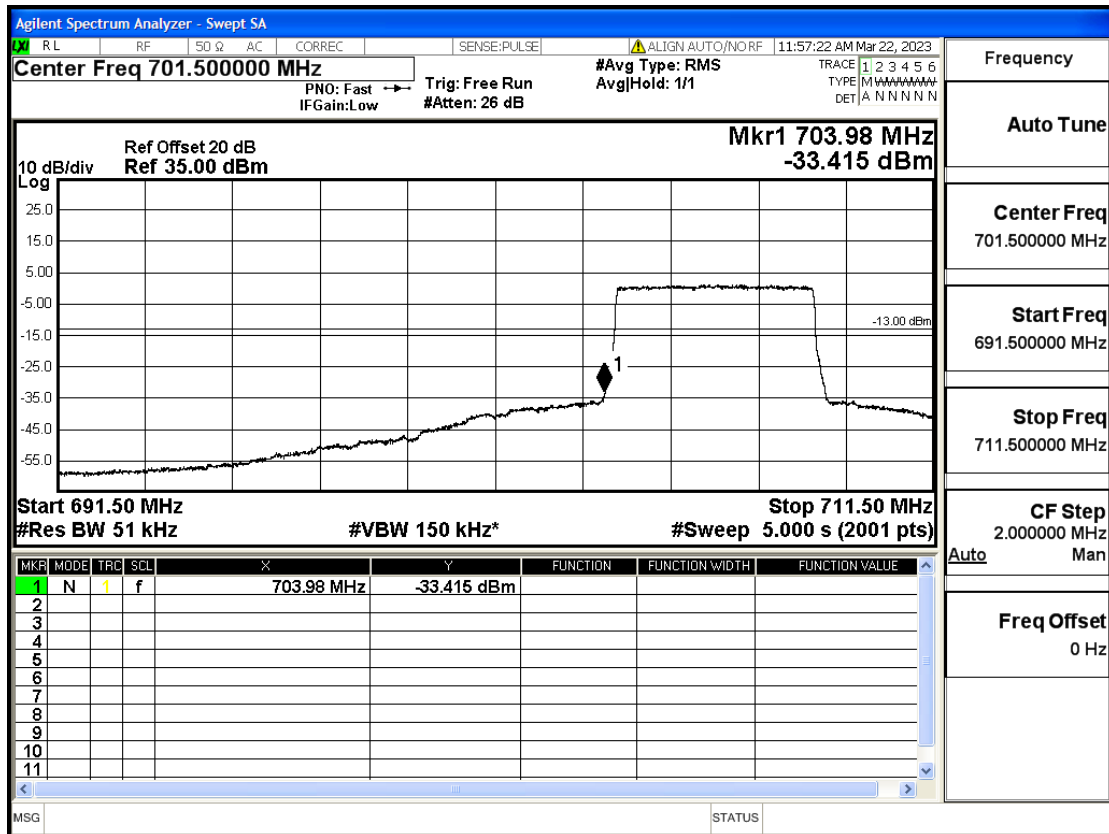
Band17-5-706.5-QPSK-25#LOW@Pass



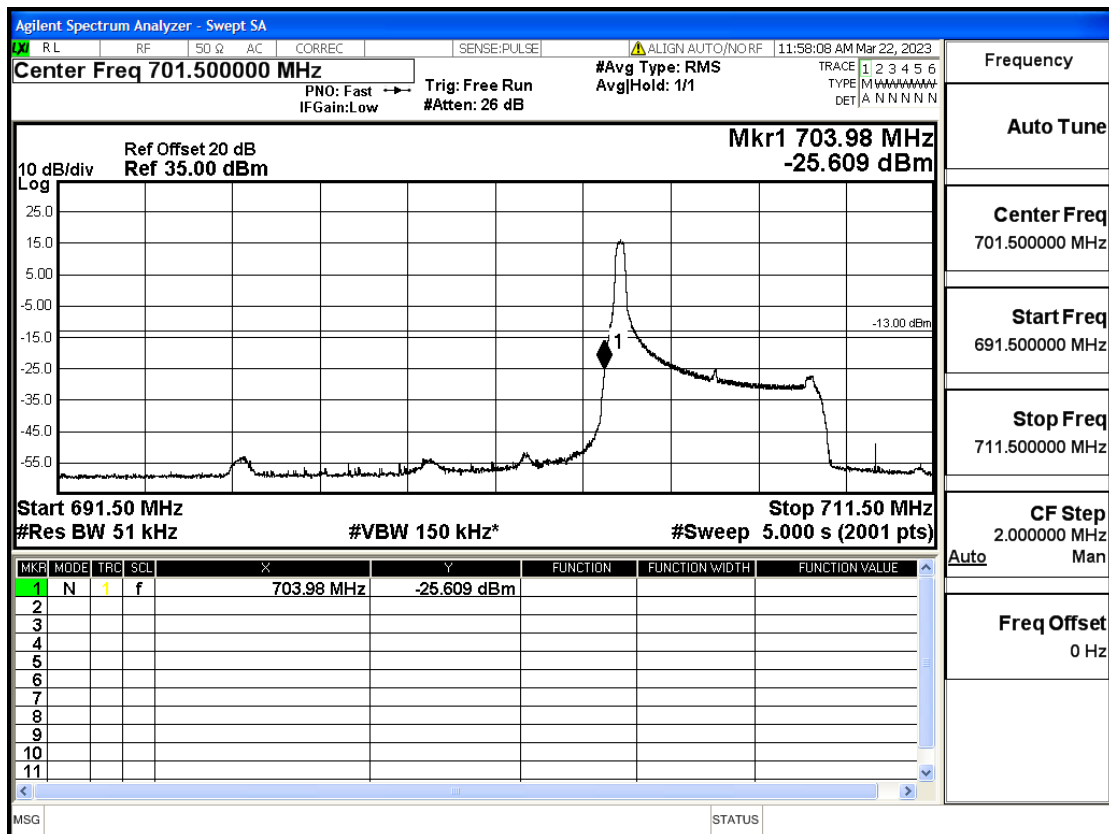
Band17-5-706.5-QPSK-1#LOW@Pass



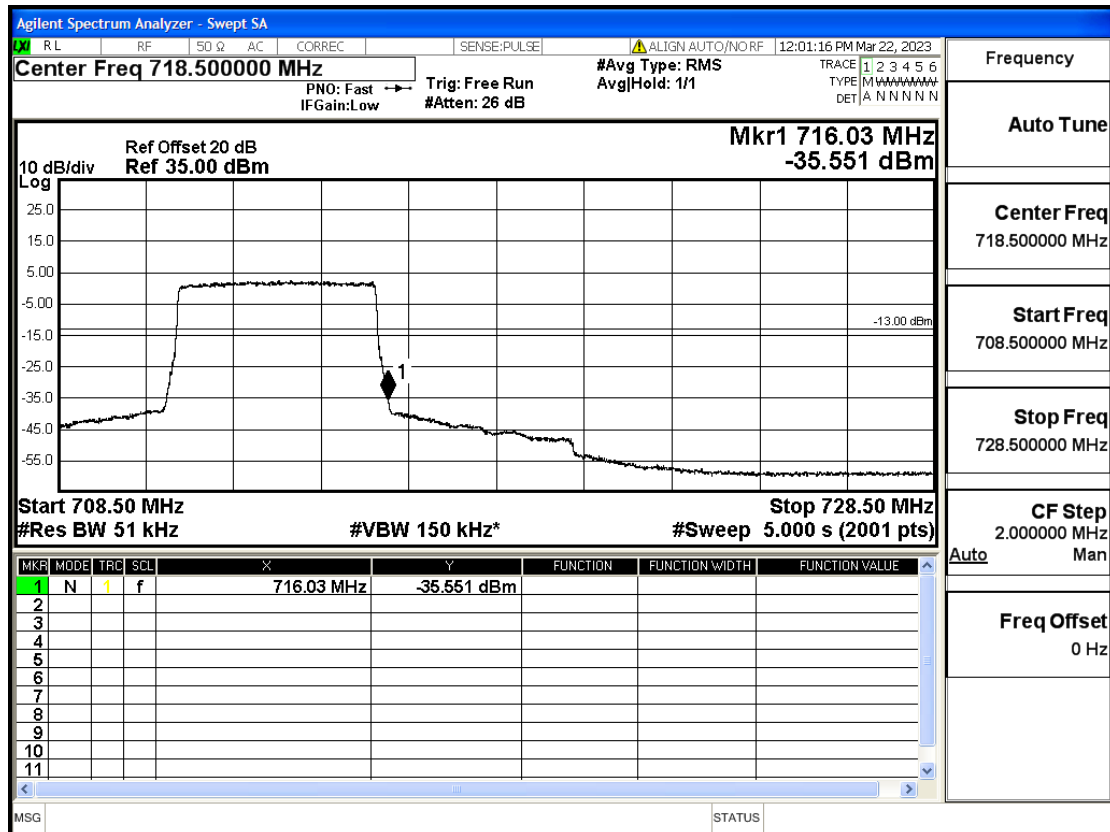
Band17-5-706.5-16QAM-25#LOW@Pass



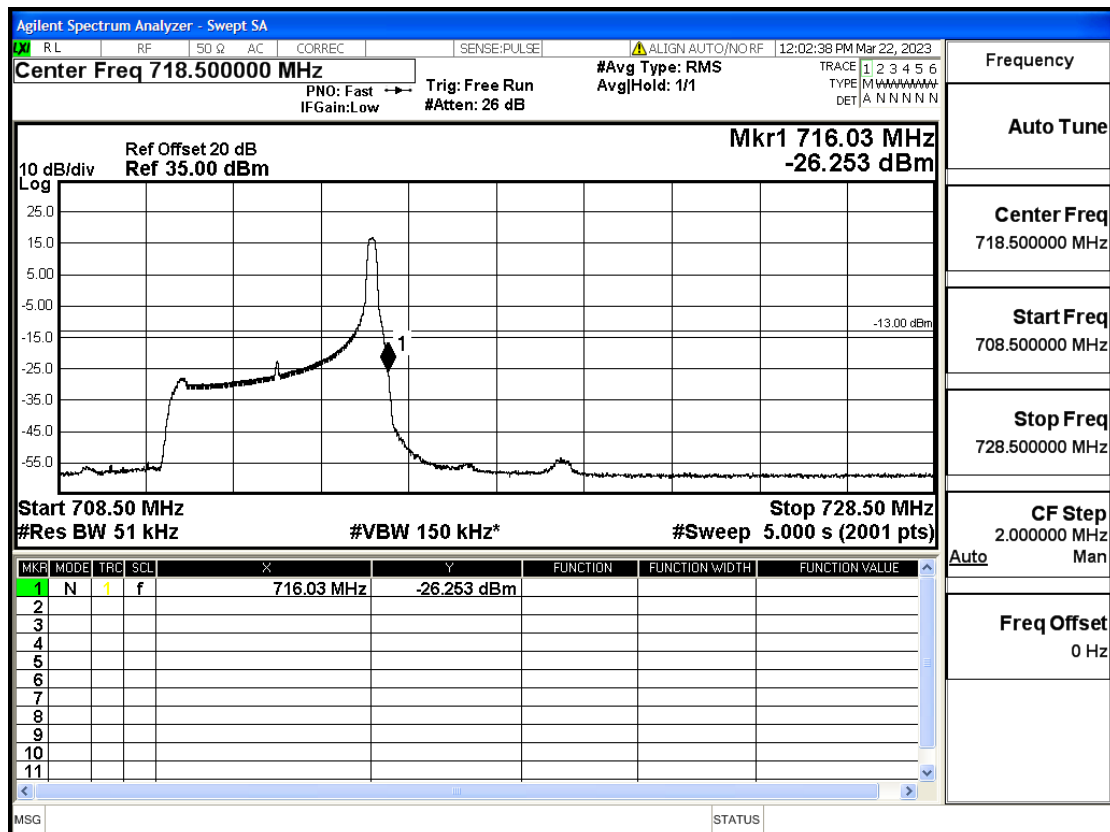
Band17-5-706.5-16QAM-1#LOW@Pass



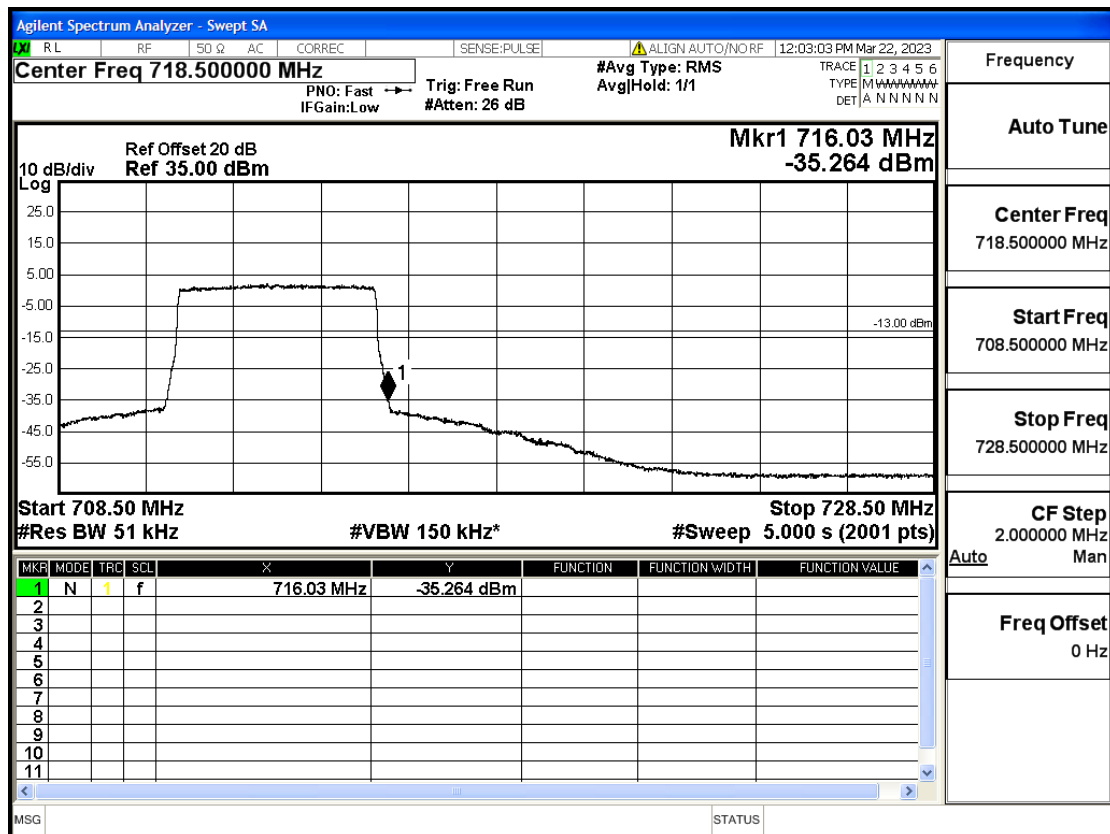
Band17-5-713.5-QPSK-25#LOW@Pass



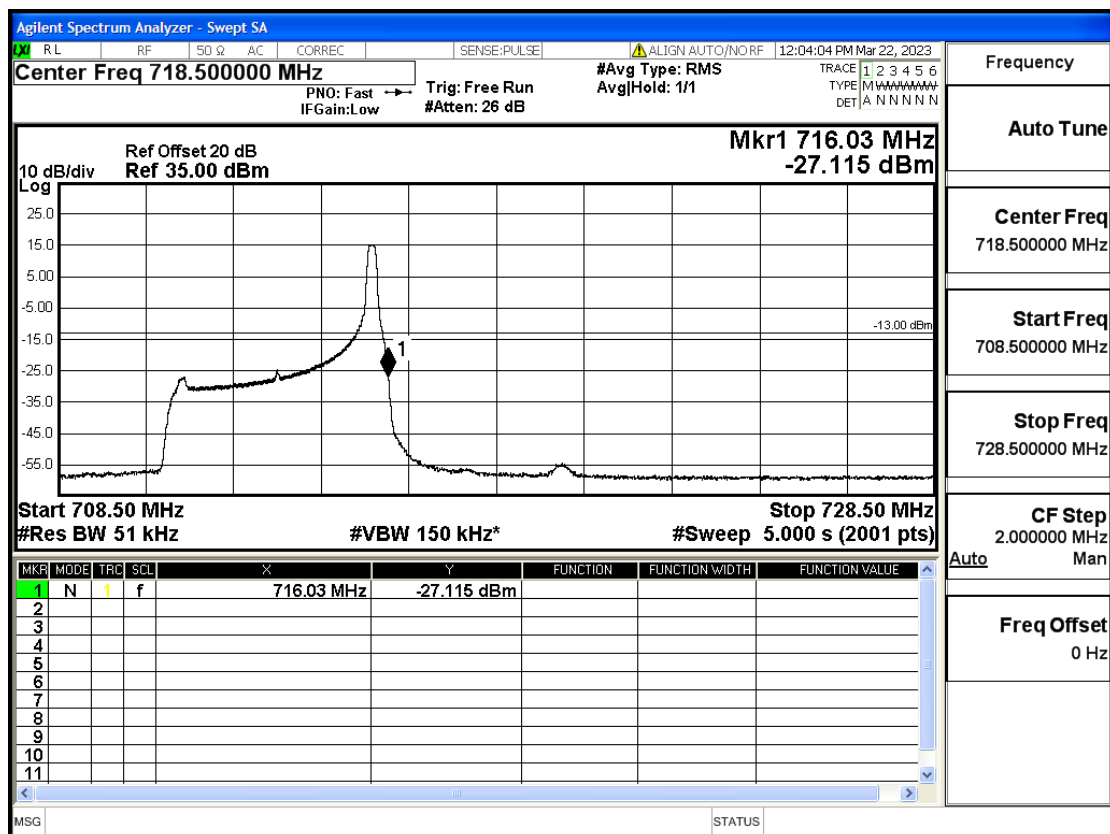
Band17-5-713.5-QPSK-1#HIGH@Pass



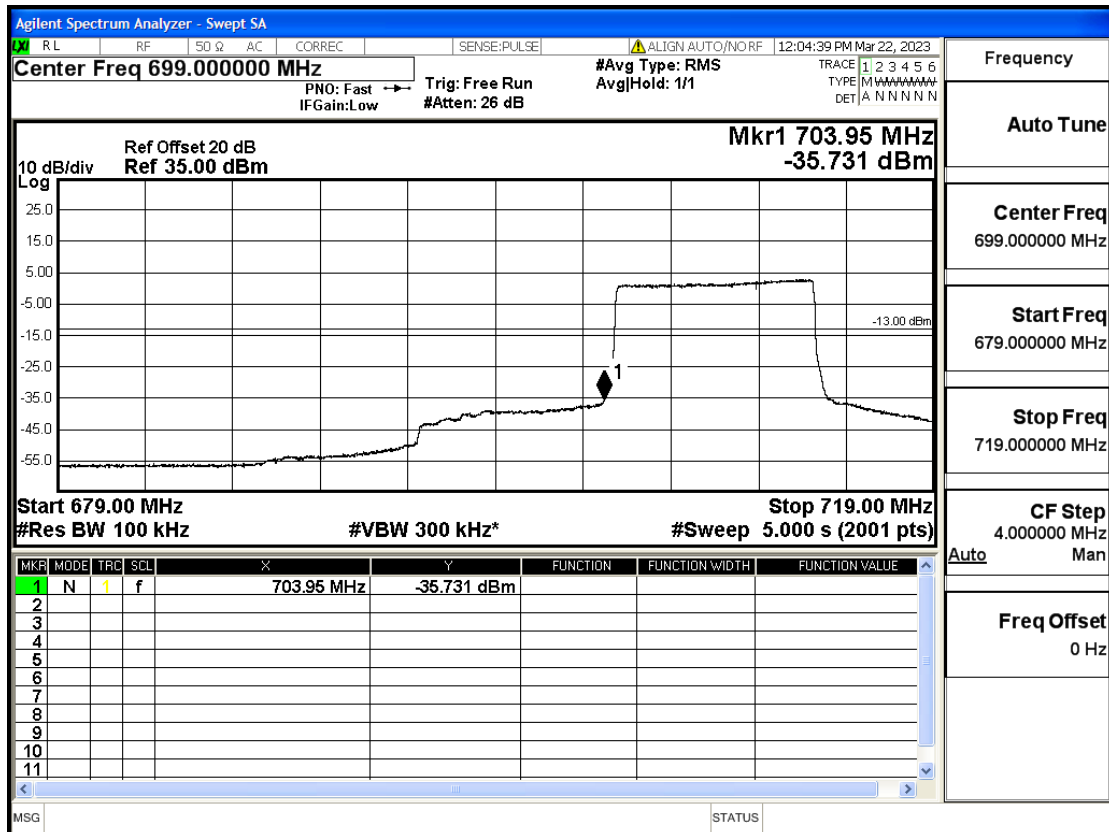
Band17-5-713.5-16QAM-25#LOW@Pass



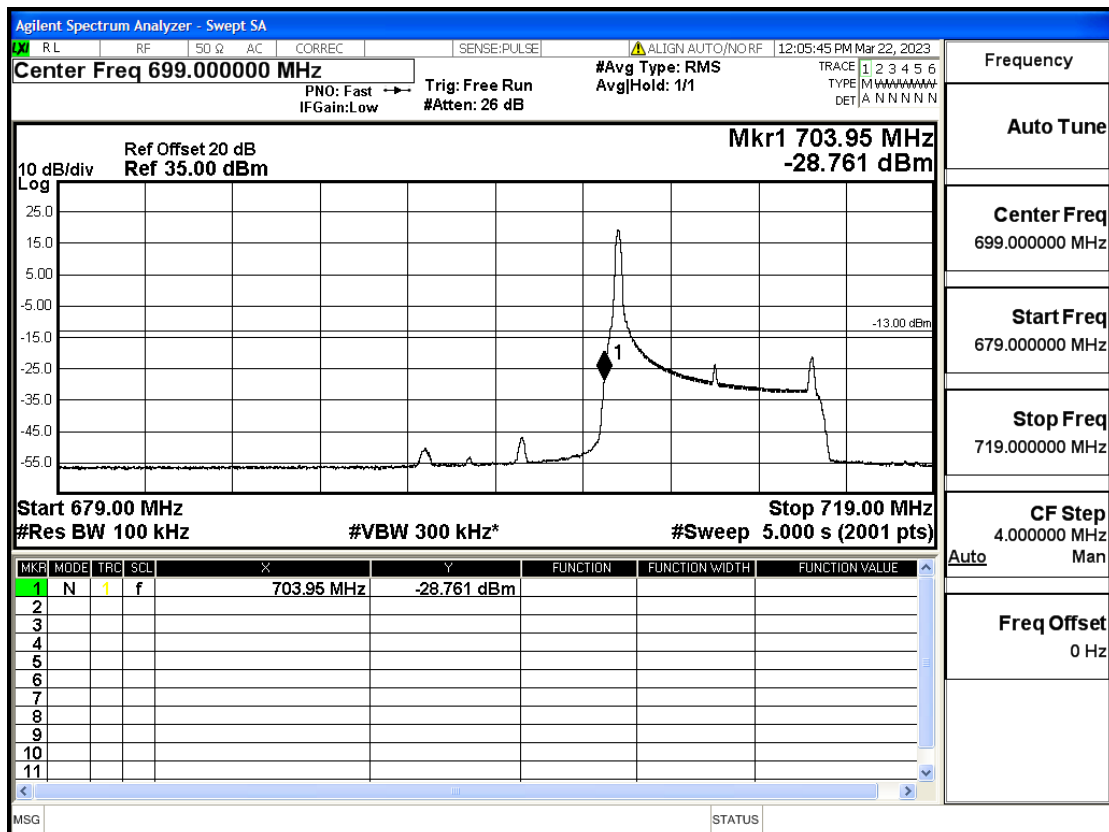
Band17-5-713.5-16QAM-1#HIGH@Pass



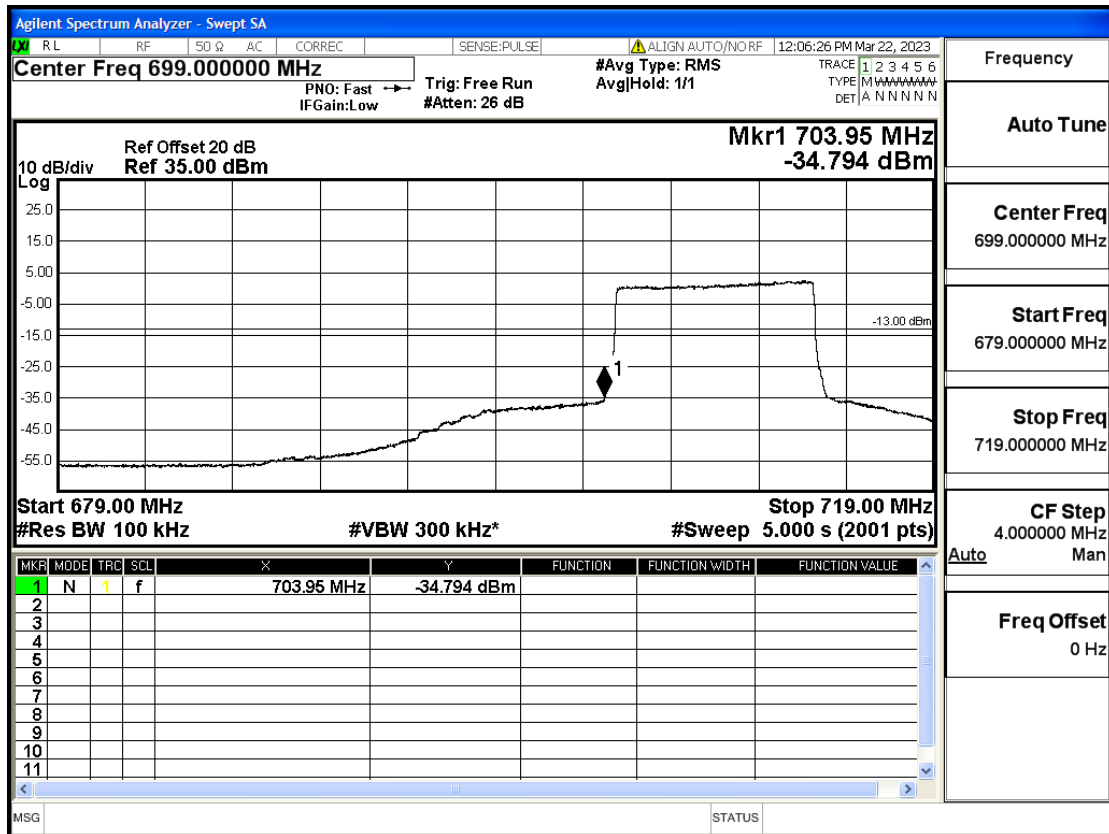
Band17-10-709-QPSK-50#LOW@Pass



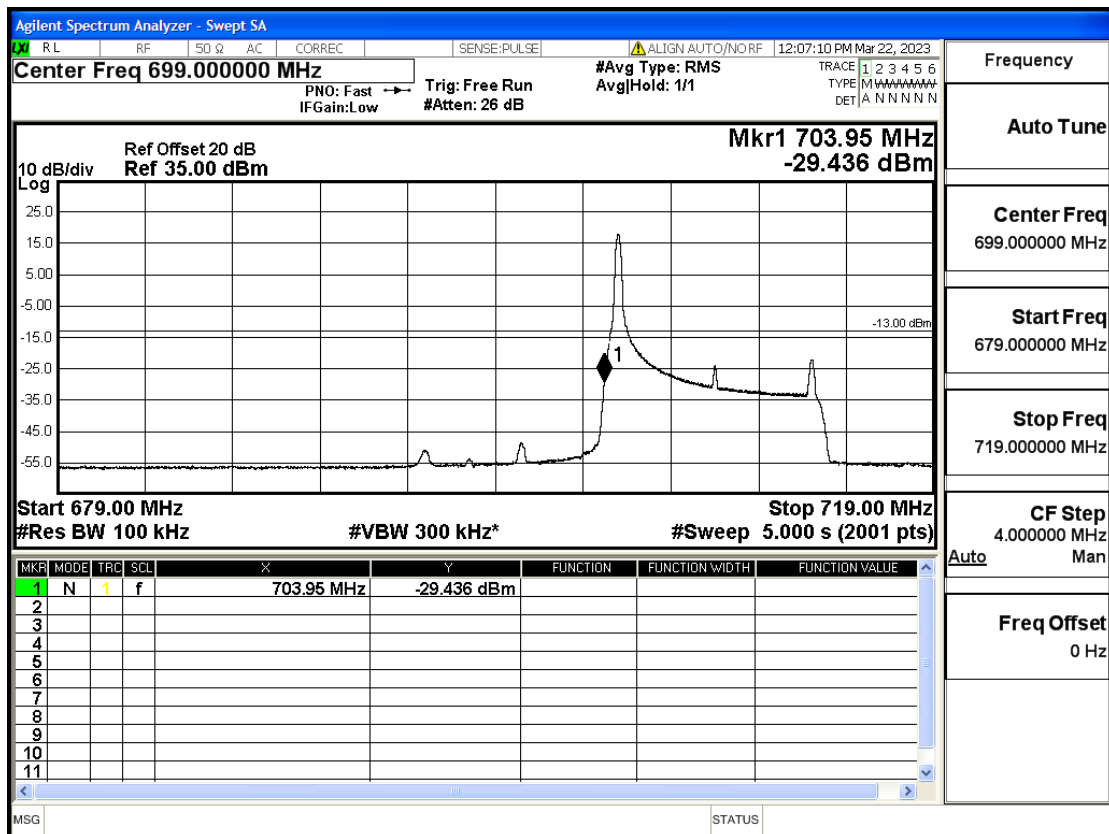
Band17-10-709-QPSK-1#LOW@Pass



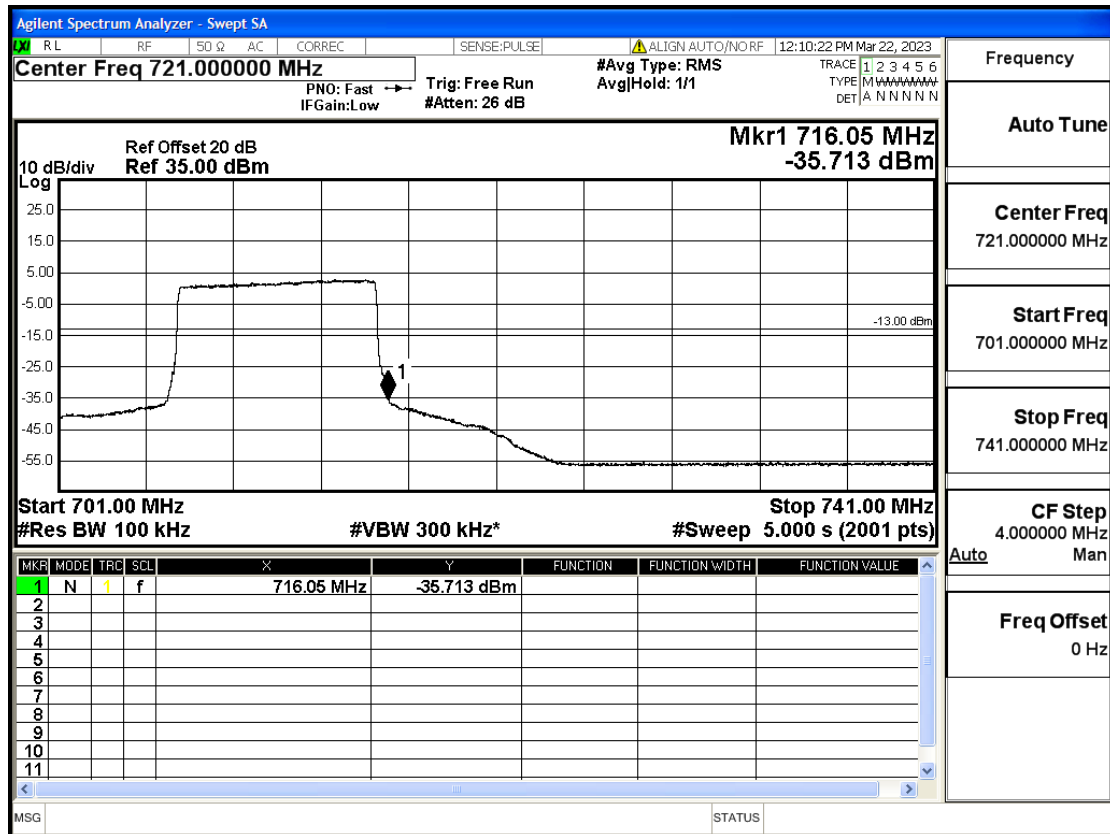
Band17-10-709-16QAM-50#LOW@Pass



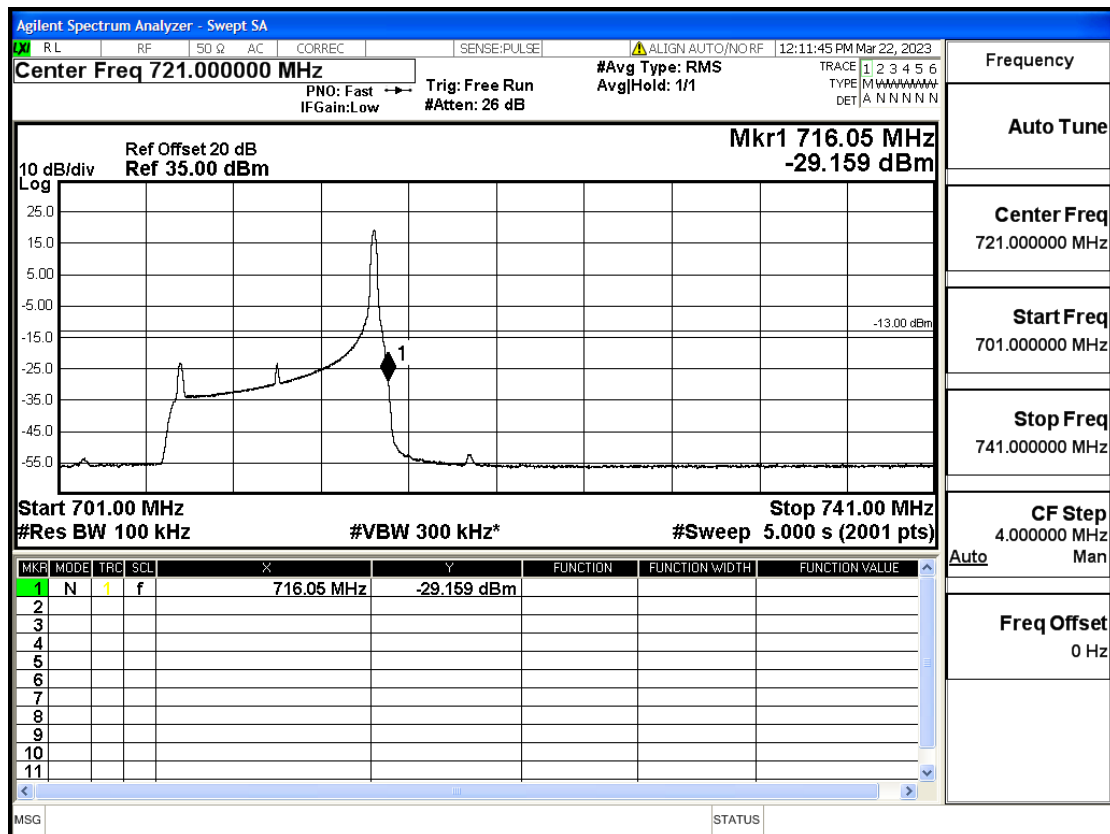
Band17-10-709-16QAM-1#LOW@Pass



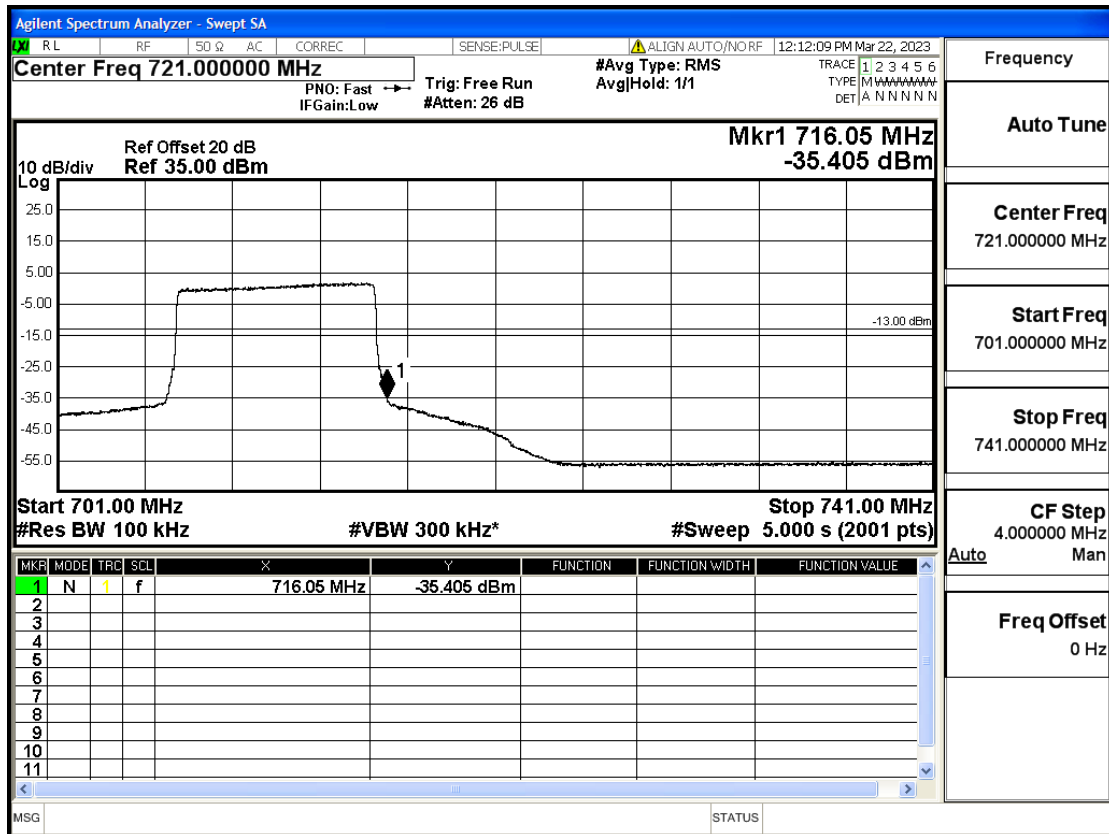
Band17-10-711-QPSK-50#LOW@Pass



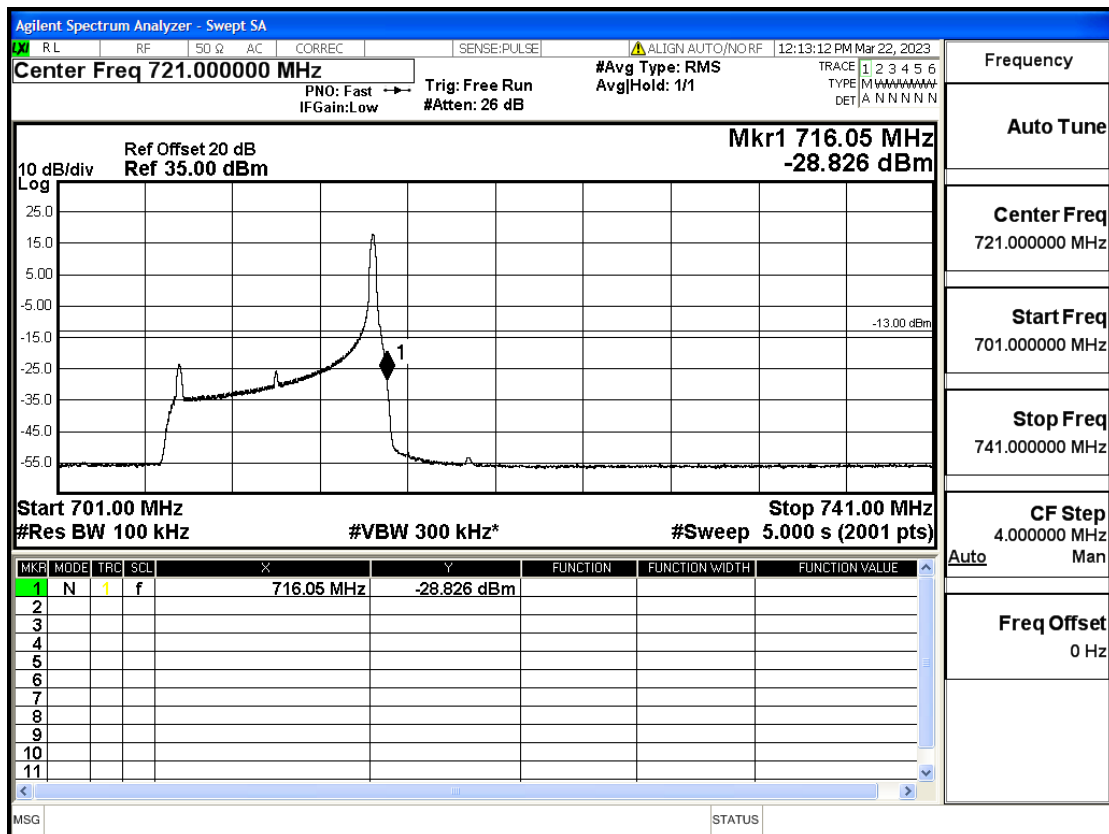
Band17-10-711-QPSK-1#HIGH@Pass



Band17-10-711-16QAM-50#LOW@Pass



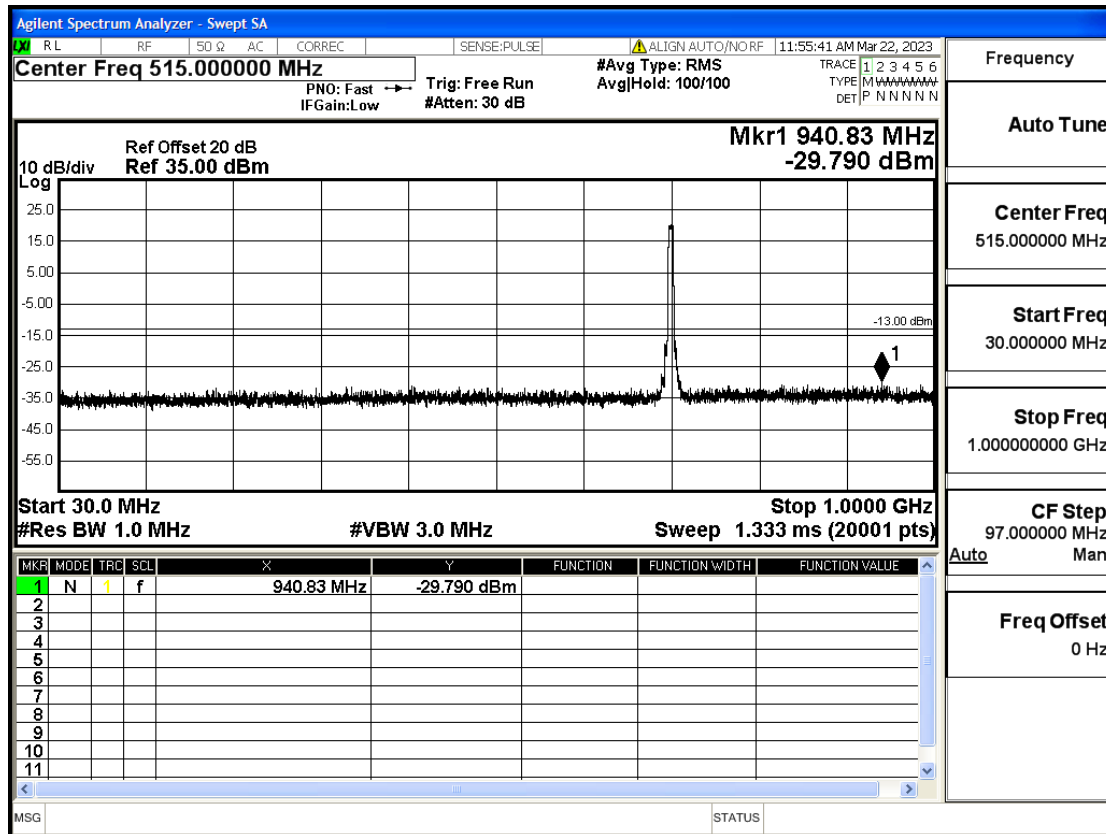
Band17-10-711-16QAM-1#HIGH@Pass



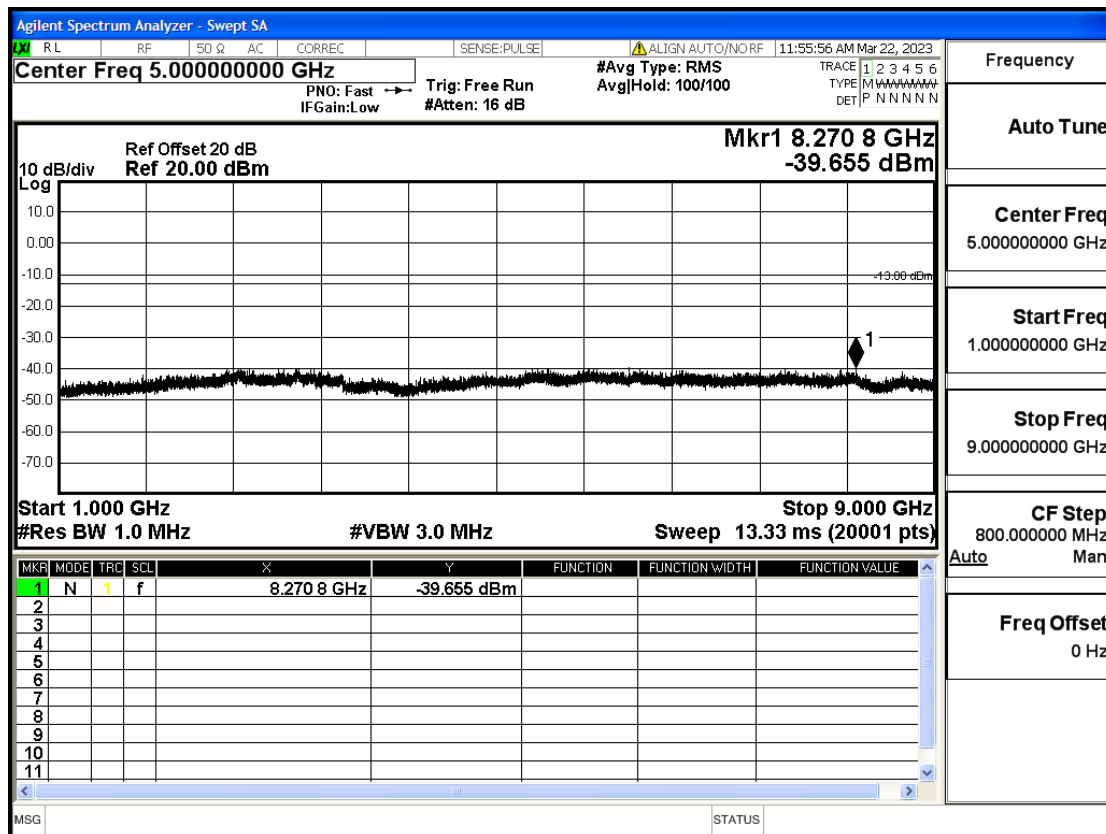
Conducted Spurious Emission

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Test Condition	Transmitter Spurious Emission(Pass/Fail)
OB17	5	706.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB17	5	706.5	QPSK	25	LOW	1GHz-9GHz	Pass
OB17	5	710	QPSK	25	LOW	30mHz-1GHz	Pass
OB17	5	710	QPSK	25	LOW	1GHz-9GHz	Pass
OB17	5	713.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB17	5	713.5	QPSK	25	LOW	1GHz-9GHz	Pass
OB17	10	709	QPSK	50	LOW	30mHz-1GHz	Pass
OB17	10	709	QPSK	50	LOW	1GHz-9GHz	Pass
OB17	10	710	QPSK	50	LOW	30mHz-1GHz	Pass
OB17	10	710	QPSK	50	LOW	1GHz-9GHz	Pass
OB17	10	711	QPSK	50	LOW	30mHz-1GHz	Pass
OB17	10	711	QPSK	50	LOW	1GHz-9GHz	Pass
OB17	5	706.5	Q16	25	LOW	30mHz-1GHz	Pass
OB17	5	706.5	Q16	25	LOW	1GHz-9GHz	Pass
OB17	5	710	Q16	25	LOW	30mHz-1GHz	Pass
OB17	5	710	Q16	25	LOW	1GHz-9GHz	Pass
OB17	5	713.5	Q16	25	LOW	30mHz-1GHz	Pass
OB17	5	713.5	Q16	25	LOW	1GHz-9GHz	Pass
OB17	10	709	Q16	50	LOW	30mHz-1GHz	Pass
OB17	10	709	Q16	50	LOW	1GHz-9GHz	Pass
OB17	10	710	Q16	50	LOW	30mHz-1GHz	Pass
OB17	10	710	Q16	50	LOW	1GHz-9GHz	Pass
OB17	10	711	Q16	50	LOW	30mHz-1GHz	Pass
OB17	10	711	Q16	50	LOW	1GHz-9GHz	Pass

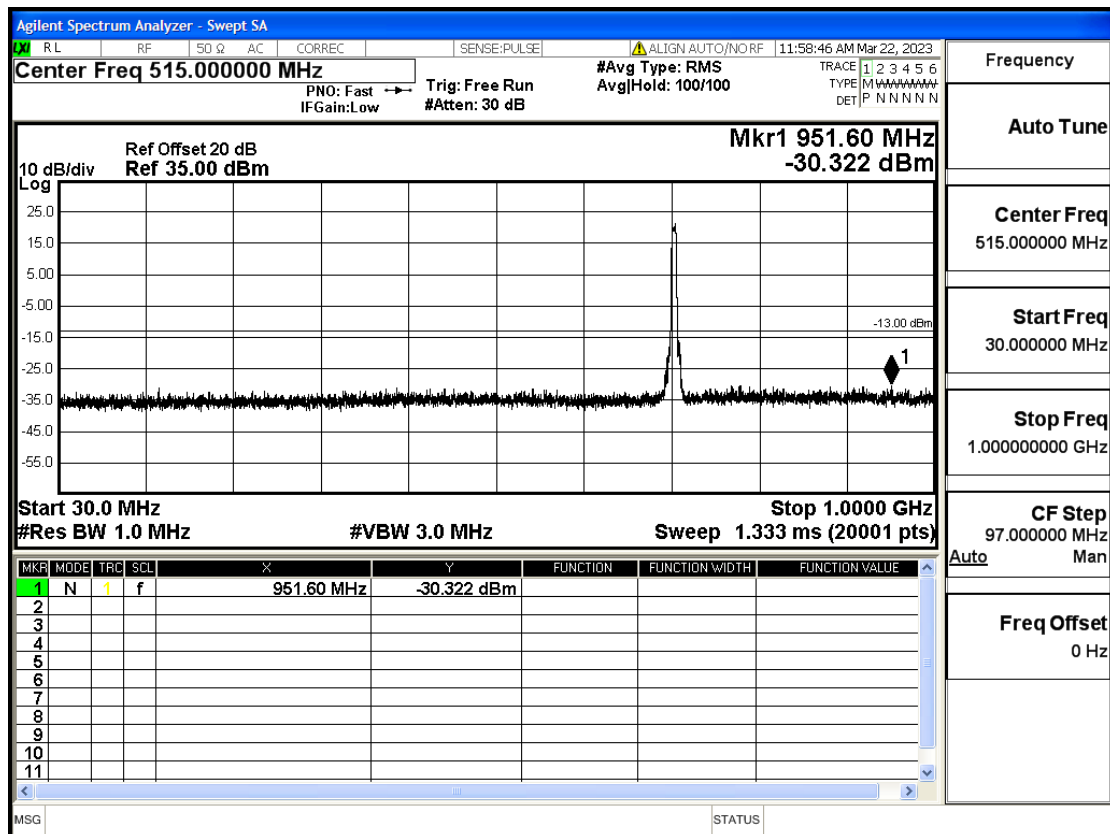
OB17-5-706.5-QPSK-25#LOW@30mHz-1GHz@Pass



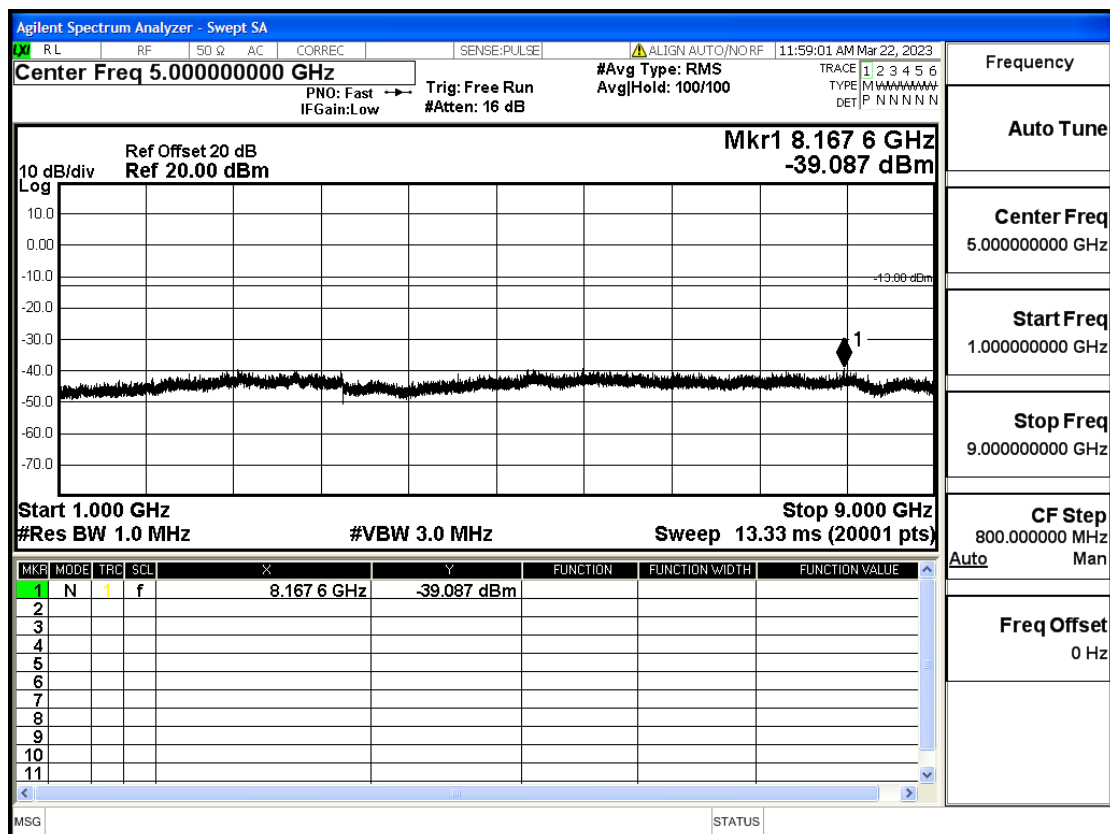
OB17-5-706.5-QPSK-25#LOW@1GHz-9GHz@Pass



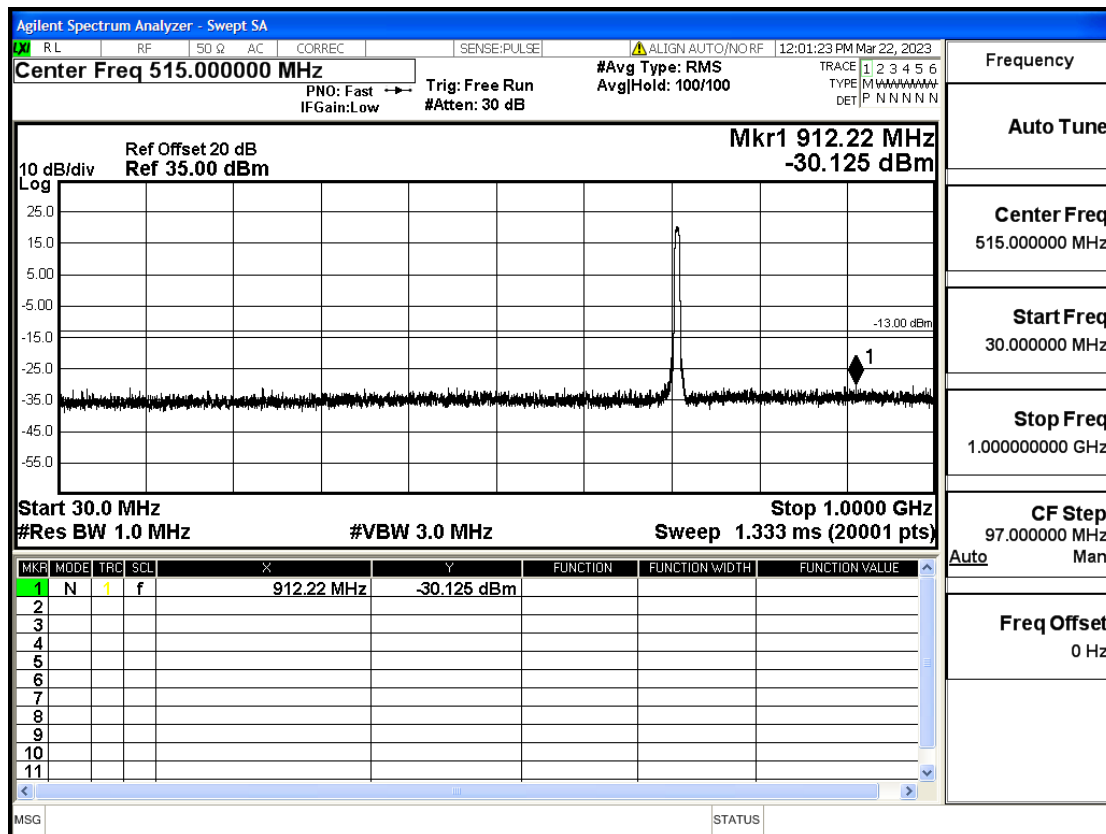
OB17-5-710-QPSK-25#LOW@30mHz-1GHz@Pass



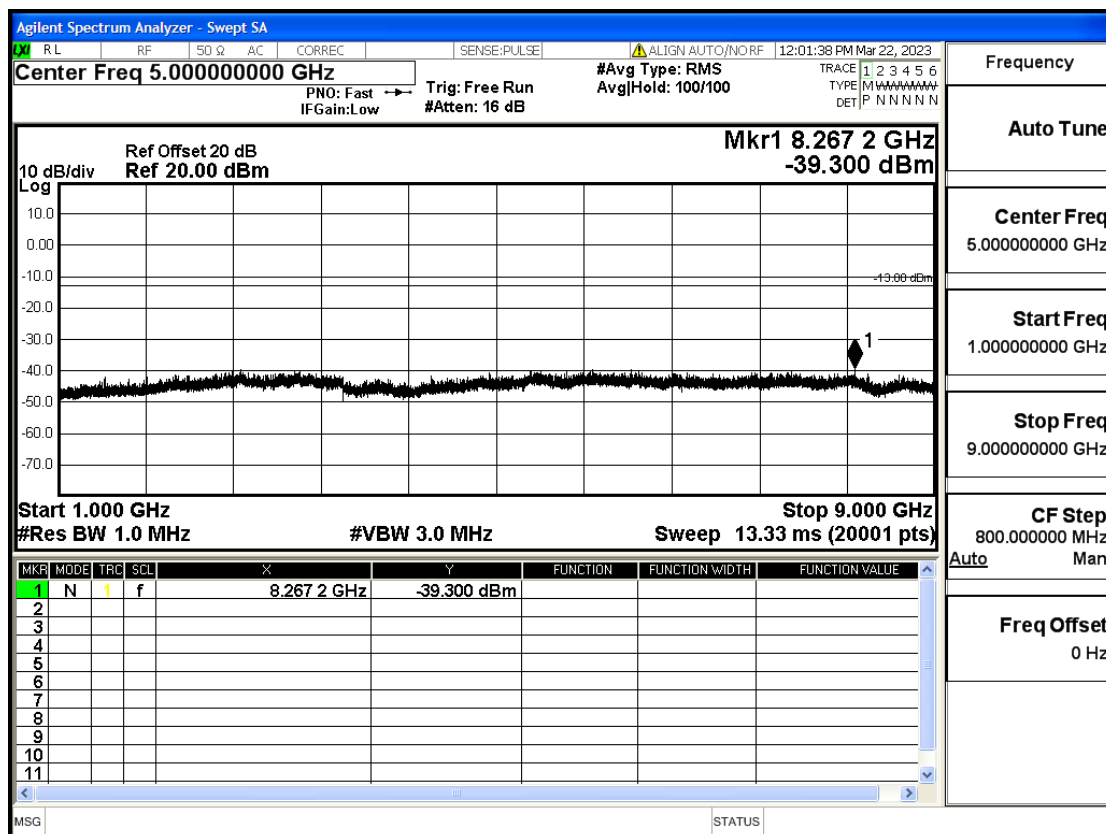
OB17-5-710-QPSK-25#LOW@1GHz-9GHz@Pass



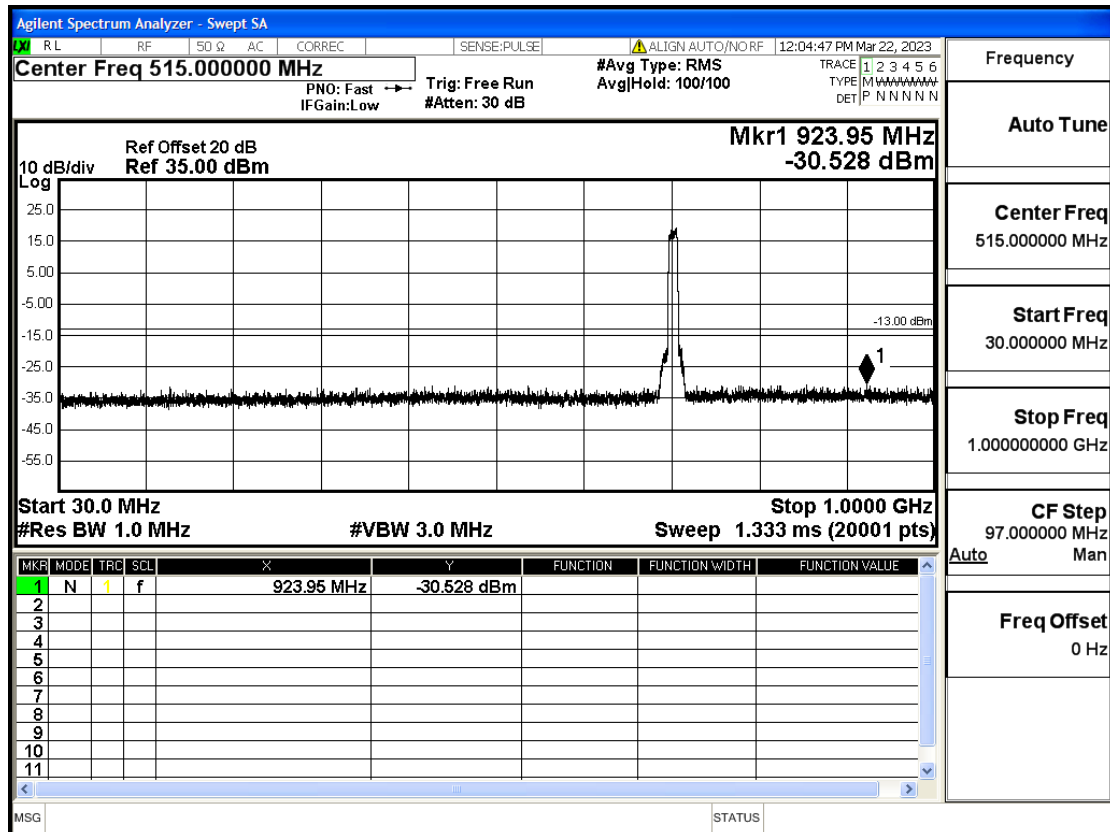
OB17-5-713.5-QPSK-25#LOW@30mHz-1GHz@Pass



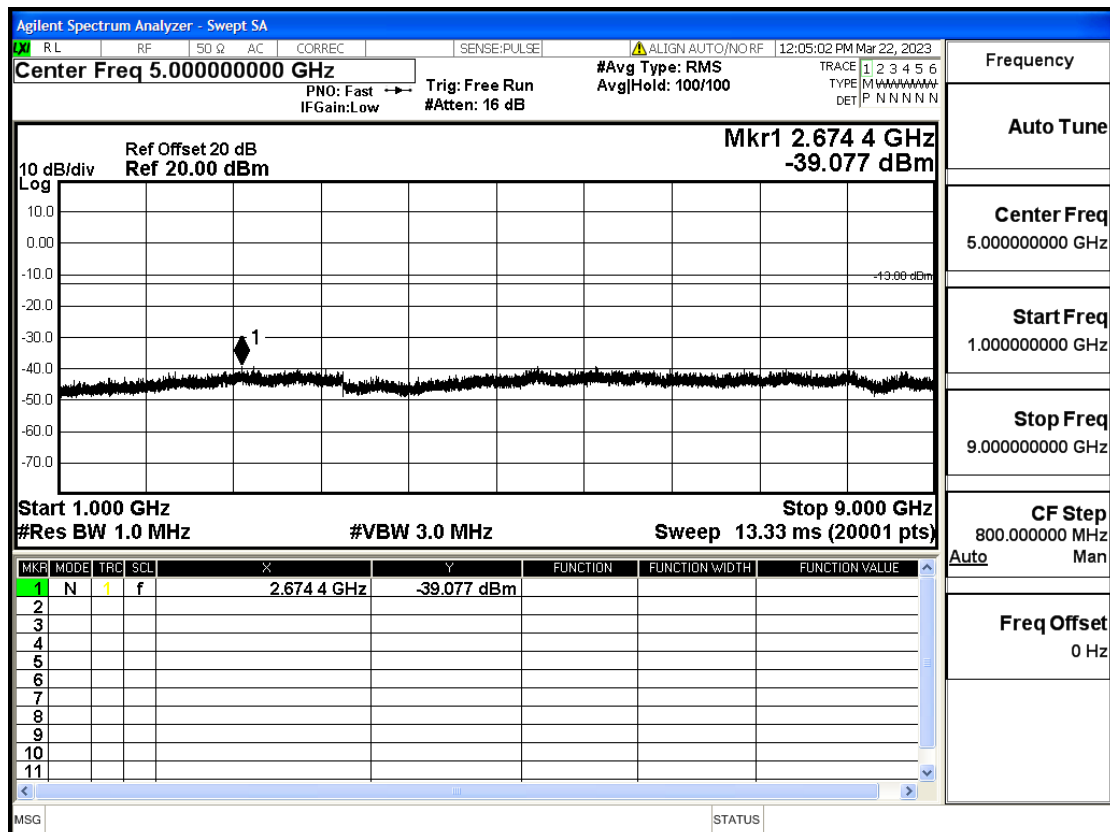
OB17-5-713.5-QPSK-25#LOW@1GHz-9GHz@Pass



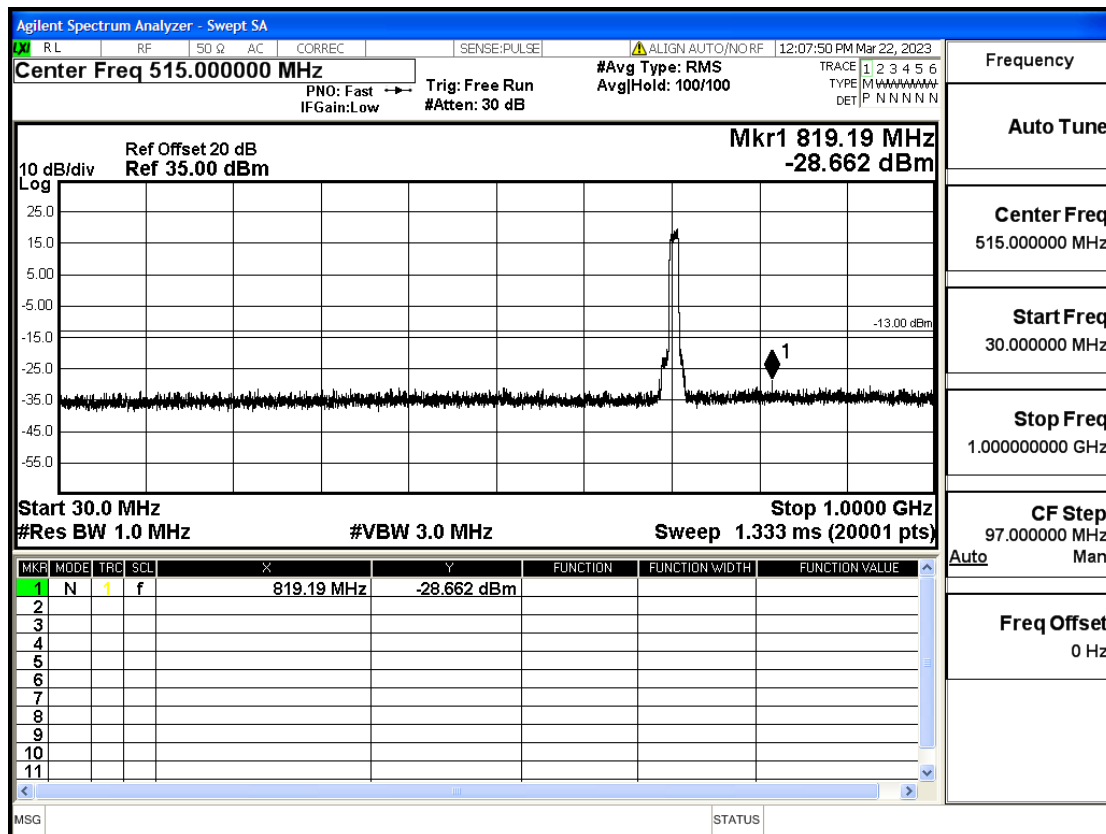
OB17-10-709-QPSK-50#LOW@30mHz-1GHz@Pass



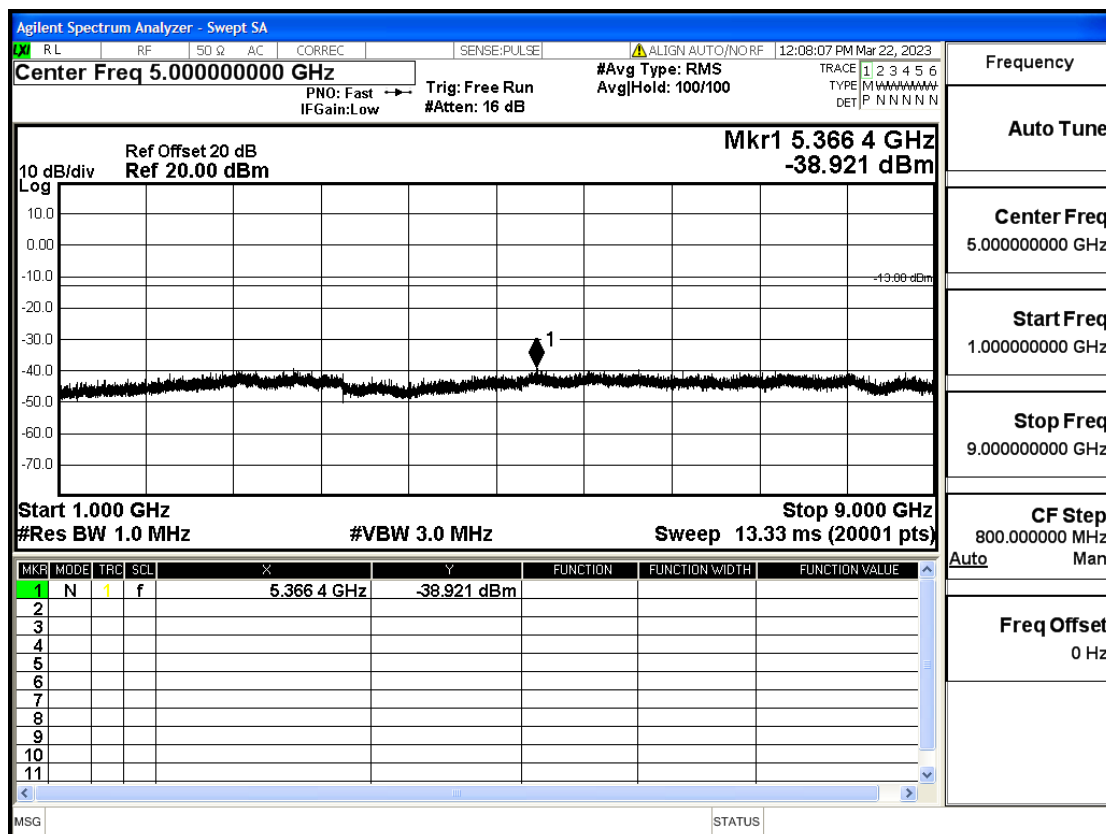
OB17-10-709-QPSK-50#LOW@1GHz-9GHz@Pass



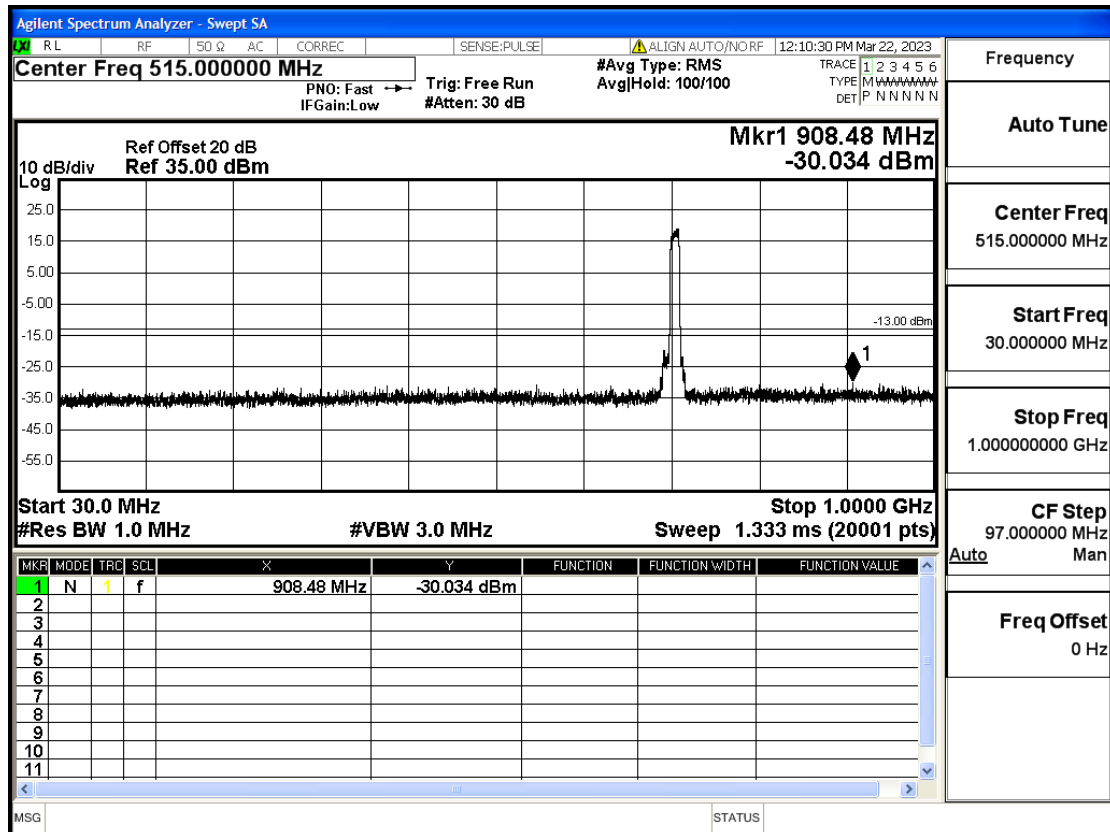
OB17-10-710-QPSK-50#LOW@30mHz-1GHz@Pass



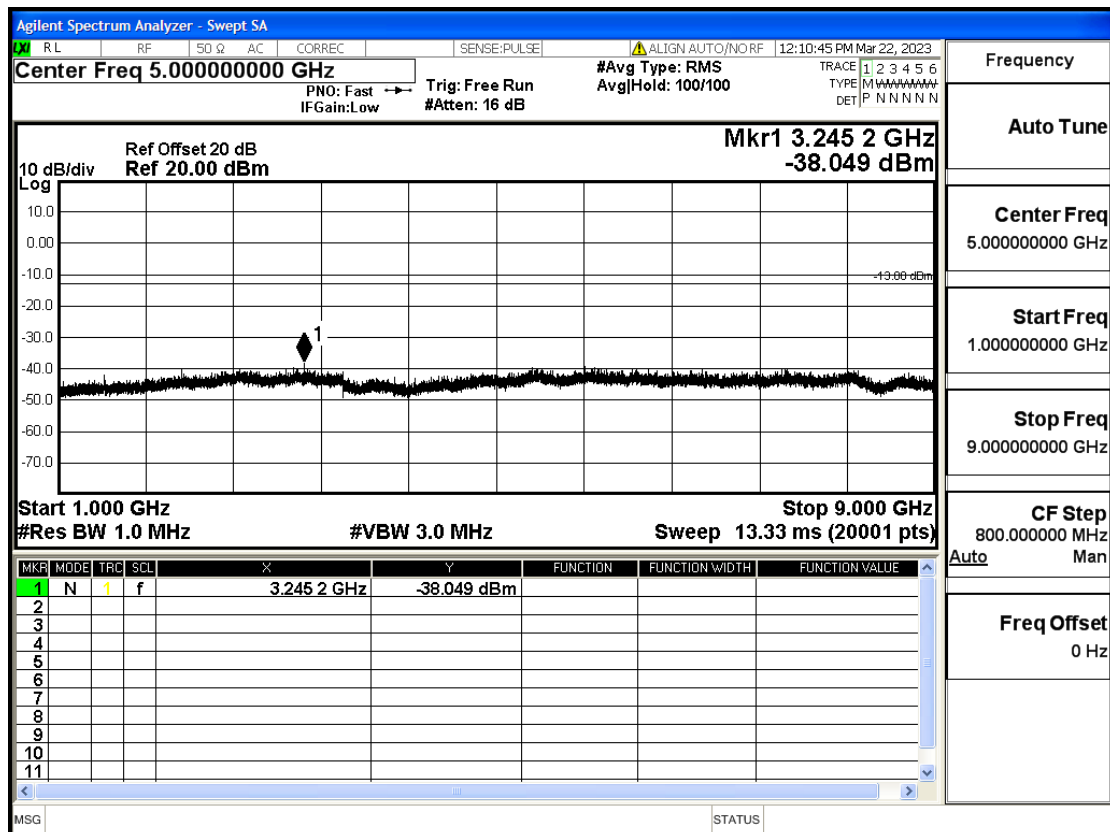
OB17-10-710-QPSK-50#LOW@1GHz-9GHz@Pass



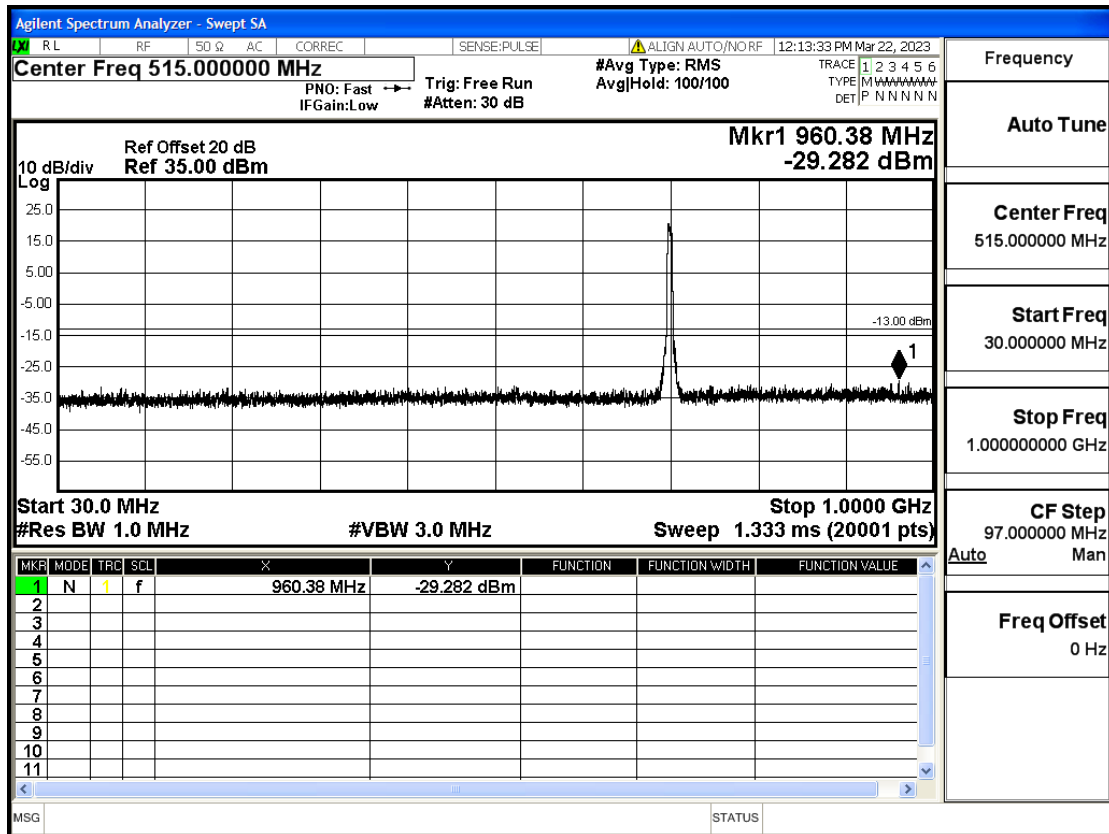
OB17-10-711-QPSK-50#LOW@30mHz-1GHz@Pass



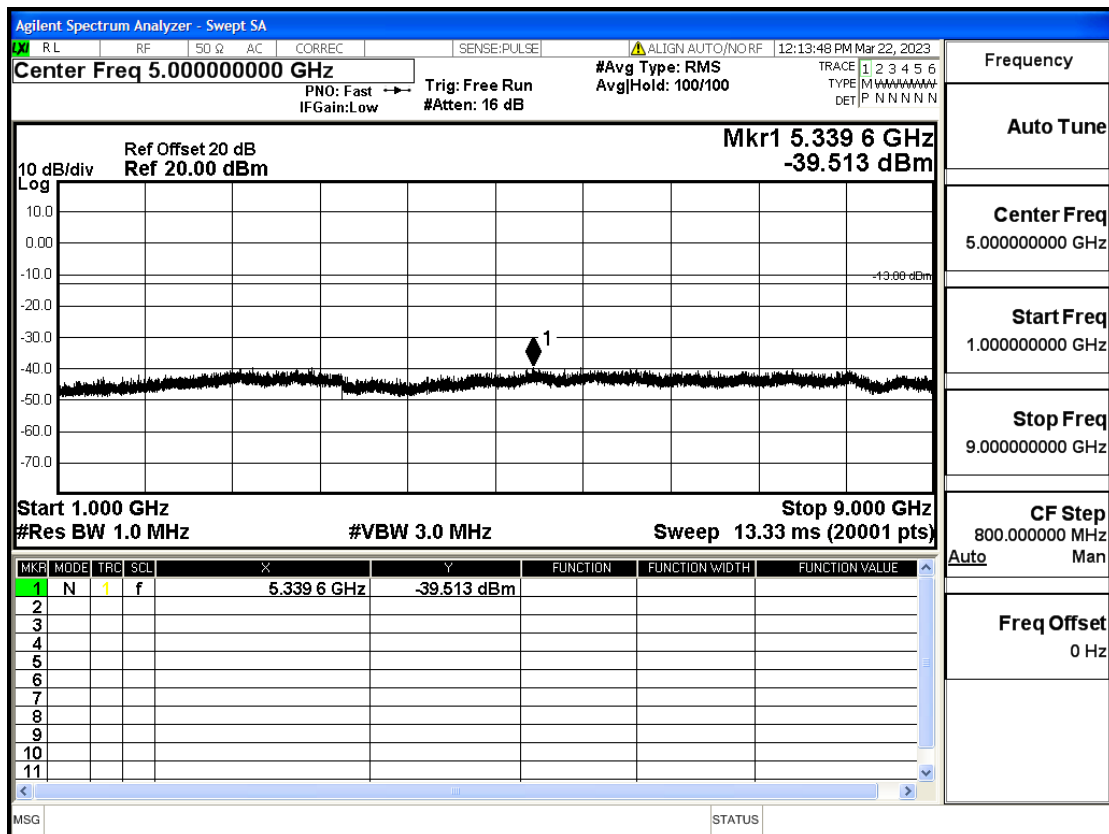
OB17-10-711-QPSK-50#LOW@1GHz-9GHz@Pass



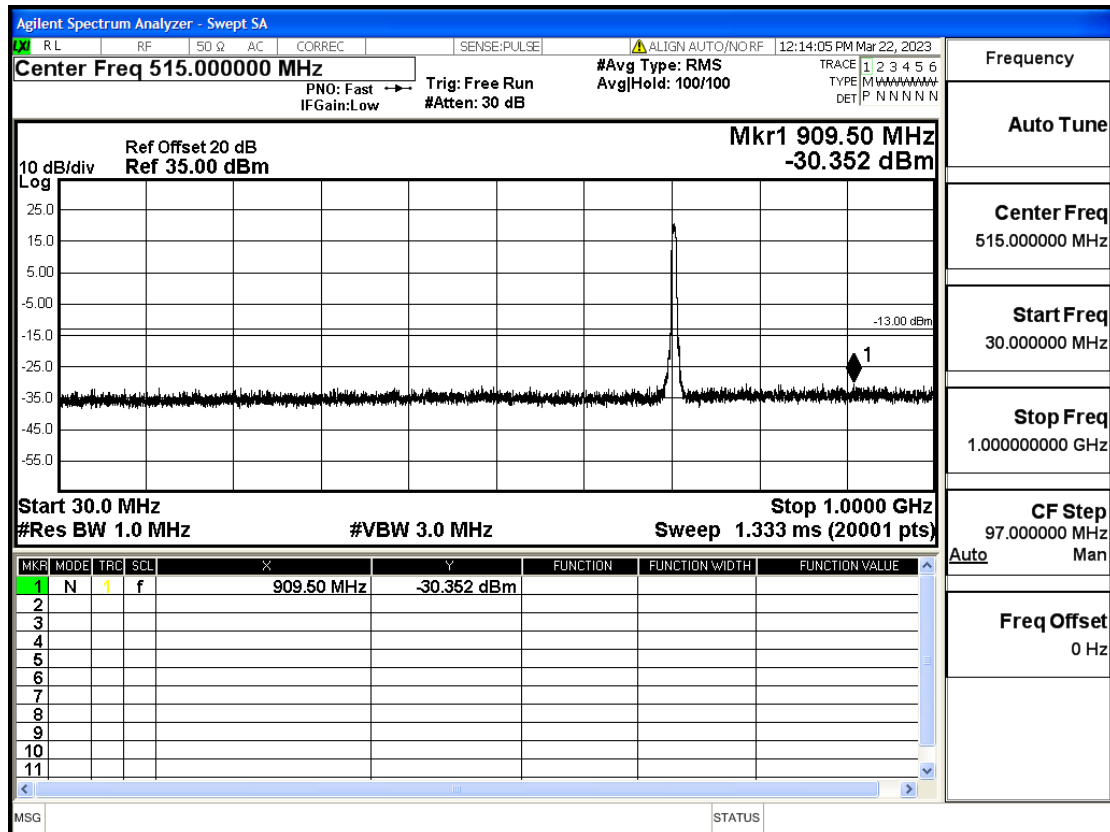
OB17-5-706.5-Q16-25#LOW@30mHz-1GHz@Pass



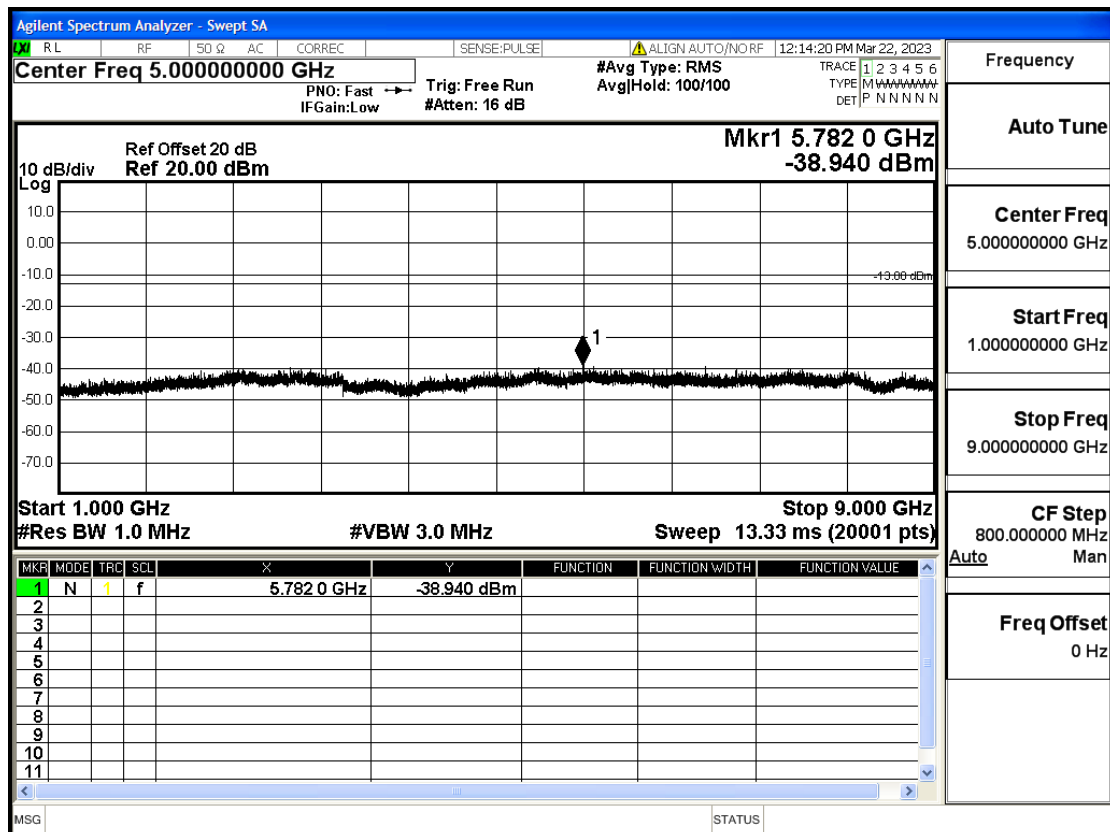
OB17-5-706.5-Q16-25#LOW@1GHz-9GHz@Pass



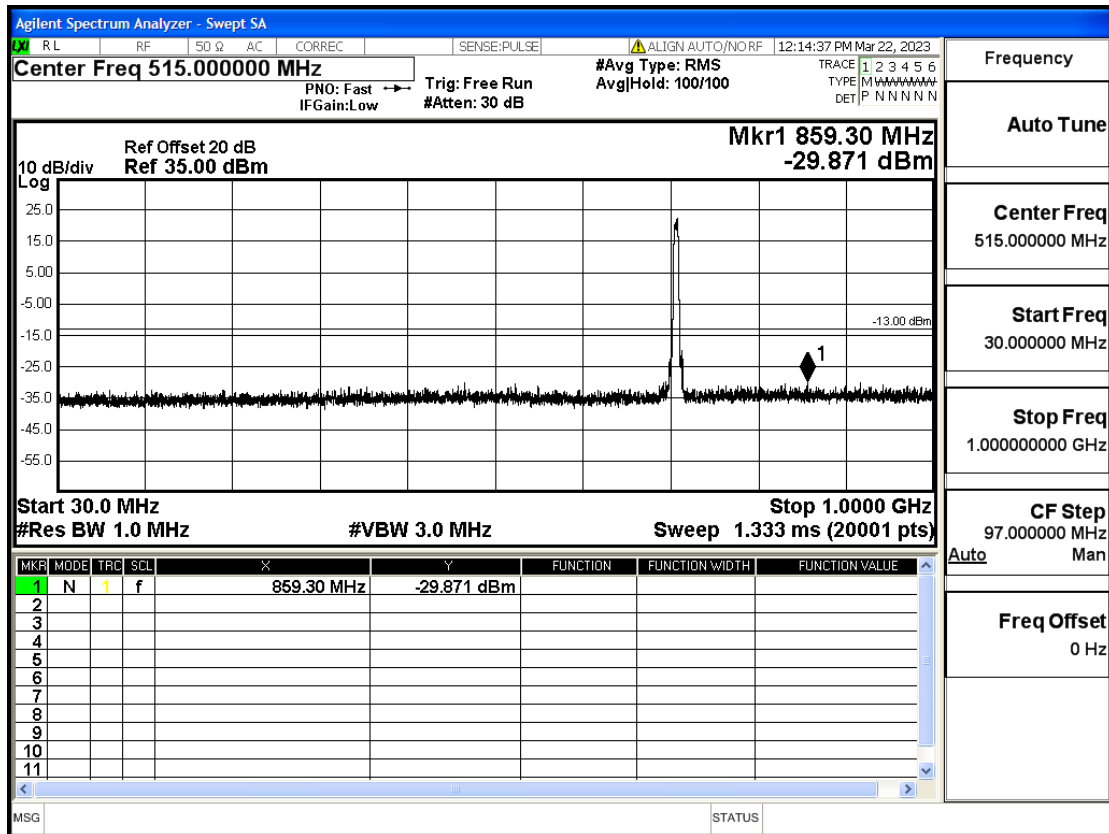
OB17-5-710-Q16-25#LOW@30mHz-1GHz@Pass



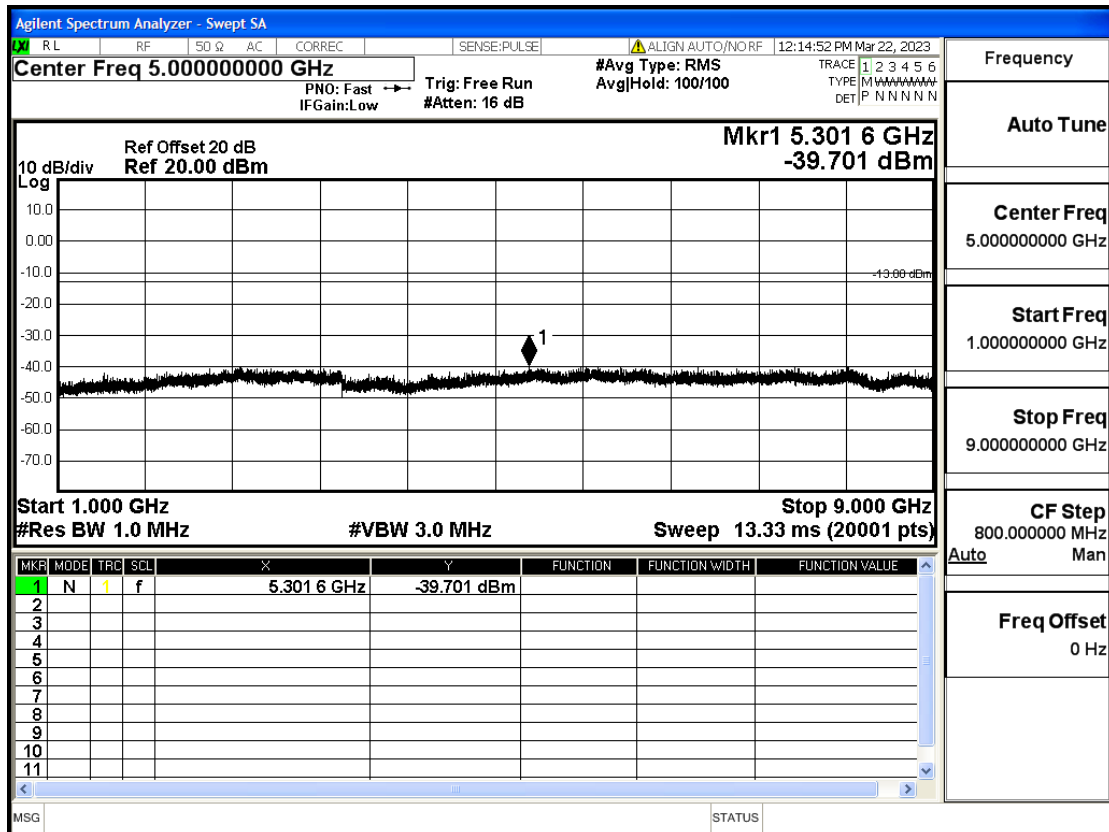
OB17-5-710-Q16-25#LOW@1GHz-9GHz@Pass



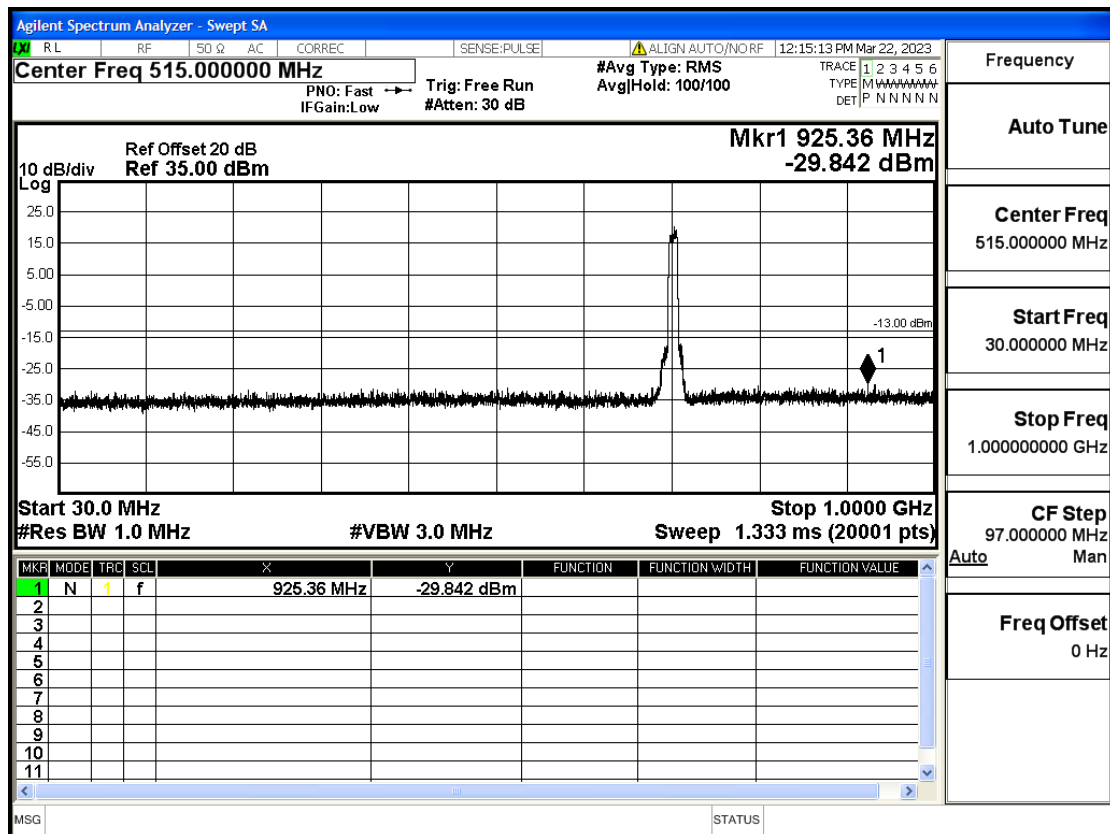
OB17-5-713.5-Q16-25#LOW@30mHz-1GHz@Pass



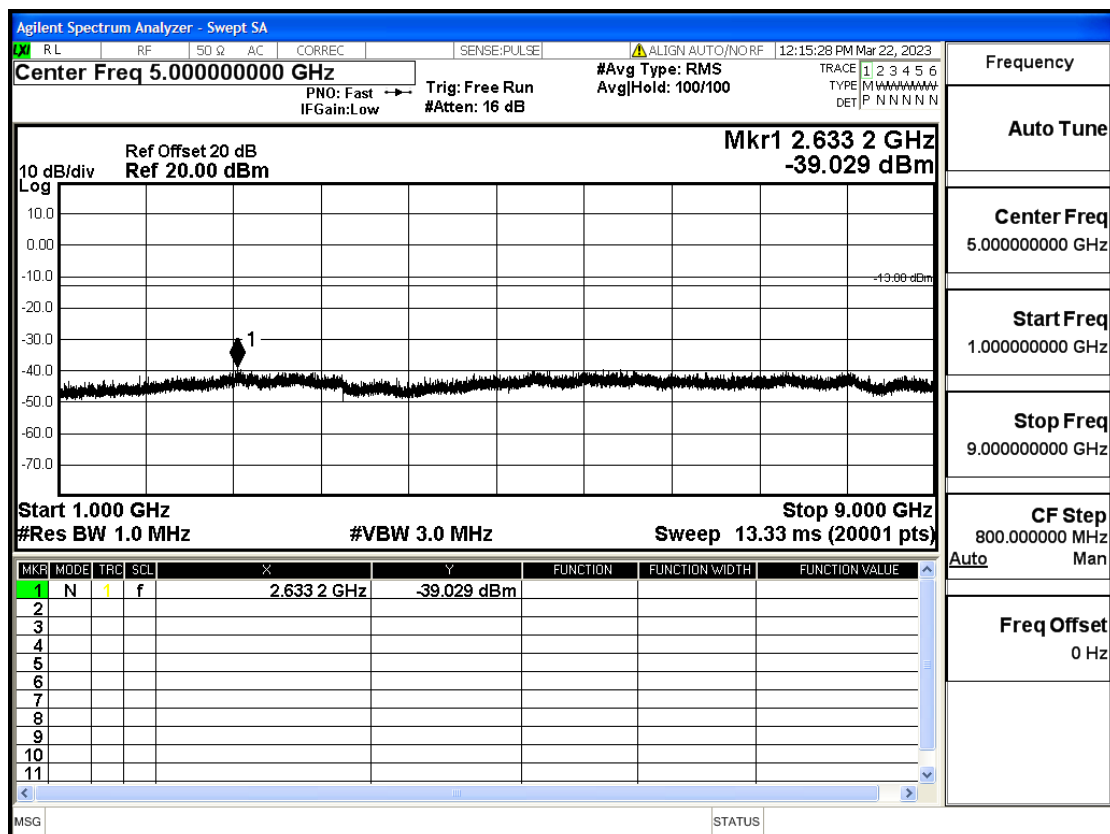
OB17-5-713.5-Q16-25#LOW@1GHz-9GHz@Pass



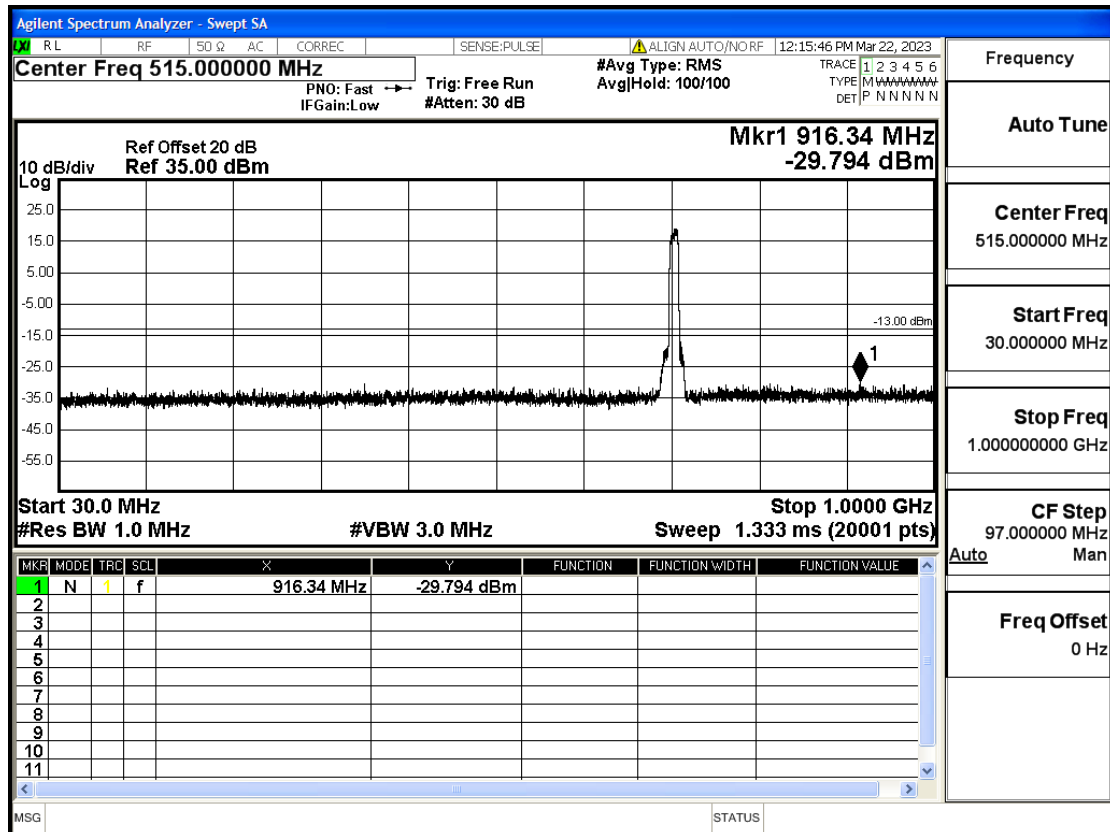
OB17-10-709-Q16-50#LOW@30mHz-1GHz@Pass



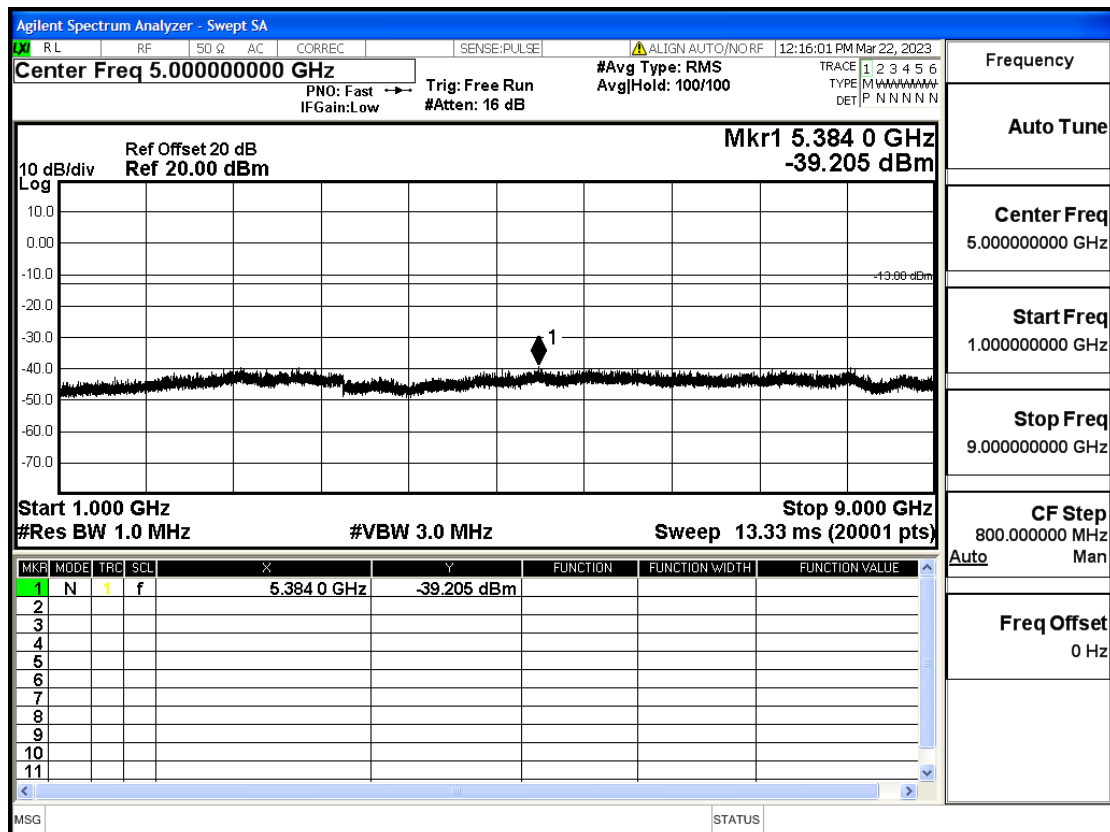
OB17-10-709-Q16-50#LOW@1GHz-9GHz@Pass



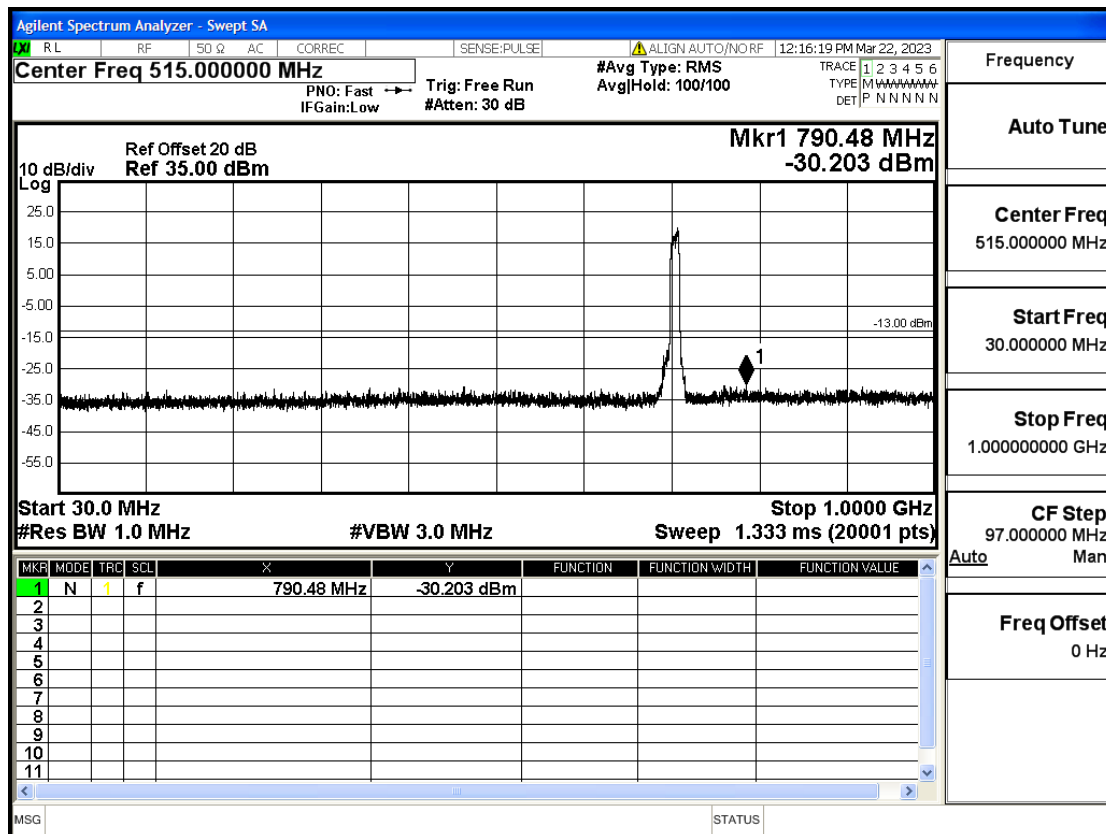
OB17-10-710-Q16-50#LOW@30mHz-1GHz@Pass



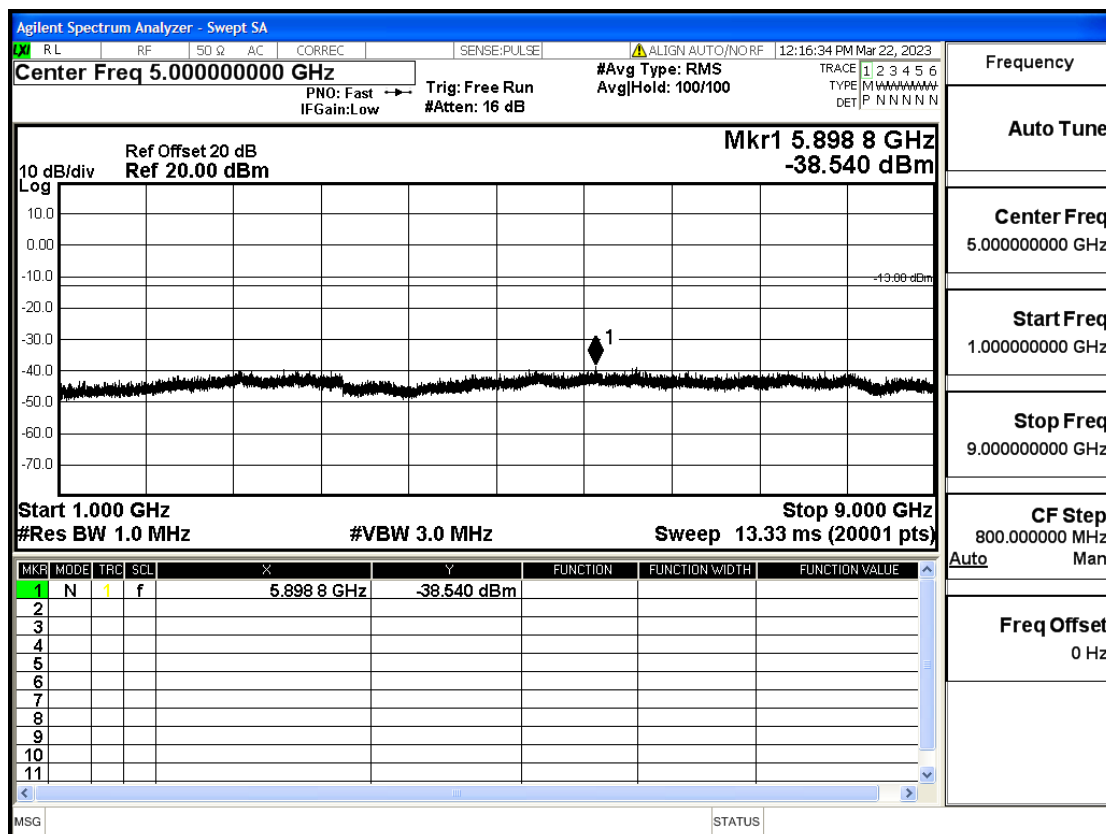
OB17-10-710-Q16-50#LOW@1GHz-9GHz@Pass



OB17-10-711-Q16-50#LOW@30mHz-1GHz@Pass



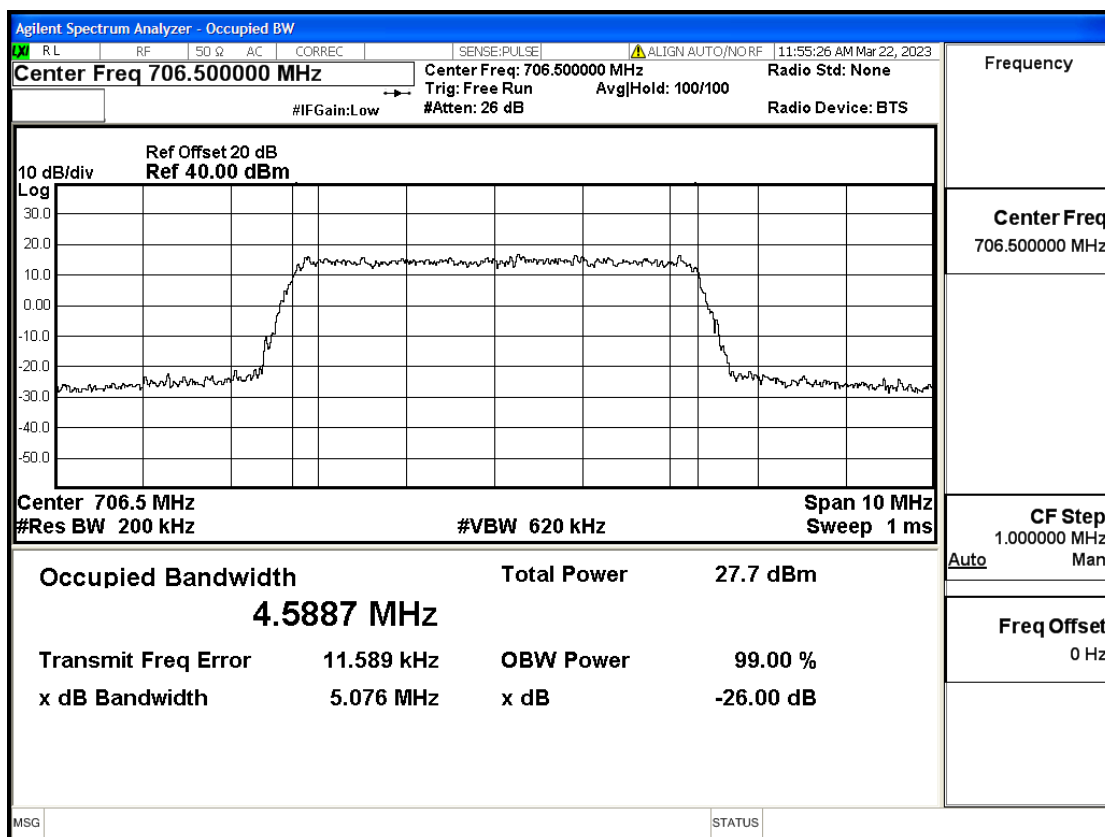
OB17-10-711-Q16-50#LOW@1GHz-9GHz@Pass



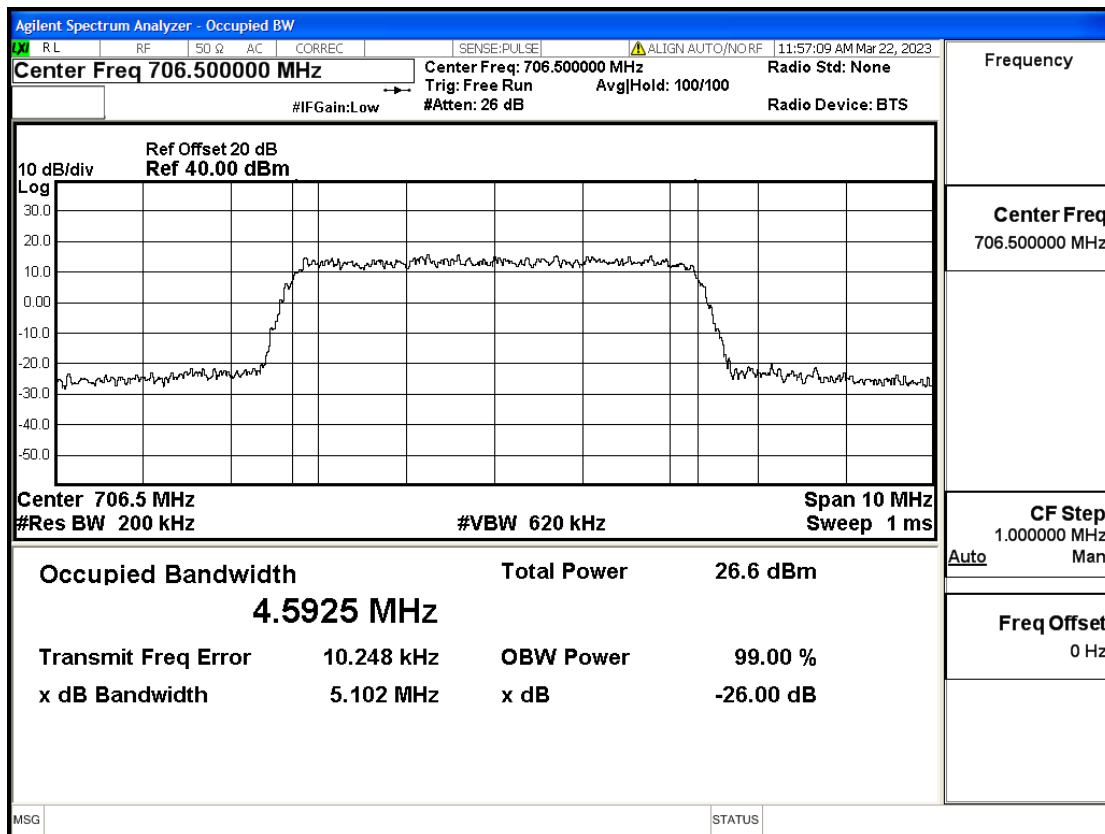
Emission bandwidth and OBW

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth(KHz)	Emission Bandwidth(KHz)	Limit
Band17	5	706.5	QPSK	25	LOW	4588.7	5076	No limit
Band17	5	706.5	16QAM	25	LOW	4592.5	5102	No limit
Band17	5	710	QPSK	25	LOW	4587.3	5115	No limit
Band17	5	710	16QAM	25	LOW	4578.1	5013	No limit
Band17	5	713.5	QPSK	25	LOW	4553.4	5060	No limit
Band17	5	713.5	16QAM	25	LOW	4547.9	5119	No limit
Band17	10	709	QPSK	50	LOW	9124.3	10020	No limit
Band17	10	709	16QAM	50	LOW	9083.4	10090	No limit
Band17	10	710	QPSK	50	LOW	9108.4	10150	No limit
Band17	10	710	16QAM	50	LOW	9112.7	10040	No limit
Band17	10	711	QPSK	50	LOW	9108.3	10040	No limit
Band17	10	711	16QAM	50	LOW	9094.9	10120	No limit

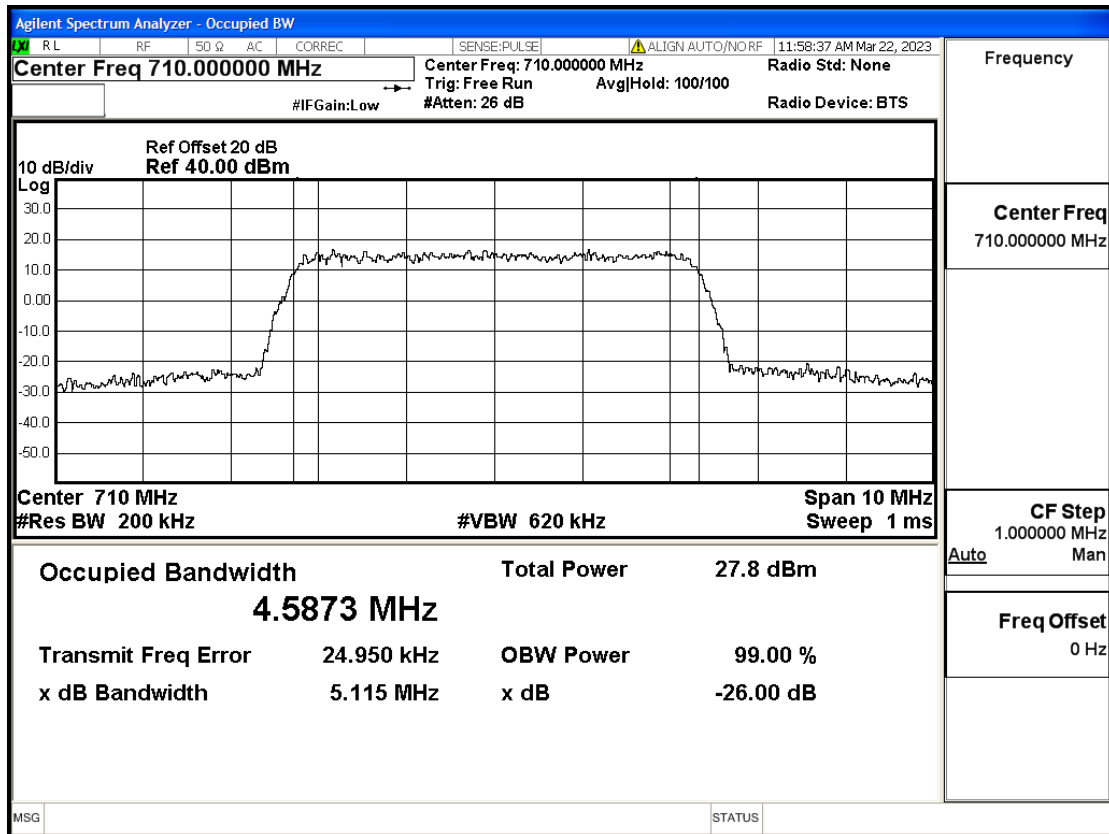
Band17-5-706.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



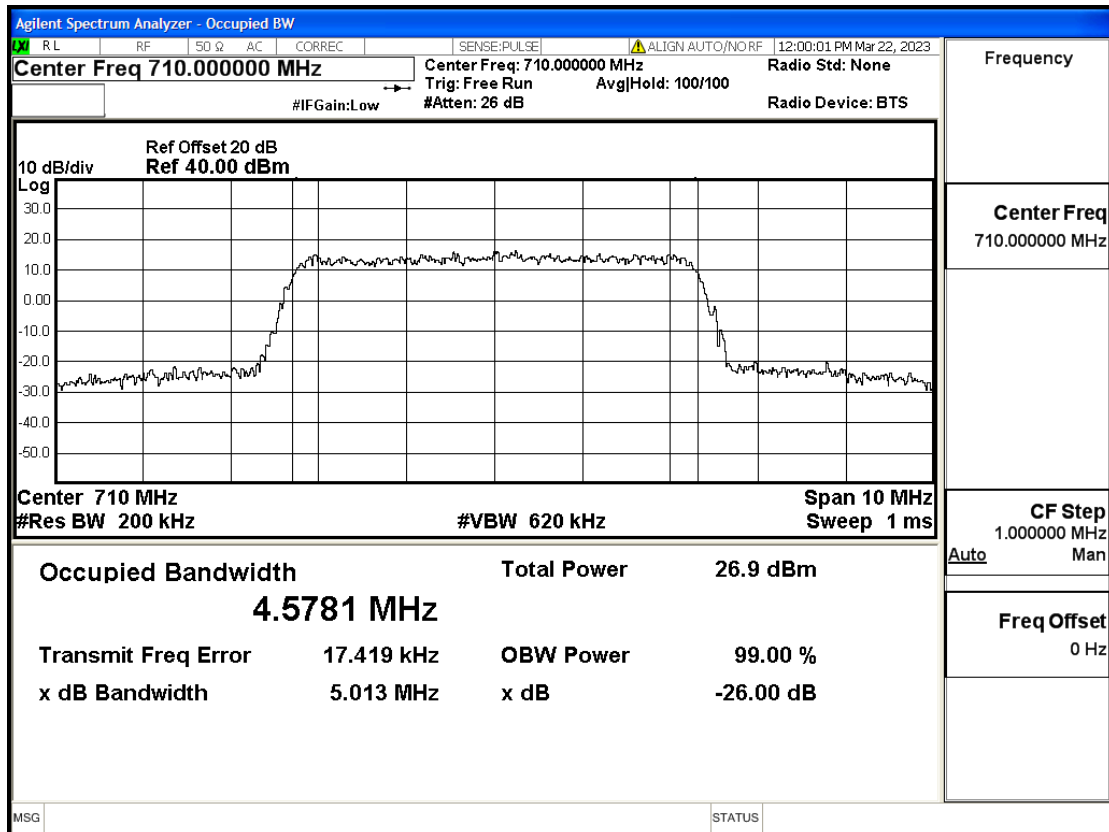
Band17-5-706.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



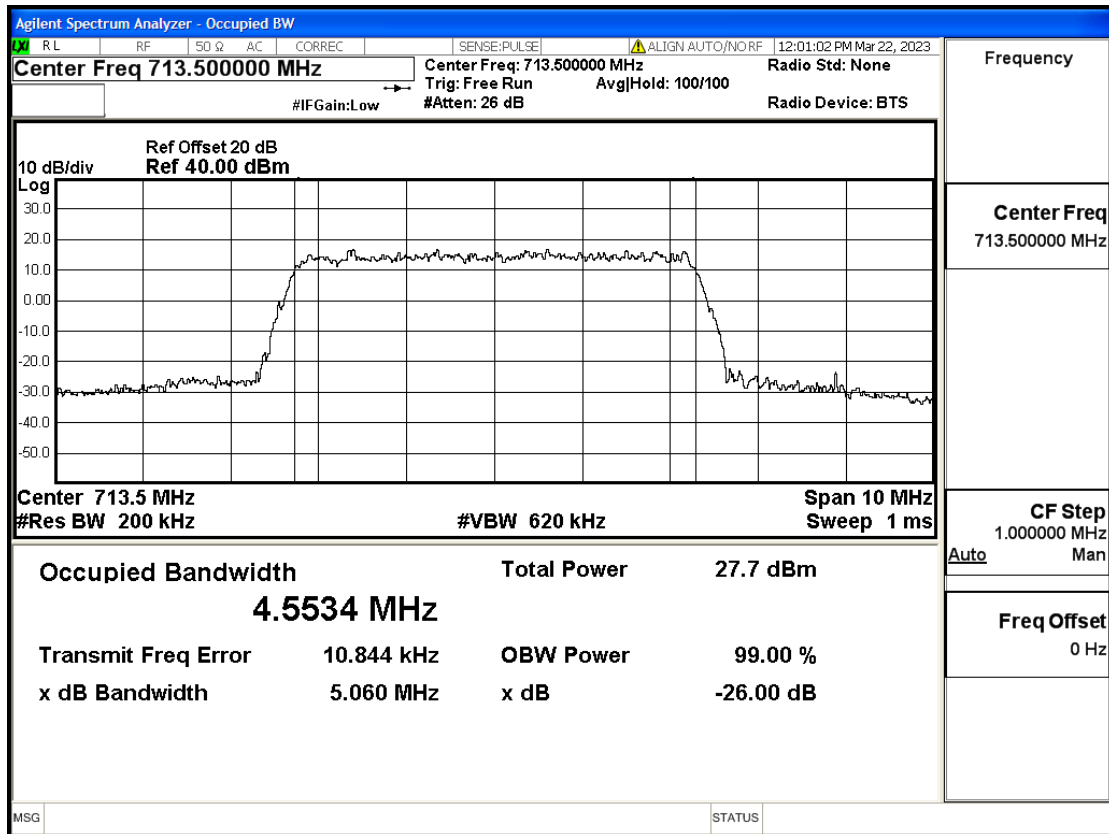
Band17-5-710-QPSK-25#LOW@26dB and 99PCT Bandwidth



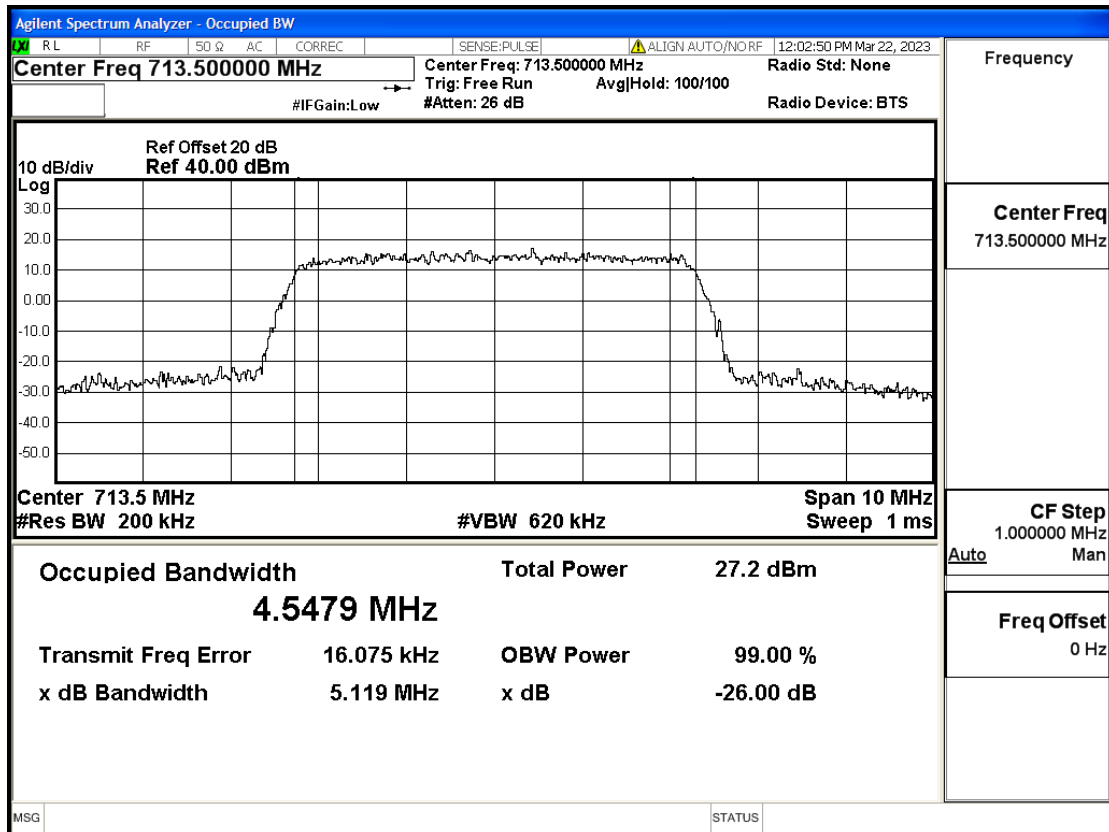
Band17-5-710-16QAM-25#LOW@26dB and 99PCT Bandwidth



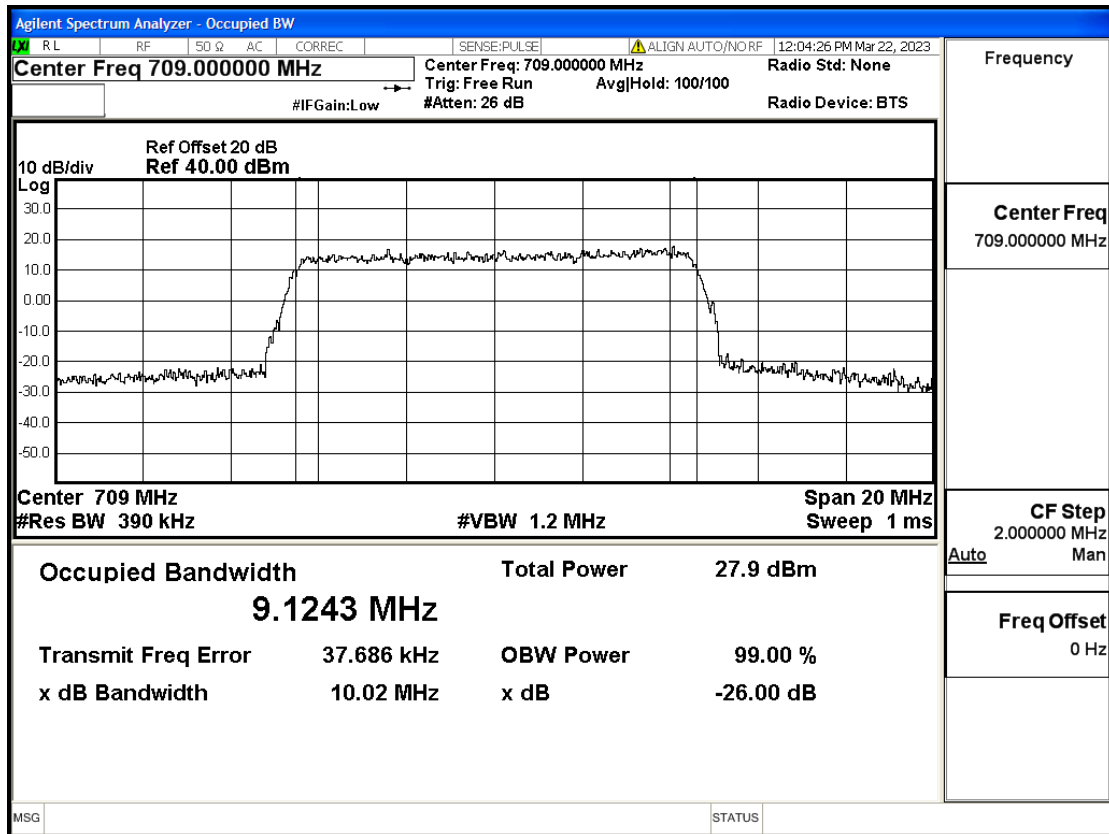
Band17-5-713.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



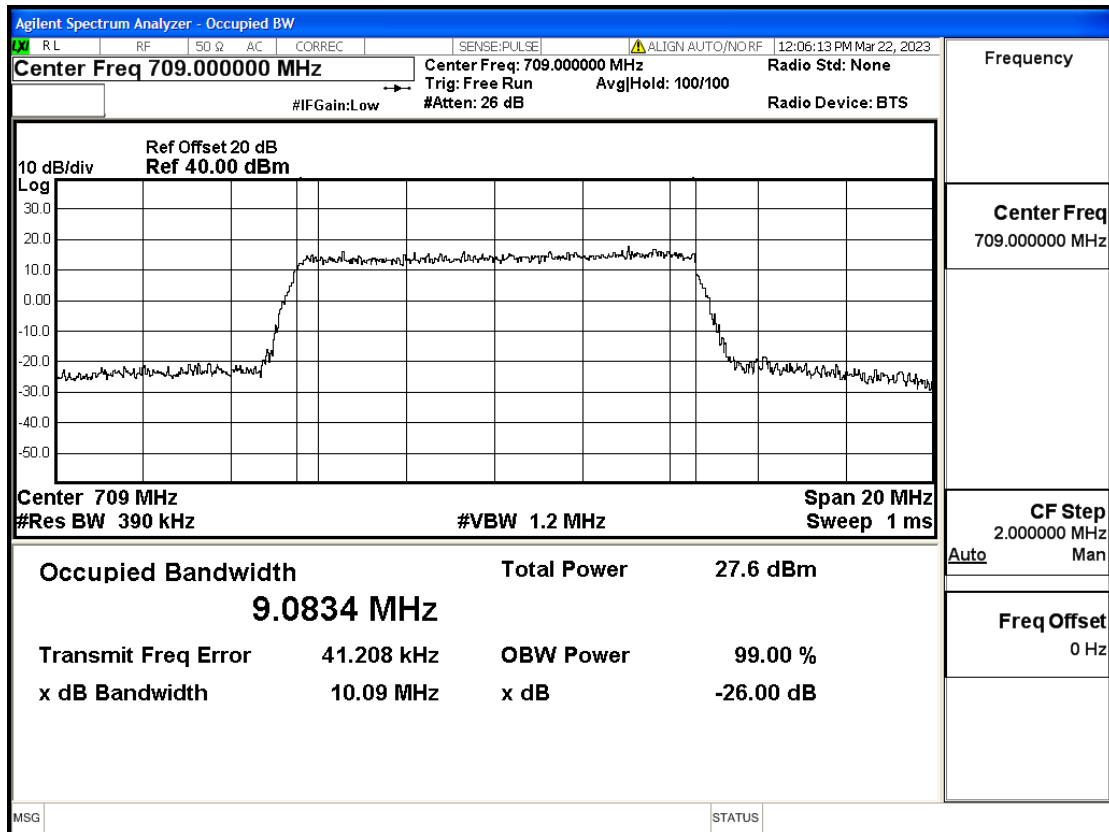
Band17-5-713.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



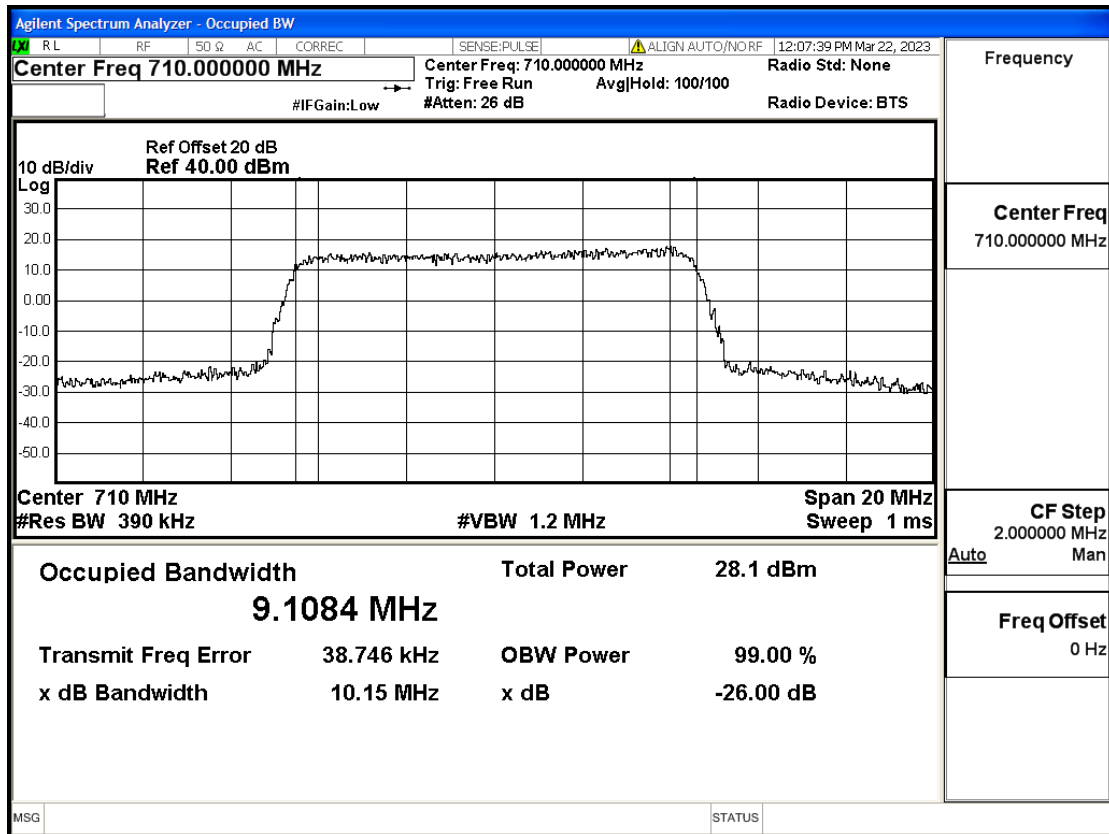
Band17-10-709-QPSK-50#LOW@26dB and 99PCT Bandwidth



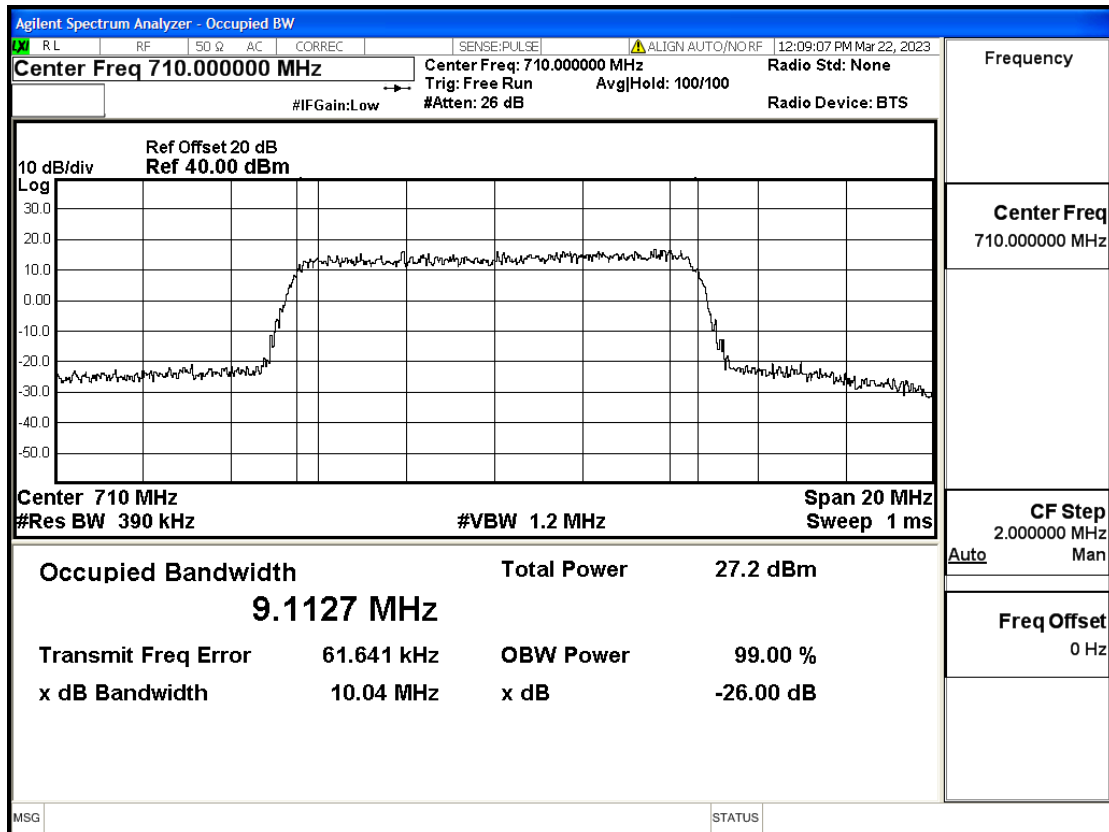
Band17-10-709-16QAM-50#LOW@26dB and 99PCT Bandwidth



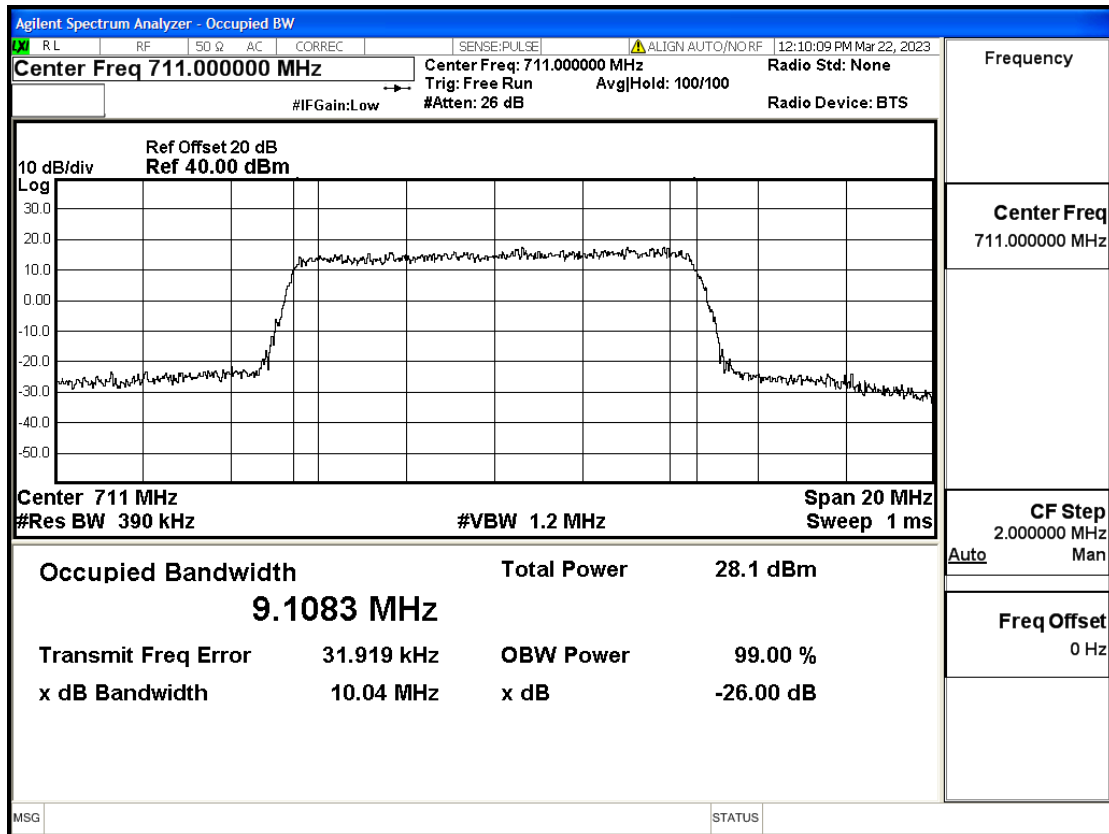
Band17-10-710-QPSK-50#LOW@26dB and 99PCT Bandwidth



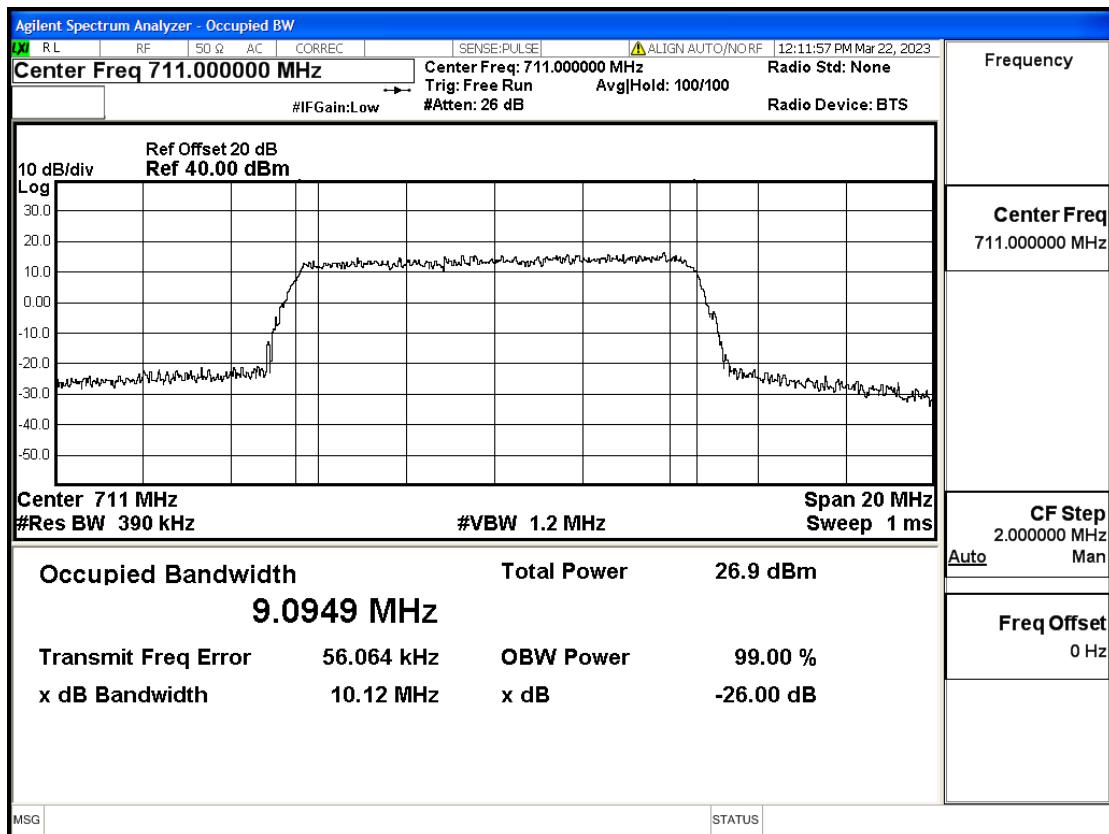
Band17-10-710-16QAM-50#LOW@26dB and 99PCT Bandwidth



Band17-10-711-QPSK-50#LOW@26dB and 99PCT Bandwidth



Band17-10-711-16QAM-50#LOW@26dB and 99PCT Bandwidth



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0653	PASS
40	Normal Voltage	0.0358	
30	Normal Voltage	0.0186	
20(Ref.)	Normal Voltage	0.0248	
10	Normal Voltage	0.0697	
0	Normal Voltage	0.0184	
-10	Normal Voltage	0.0444	
-20	Normal Voltage	0.0366	
-30	Normal Voltage	0.0180	
20	Maximum Voltage	0.0172	
20	Normal Voltage	0.0299	
20	Battery End Point	0.0662	

Peak and Average Power

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Average Power	Peak Power	Peak to Average(dB)	limit(dB)	AntGain(dBi)	ERP/EIRP(dBm)	Limit(dBm)	Conclusion
Band17	5	706.5	QPSK	25	LOW	22.21	28.7	6.49	13	-1.42	18.64	34.8	Pass
Band17	5	706.5	QPSK	12	LOW	22.26	28.45	6.19	13	-1.42	18.69	34.8	Pass
Band17	5	706.5	QPSK	12	MID	22.09	28.14	6.05	13	-1.42	18.52	34.8	Pass
Band17	5	706.5	QPSK	12	HIGH	22.13	28.13	6	13	-1.42	18.56	34.8	Pass
Band17	5	706.5	QPSK	1	LOW	22.87	28.6	5.73	13	-1.42	19.3	34.8	Pass
Band17	5	706.5	QPSK	1	MID	22.94	28.43	5.49	13	-1.42	19.37	34.8	Pass
Band17	5	706.5	QPSK	1	HIGH	22.95	28.25	5.3	13	-1.42	19.38	34.8	Pass
Band17	5	706.5	16QAM	25	LOW	20.91	28.28	7.37	13	-1.42	17.34	34.8	Pass
Band17	5	706.5	16QAM	12	LOW	20.83	27.88	7.05	13	-1.42	17.26	34.8	Pass
Band17	5	706.5	16QAM	12	MID	20.98	28.24	7.26	13	-1.42	17.41	34.8	Pass
Band17	5	706.5	16QAM	12	HIGH	21.63	28.47	6.84	13	-1.42	18.06	34.8	Pass
Band17	5	706.5	16QAM	1	LOW	22.06	28.6	6.54	13	-1.42	18.49	34.8	Pass
Band17	5	706.5	16QAM	1	MID	22.02	28.41	6.39	13	-1.42	18.45	34.8	Pass
Band17	5	706.5	16QAM	1	HIGH	21.99	28.28	6.29	13	-1.42	18.42	34.8	Pass
Band17	5	710	QPSK	25	LOW	22.15	28.5	6.35	13	-1.42	18.58	34.8	Pass
Band17	5	710	QPSK	12	LOW	22.06	28.2	6.14	13	-1.42	18.49	34.8	Pass
Band17	5	710	QPSK	12	MID	22.06	28.22	6.16	13	-1.42	18.49	34.8	Pass
Band17	5	710	QPSK	12	HIGH	21.84	27.93	6.09	13	-1.42	18.27	34.8	Pass
Band17	5	710	QPSK	1	LOW	23.33	29.29	5.96	13	-1.42	19.76	34.8	Pass
Band17	5	710	QPSK	1	MID	23.29	28.96	5.67	13	-1.42	19.72	34.8	Pass
Band17	5	710	QPSK	1	HIGH	23.12	28.58	5.46	13	-1.42	19.55	34.8	Pass
Band17	5	710	16QAM	25	LOW	21.03	29.33	8.3	13	-1.42	17.46	34.8	Pass
Band17	5	710	16QAM	12	LOW	21.63	28.71	7.08	13	-1.42	18.06	34.8	Pass
Band17	5	710	16QAM	12	MID	21.64	28.87	7.23	13	-1.42	18.07	34.8	Pass
Band17	5	710	16QAM	12	HIGH	20.99	28.45	7.46	13	-1.42	17.42	34.8	Pass
Band17	5	710	16QAM	1	LOW	21.46	27.33	5.87	13	-1.42	17.89	34.8	Pass
Band17	5	710	16QAM	1	MID	21.47	27.28	5.81	13	-1.42	17.9	34.8	Pass
Band17	5	710	16QAM	1	HIGH	21.15	27.05	5.9	13	-1.42	17.58	34.8	Pass
Band17	5	713.5	QPSK	25	LOW	21.92	28.21	6.29	13	-1.42	18.35	34.8	Pass
Band17	5	713.5	QPSK	12	LOW	21.78	28.36	6.58	13	-1.42	18.21	34.8	Pass
Band17	5	713.5	QPSK	12	MID	21.77	28.37	6.6	13	-1.42	18.2	34.8	Pass
Band17	5	713.5	QPSK	12	HIGH	22.03	28.61	6.58	13	-1.42	18.46	34.8	Pass
Band17	5	713.5	QPSK	1	LOW	23.1	28.69	5.59	13	-1.42	19.53	34.8	Pass
Band17	5	713.5	QPSK	1	MID	23.15	28.06	4.91	13	-1.42	19.58	34.8	Pass
Band17	5	713.5	QPSK	1	HIGH	23.32	28.26	4.94	13	-1.42	19.75	34.8	Pass
Band17	5	713.5	16QAM	25	LOW	21.62	28.98	7.36	13	-1.42	18.05	34.8	Pass
Band17	5	713.5	16QAM	12	LOW	20.89	27.78	6.89	13	-1.42	17.32	34.8	Pass
Band17	5	713.5	16QAM	12	MID	20.89	27.66	6.77	13	-1.42	17.32	34.8	Pass
Band17	5	713.5	16QAM	12	HIGH	21.56	28.2	6.64	13	-1.42	17.99	34.8	Pass
Band17	5	713.5	16QAM	1	LOW	21.84	27.7	5.86	13	-1.42	18.27	34.8	Pass

Band17	5	713.5	16QAM	1	MID	22.03	27.81	5.78	13	-1.42	18.46	34.8	Pass
Band17	5	713.5	16QAM	1	HIGH	22.05	27.94	5.89	13	-1.42	18.48	34.8	Pass
Band17	10	709	QPSK	50	LOW	22.14	28.78	6.64	13	-1.42	18.57	34.8	Pass
Band17	10	709	QPSK	25	LOW	22.12	28.62	6.5	13	-1.42	18.55	34.8	Pass
Band17	10	709	QPSK	25	MID	22.1	28.6	6.5	13	-1.42	18.53	34.8	Pass
Band17	10	709	QPSK	25	HIGH	21.83	28.31	6.48	13	-1.42	18.26	34.8	Pass
Band17	10	709	QPSK	1	LOW	22.94	28.18	5.24	13	-1.42	19.37	34.8	Pass
Band17	10	709	QPSK	1	MID	23.09	27.92	4.83	13	-1.42	19.52	34.8	Pass
Band17	10	709	QPSK	1	HIGH	23	27.88	4.88	13	-1.42	19.43	34.8	Pass
Band17	10	709	16QAM	50	LOW	21.54	29.35	7.81	13	-1.42	17.97	34.8	Pass
Band17	10	709	16QAM	25	LOW	20.91	28.52	7.61	13	-1.42	17.34	34.8	Pass
Band17	10	709	16QAM	25	MID	20.91	28.52	7.61	13	-1.42	17.34	34.8	Pass
Band17	10	709	16QAM	25	HIGH	21.39	28.54	7.15	13	-1.42	17.82	34.8	Pass
Band17	10	709	16QAM	1	LOW	22.35	28.97	6.62	13	-1.42	18.78	34.8	Pass
Band17	10	709	16QAM	1	MID	22.56	28.67	6.11	13	-1.42	18.99	34.8	Pass
Band17	10	709	16QAM	1	HIGH	22.38	28.45	6.07	13	-1.42	18.81	34.8	Pass
Band17	10	710	QPSK	50	LOW	22.17	28.64	6.47	13	-1.42	18.6	34.8	Pass
Band17	10	710	QPSK	25	LOW	22.13	28.49	6.36	13	-1.42	18.56	34.8	Pass
Band17	10	710	QPSK	25	MID	22.11	28.52	6.41	13	-1.42	18.54	34.8	Pass
Band17	10	710	QPSK	25	HIGH	21.83	27.97	6.14	13	-1.42	18.26	34.8	Pass
Band17	10	710	QPSK	1	LOW	23.03	28.51	5.48	13	-1.42	19.46	34.8	Pass
Band17	10	710	QPSK	1	MID	23.37	28.28	4.91	13	-1.42	19.8	34.8	Pass
Band17	10	710	QPSK	1	HIGH	23.11	28.25	5.14	13	-1.42	19.54	34.8	Pass
Band17	10	710	16QAM	50	LOW	21.34	28.23	6.89	13	-1.42	17.77	34.8	Pass
Band17	10	710	16QAM	25	LOW	21.71	29.14	7.43	13	-1.42	18.14	34.8	Pass
Band17	10	710	16QAM	25	MID	21.7	29.12	7.42	13	-1.42	18.13	34.8	Pass
Band17	10	710	16QAM	25	HIGH	21.07	28.51	7.44	13	-1.42	17.5	34.8	Pass
Band17	10	710	16QAM	1	LOW	22.88	28.77	5.89	13	-1.42	19.31	34.8	Pass
Band17	10	710	16QAM	1	MID	23.03	27.77	4.74	13	-1.42	19.46	34.8	Pass
Band17	10	710	16QAM	1	HIGH	22.72	27.87	5.15	13	-1.42	19.15	34.8	Pass
Band17	10	711	QPSK	50	LOW	22.17	28.32	6.15	13	-1.42	18.6	34.8	Pass
Band17	10	711	QPSK	25	LOW	22.02	28.92	6.9	13	-1.42	18.45	34.8	Pass
Band17	10	711	QPSK	25	MID	22.01	28.85	6.84	13	-1.42	18.44	34.8	Pass
Band17	10	711	QPSK	25	HIGH	22	28.68	6.68	13	-1.42	18.43	34.8	Pass
Band17	10	711	QPSK	1	LOW	23	28.31	5.31	13	-1.42	19.43	34.8	Pass
Band17	10	711	QPSK	1	MID	23.11	28.06	4.95	13	-1.42	19.54	34.8	Pass
Band17	10	711	QPSK	1	HIGH	23.35	28.35	5	13	-1.42	19.78	34.8	Pass
Band17	10	711	16QAM	50	LOW	21.23	29	7.77	13	-1.42	17.66	34.8	Pass
Band17	10	711	16QAM	25	LOW	21.78	28.89	7.11	13	-1.42	18.21	34.8	Pass
Band17	10	711	16QAM	25	MID	21.77	28.88	7.11	13	-1.42	18.2	34.8	Pass
Band17	10	711	16QAM	25	HIGH	21.81	28.79	6.98	13	-1.42	18.24	34.8	Pass
Band17	10	711	16QAM	1	LOW	21.91	27.33	5.42	13	-1.42	18.34	34.8	Pass
Band17	10	711	16QAM	1	MID	21.9	27.11	5.21	13	-1.42	18.33	34.8	Pass
Band17	10	711	16QAM	1	HIGH	21.87	27.26	5.39	13	-1.42	18.3	34.8	Pass