

Appendix Test Data(Conducted) for LTE Band17

Product Name: FH Emergency Medical Device - V1-4G

Trade Mark: FastHelp

Test Model: FH-V1-4G

FCC ID: 2AJG4-FH-V1-4G

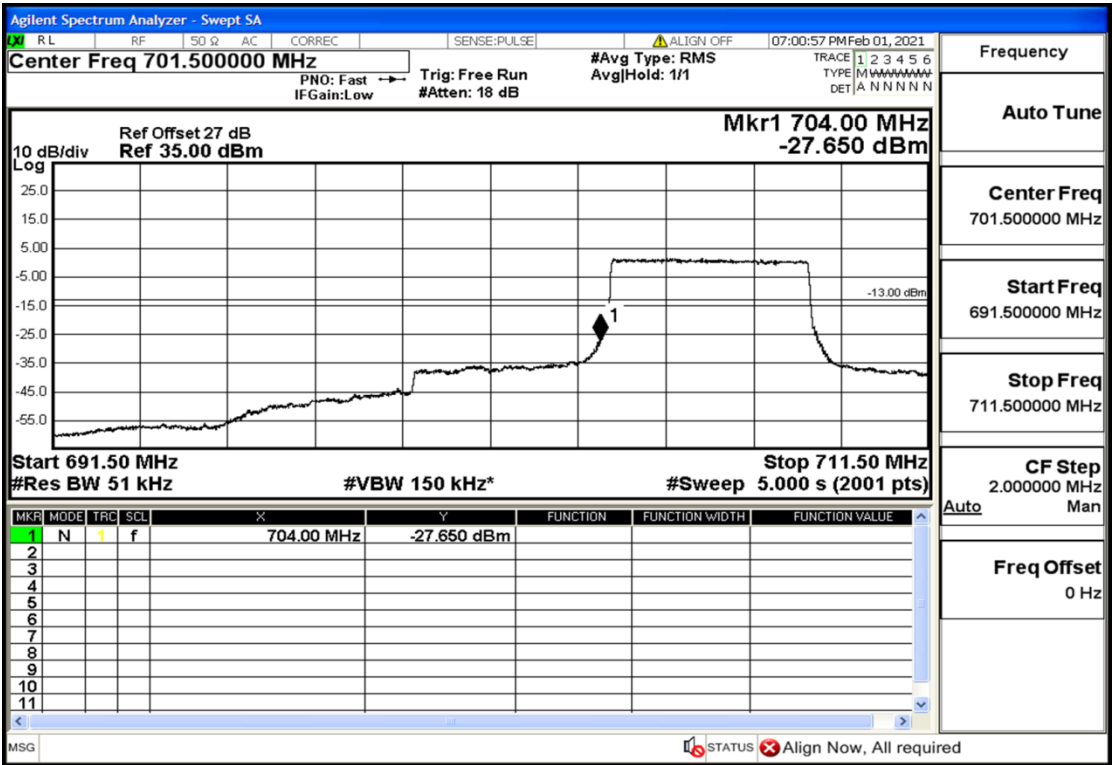
Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	For Band 17

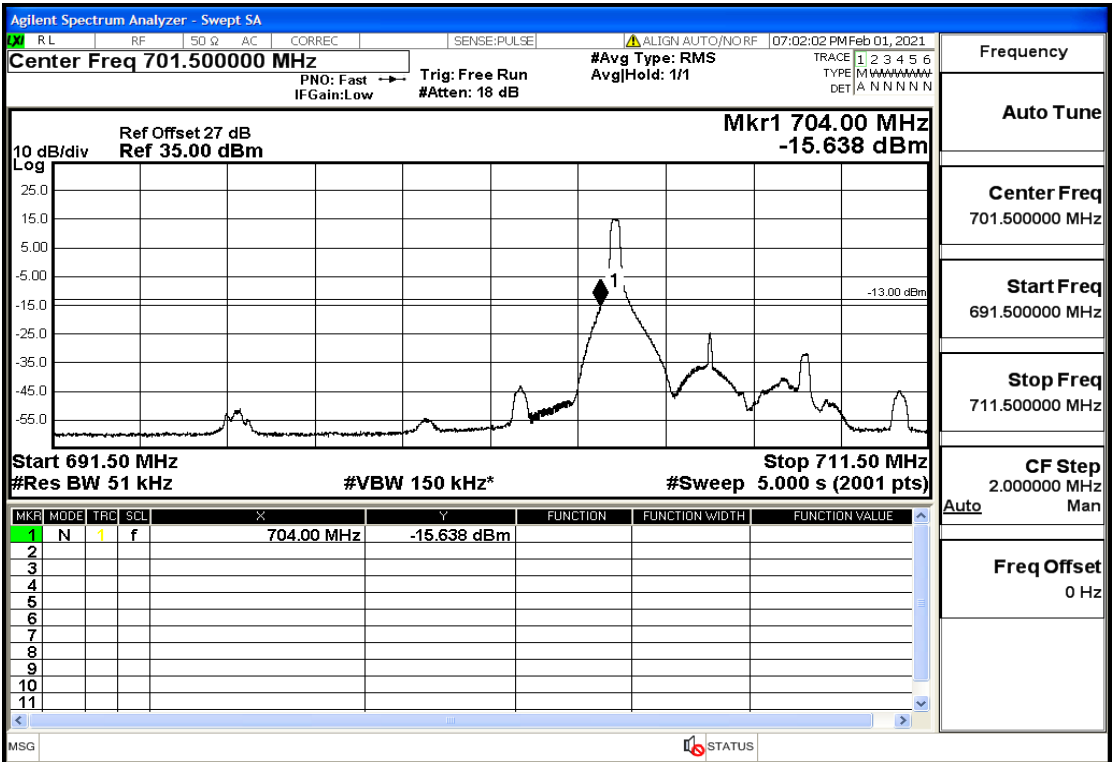
Band Edge and Emission Mask

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

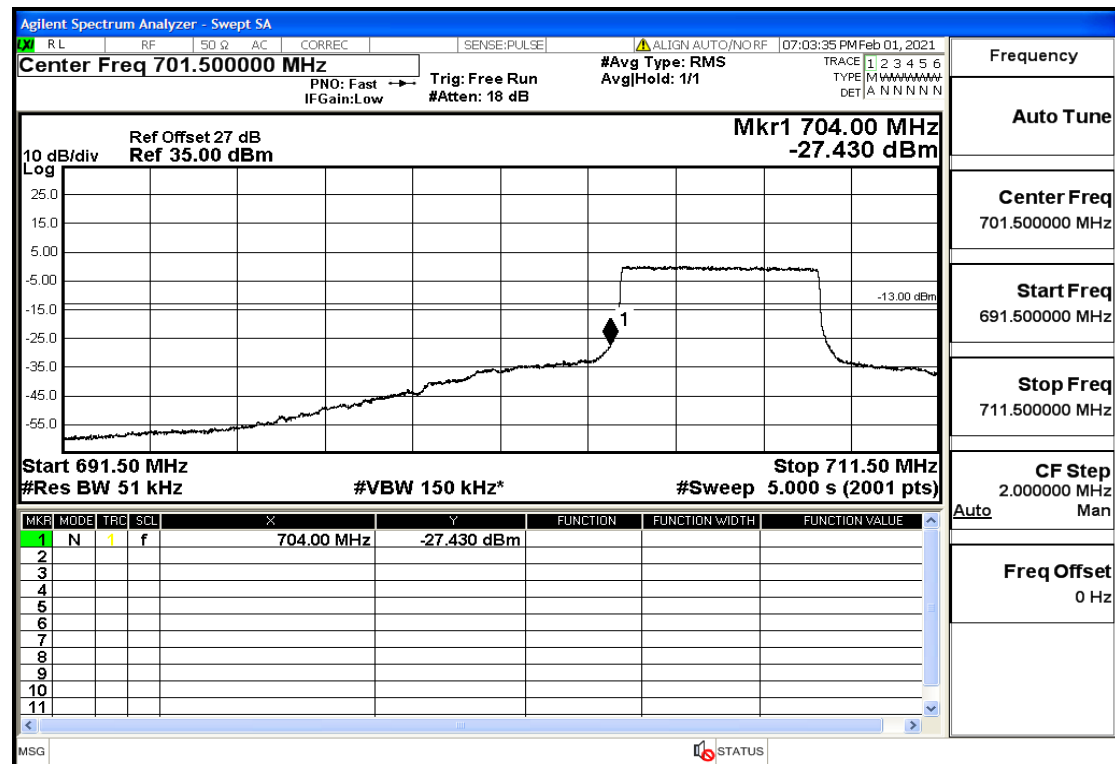
Band17-5-706.5-QPSK-25#LOW@Pass



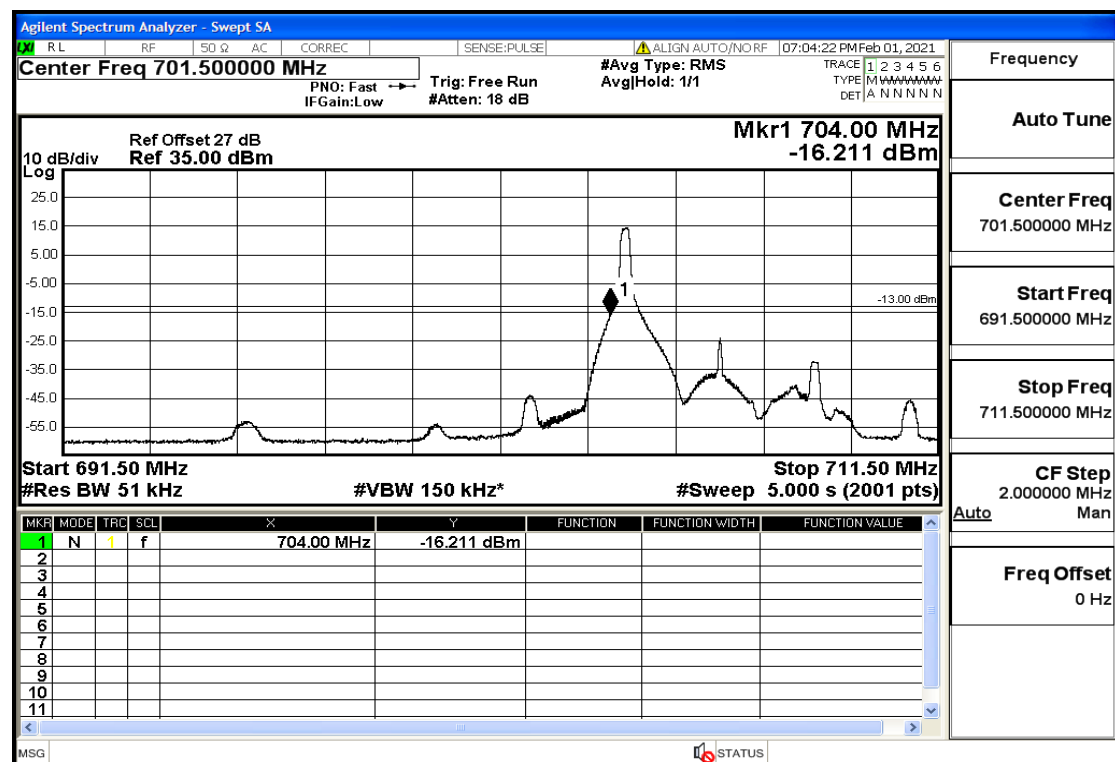
Band17-5-706.5-QPSK-1#LOW@Pass



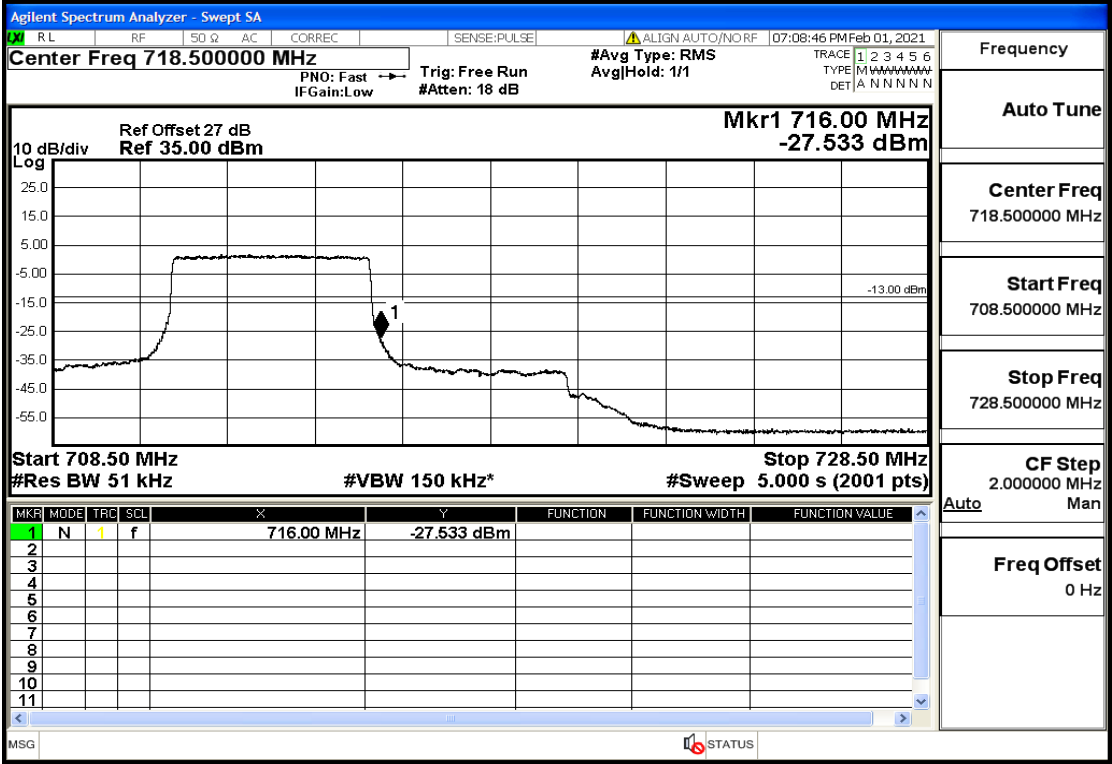
Band17-5-706.5-16QAM-25#LOW@Pass



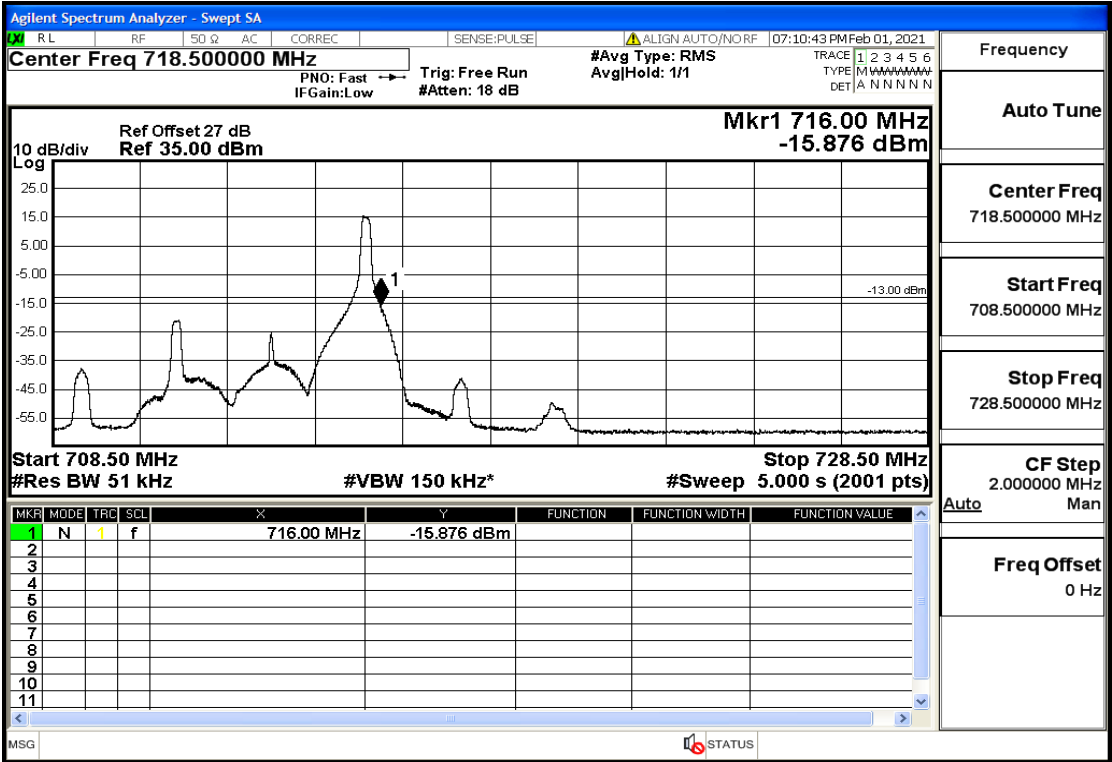
Band17-5-706.5-16QAM-1#LOW@Pass



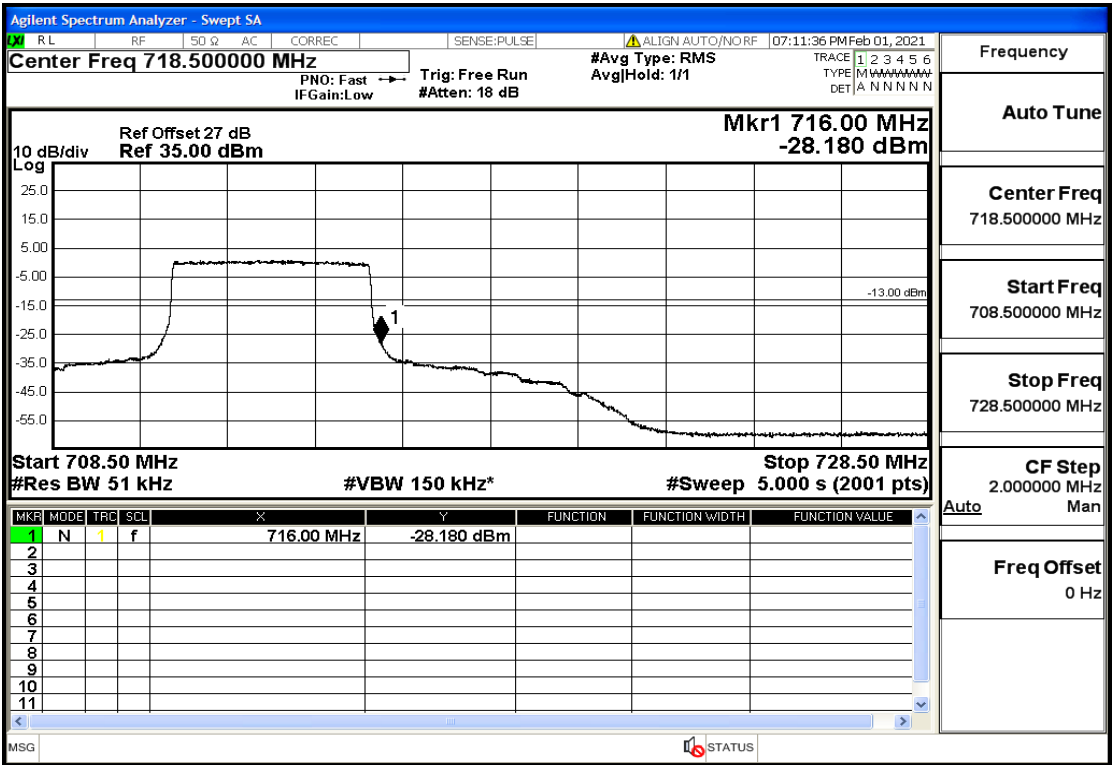
Band17-5-713.5-QPSK-25#LOW@Pass



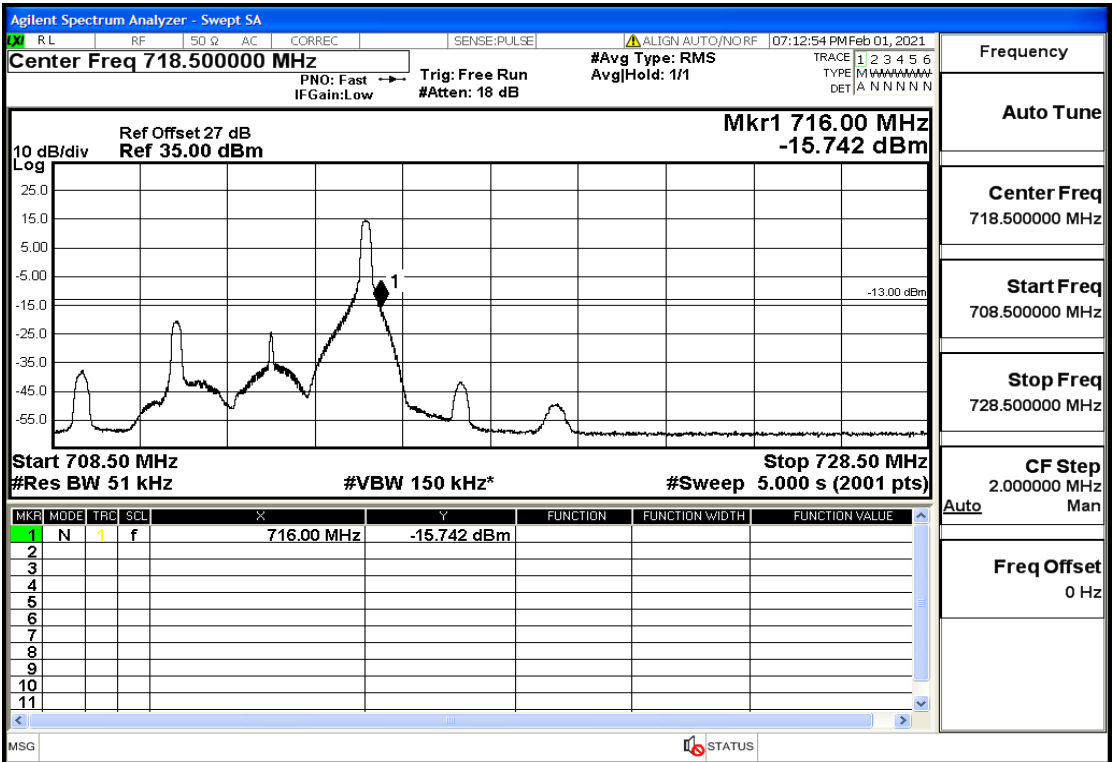
Band17-5-713.5-QPSK-1#HIGH@Pass



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



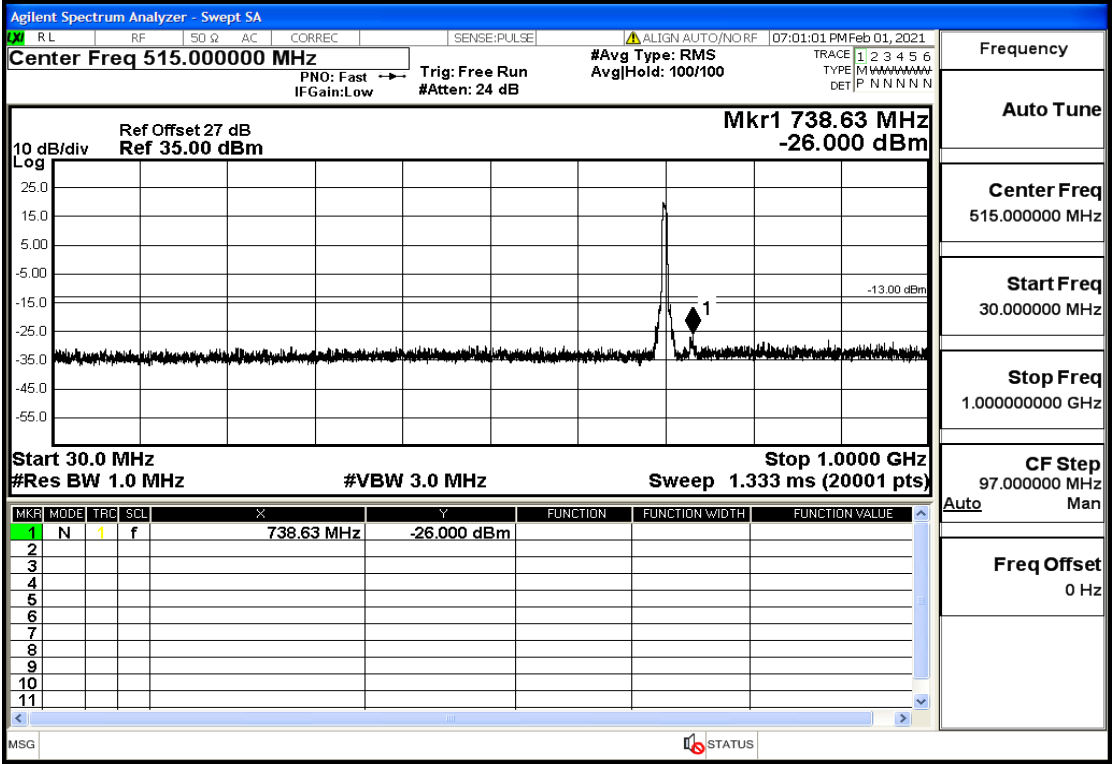
Band17-5-713.5-16QAM-1#HIGH@Pass



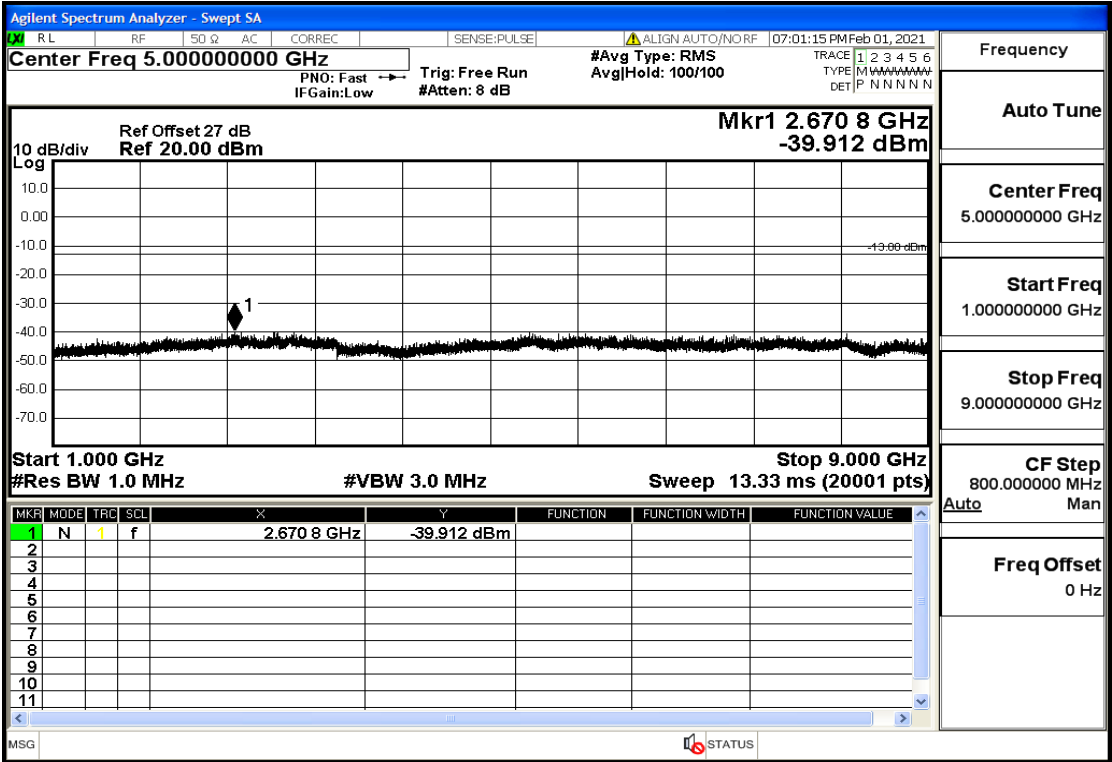
Conducted Spurious Emission

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	706.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB17	5	706.5	QPSK	1	LOW	1GHz-9GHz	Pass
OB17	5	706.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB17	5	706.5	QPSK	1	HIGH	1GHz-9GHz	Pass
OB17	5	710	QPSK	25	LOW	30mHz-1GHz	Pass
OB17	5	710	QPSK	25	LOW	1GHz-9GHz	Pass
OB17	5	710	QPSK	1	LOW	30mHz-1GHz	Pass
OB17	5	710	QPSK	1	LOW	1GHz-9GHz	Pass
OB17	5	710	QPSK	1	HIGH	30mHz-1GHz	Pass
OB17	5	710	QPSK	1	HIGH	1GHz-9GHz	Pass
OB17	5	713.5	QPSK	25	LOW	30mHz-1GHz	Pass
OB17	5	713.5	QPSK	25	LOW	1GHz-9GHz	Pass
OB17	5	713.5	QPSK	1	LOW	30mHz-1GHz	Pass
OB17	5	713.5	QPSK	1	LOW	1GHz-9GHz	Pass
OB17	5	713.5	QPSK	1	HIGH	30mHz-1GHz	Pass
OB17	5	713.5	QPSK	1	HIGH	1GHz-9GHz	Pass

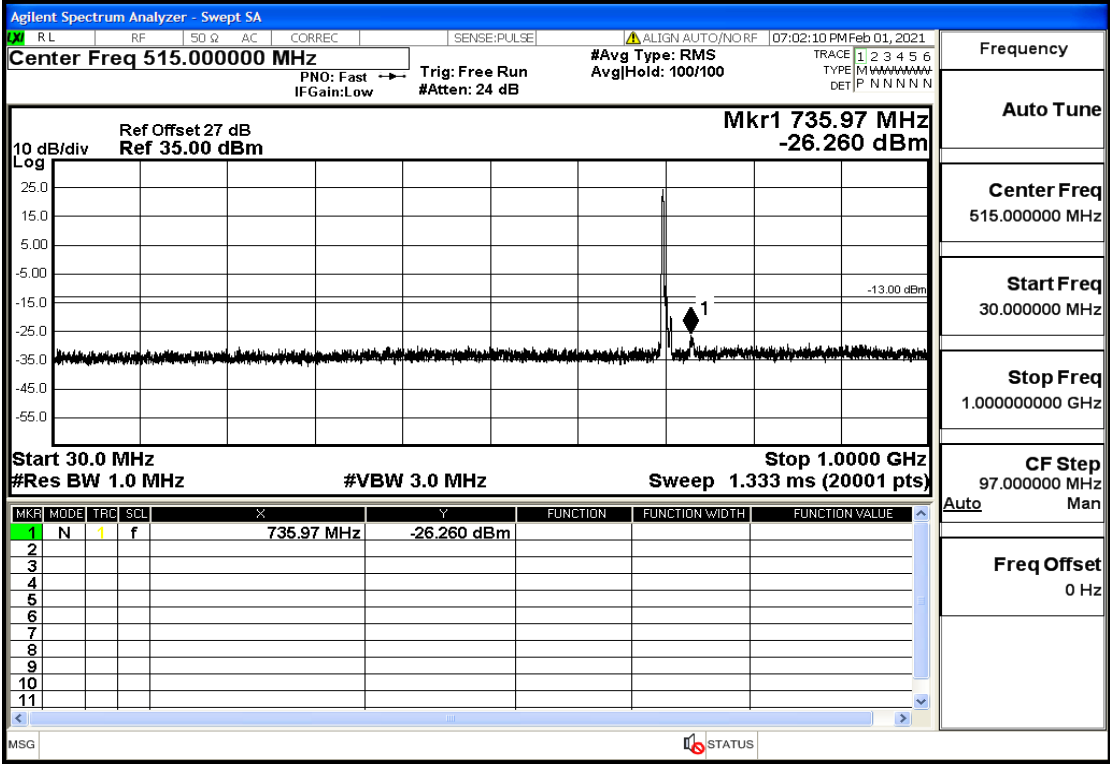
OB17-5-706.5-QPSK-25#LOW@30mHz-1GHz@Pass



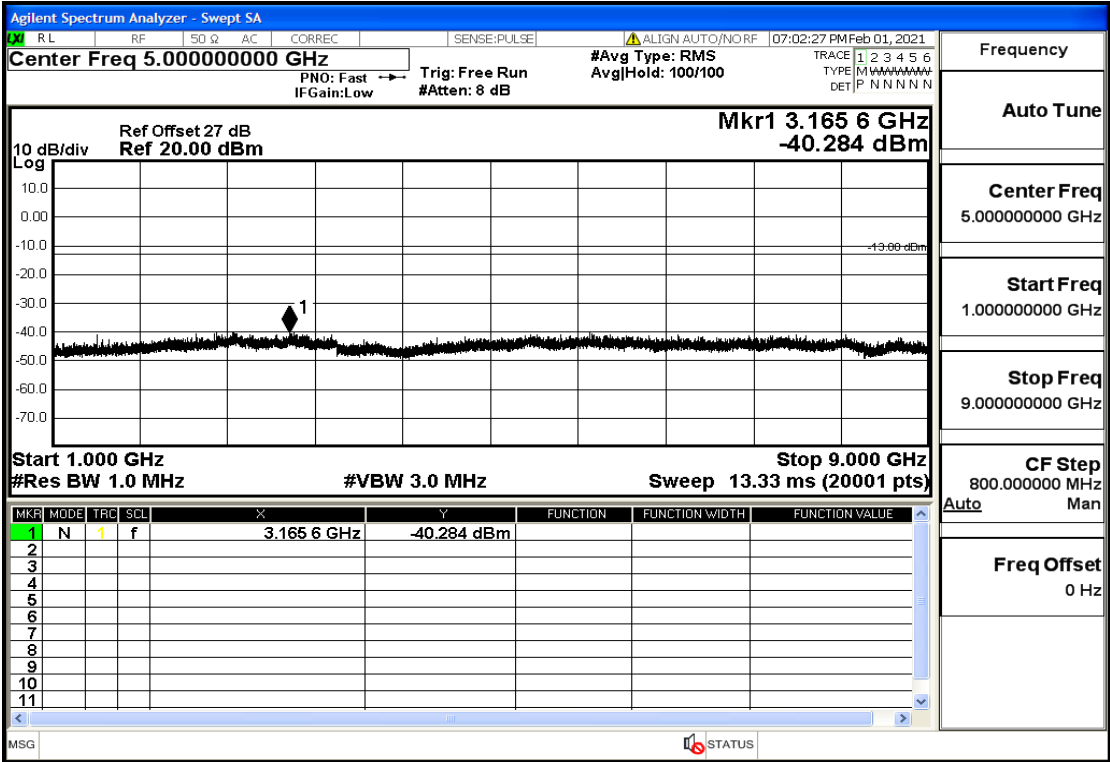
OB17-5-706.5-QPSK-25#LOW@1GHz-9GHz@Pass



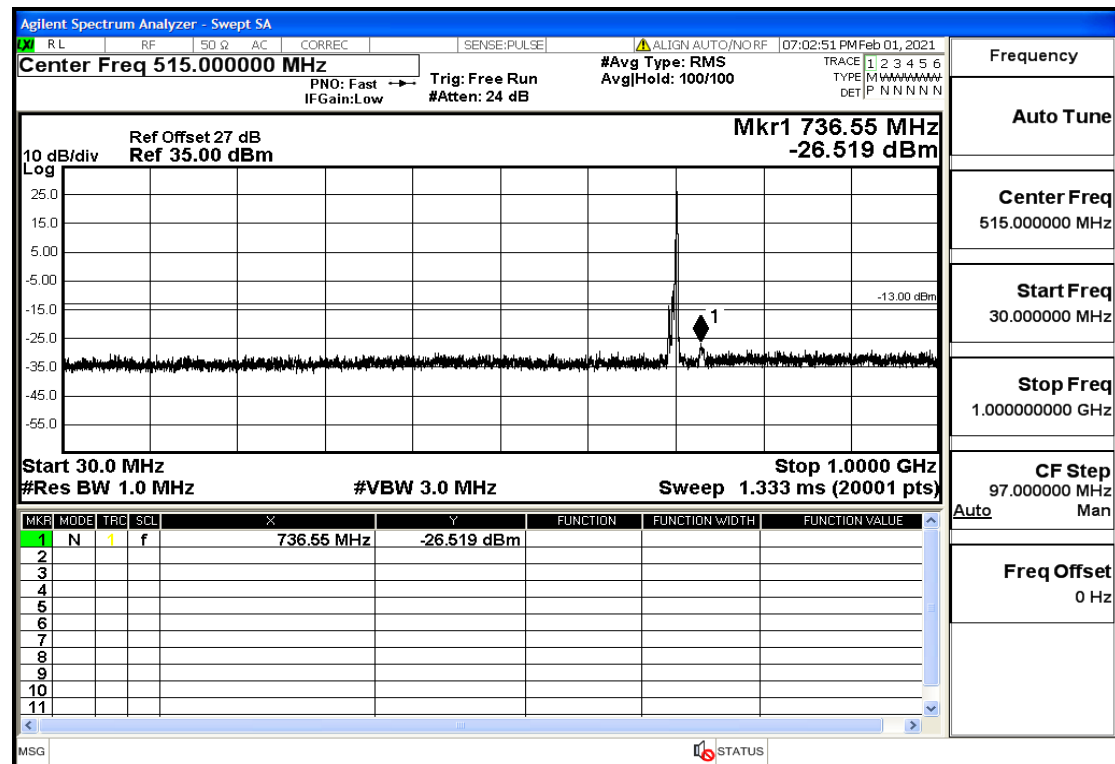
OB17-5-706.5-QPSK-1#LOW@30mHz-1GHz@Pass



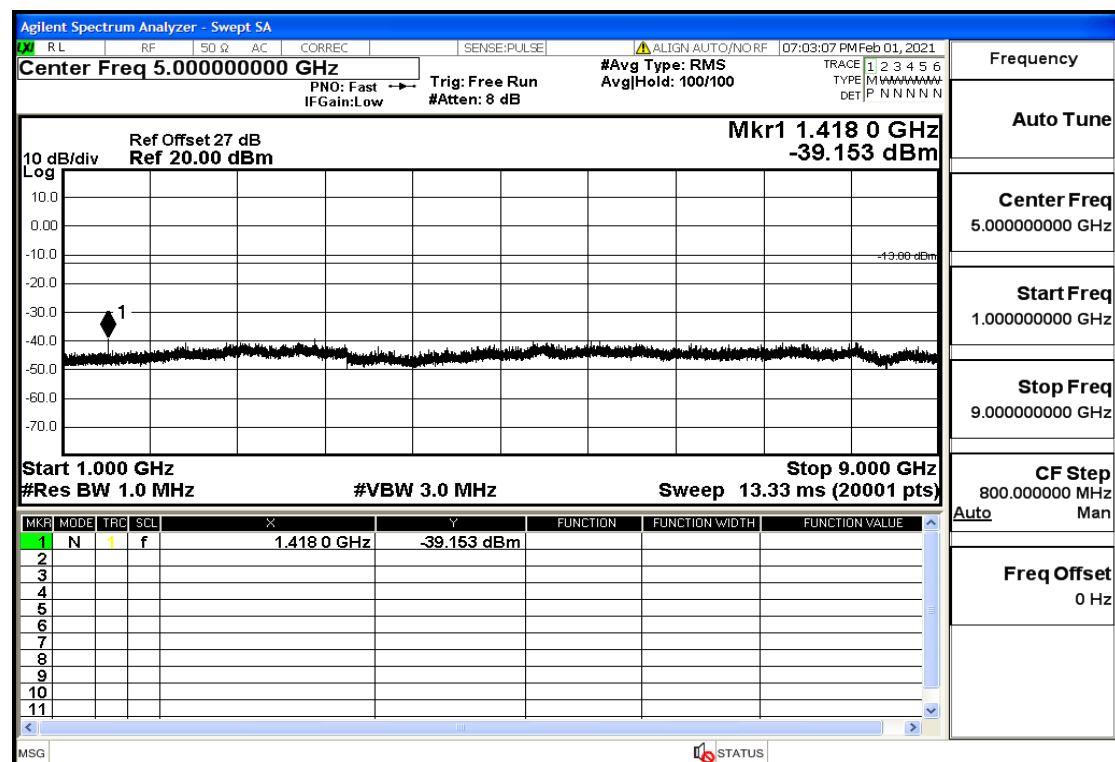
OB17-5-706.5-QPSK-1#LOW@1GHz-9GHz@Pass



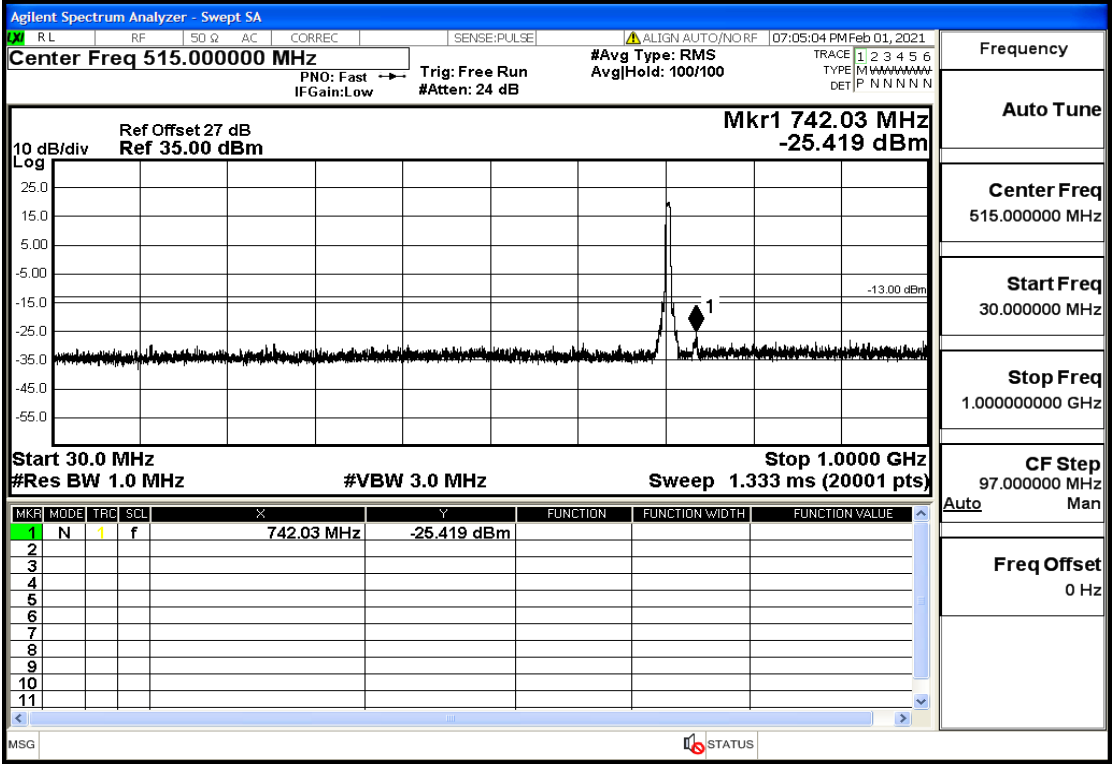
OB17-5-706.5-QPSK-1#HIGH@30mHz-1GHz@Pass



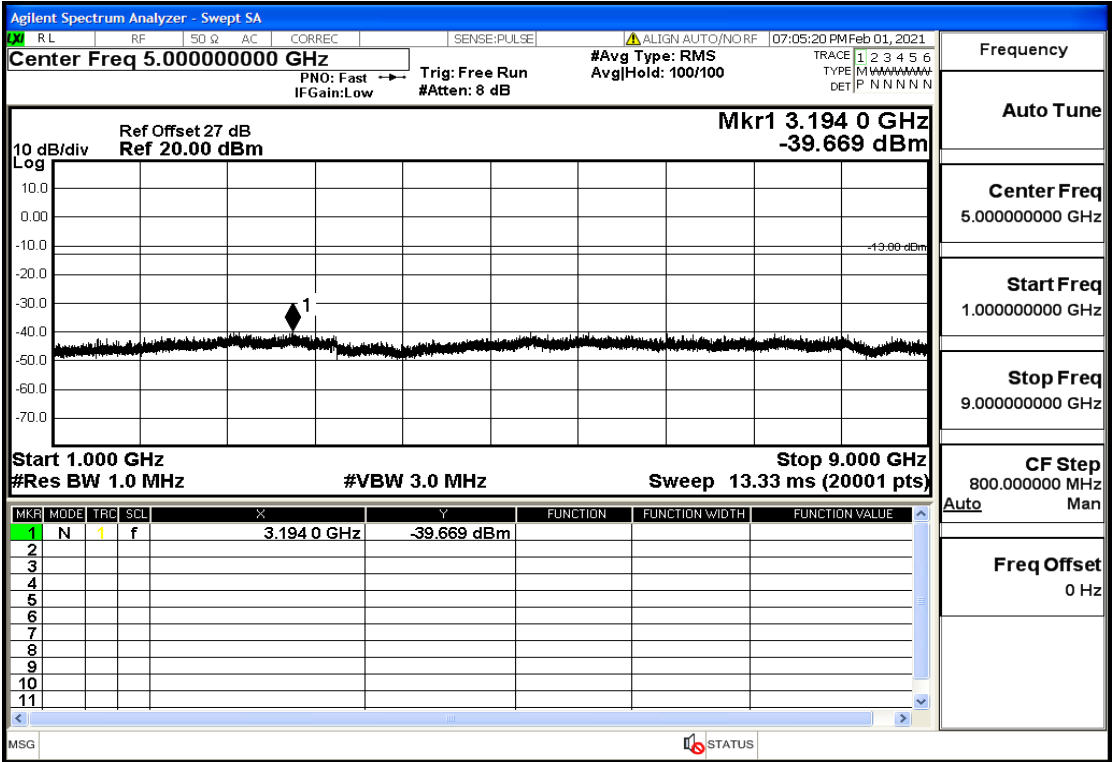
OB17-5-706.5-QPSK-1#HIGH@1GHz-9GHz@Pass



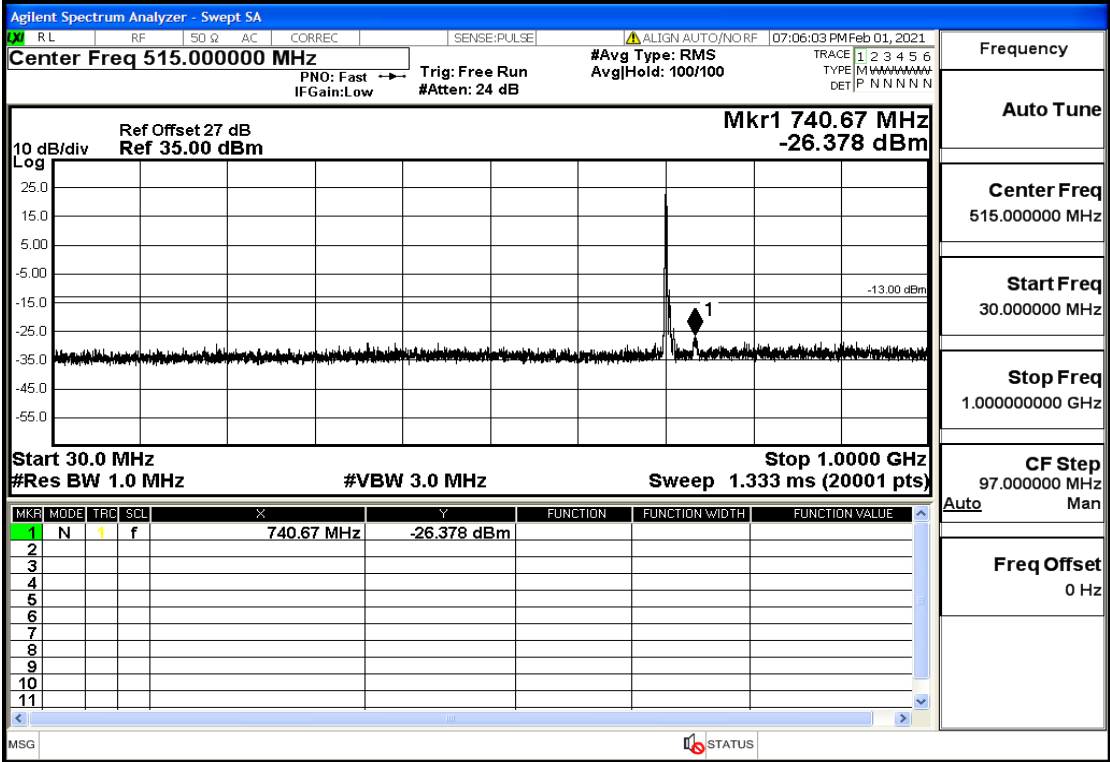
OB17-5-710-QPSK-25#LOW@30mHz-1GHz@Pass



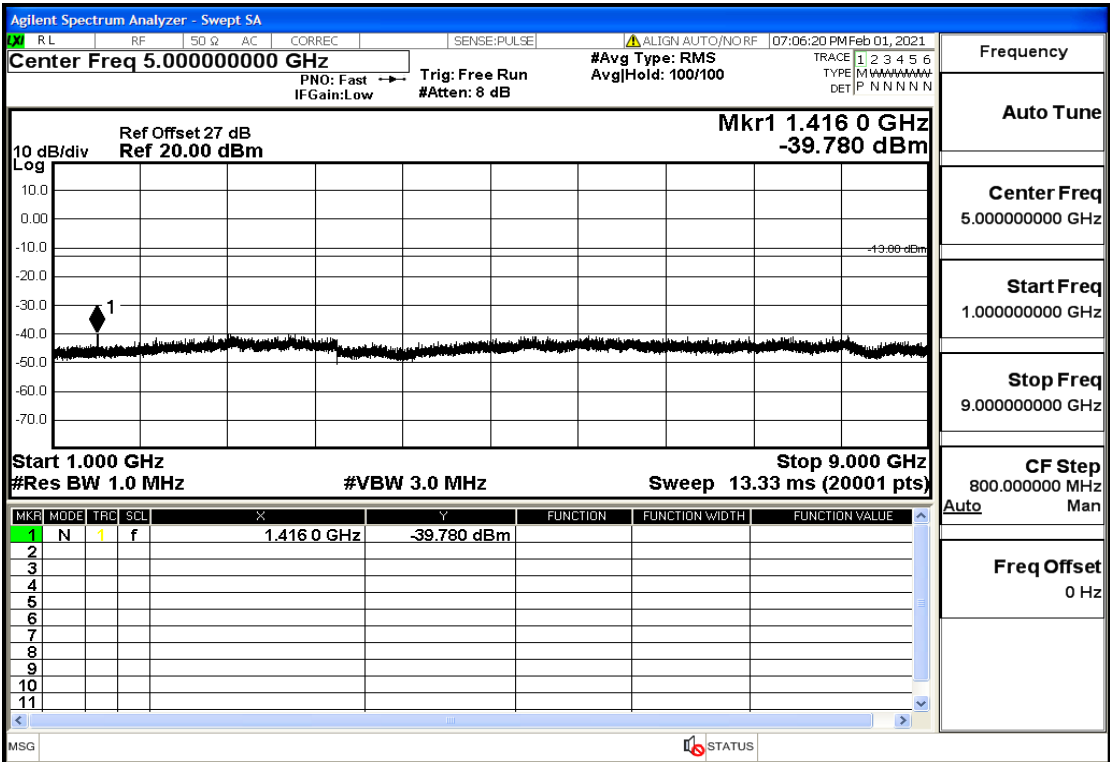
OB17-5-710-QPSK-25#LOW@1GHz-9GHz@Pass



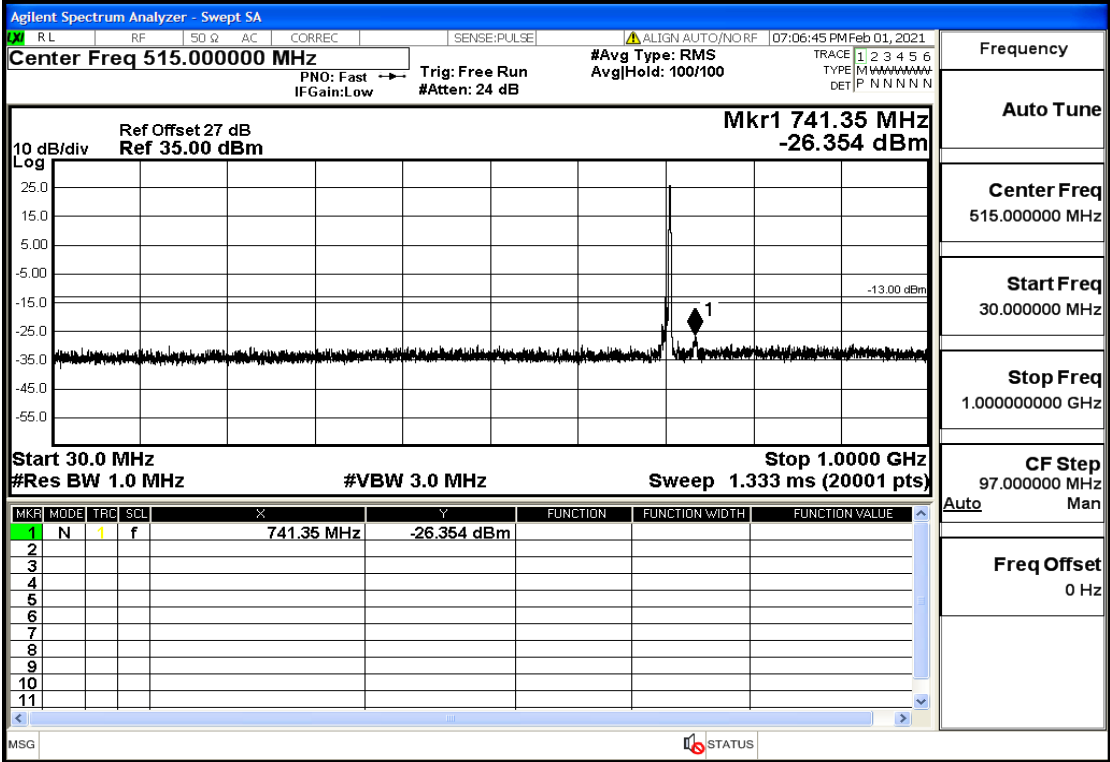
OB17-5-710-QPSK-1#LOW@30mHz-1GHz@Pass



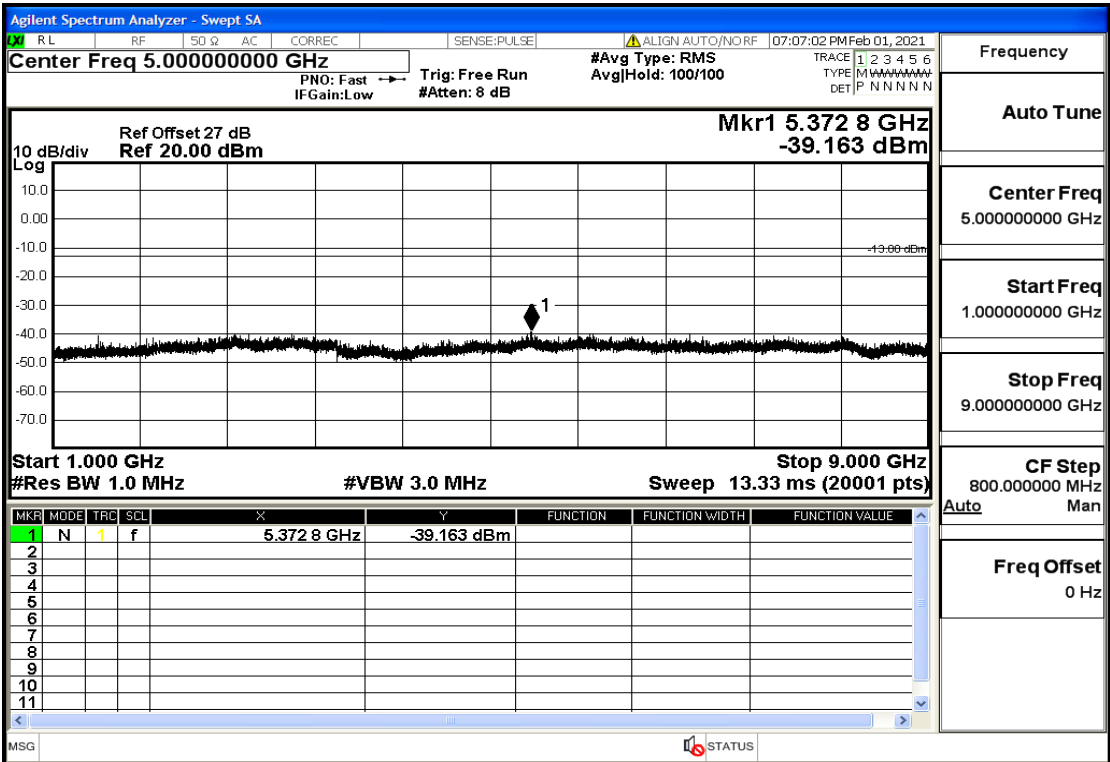
OB17-5-710-QPSK-1#LOW@1GHz-9GHz@Pass



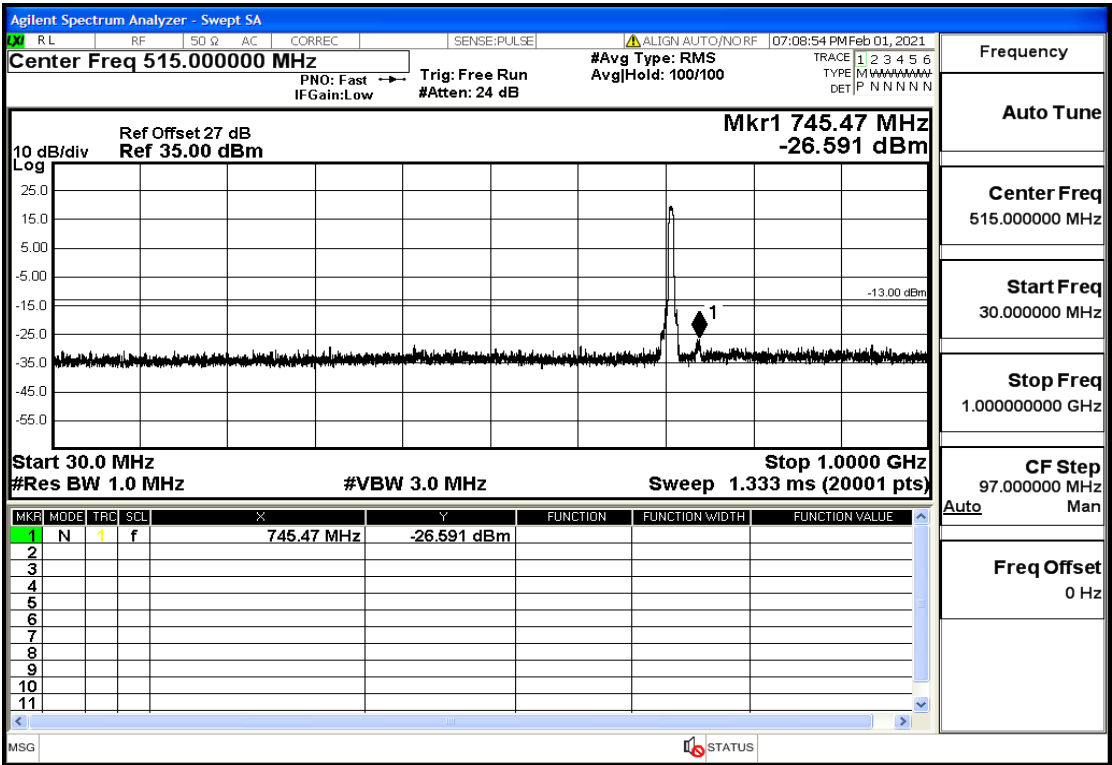
OB17-5-710-QPSK-1#HIGH@30mHz-1GHz@Pass



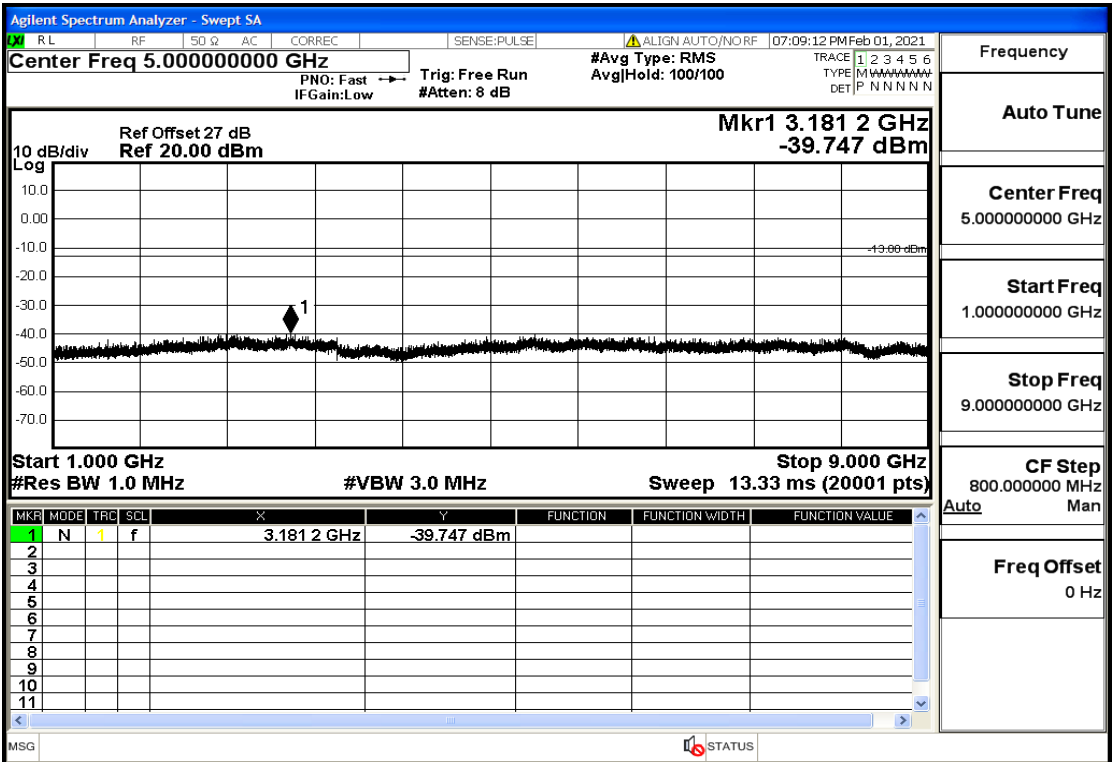
OB17-5-710-QPSK-1#HIGH@1GHz-9GHz@Pass



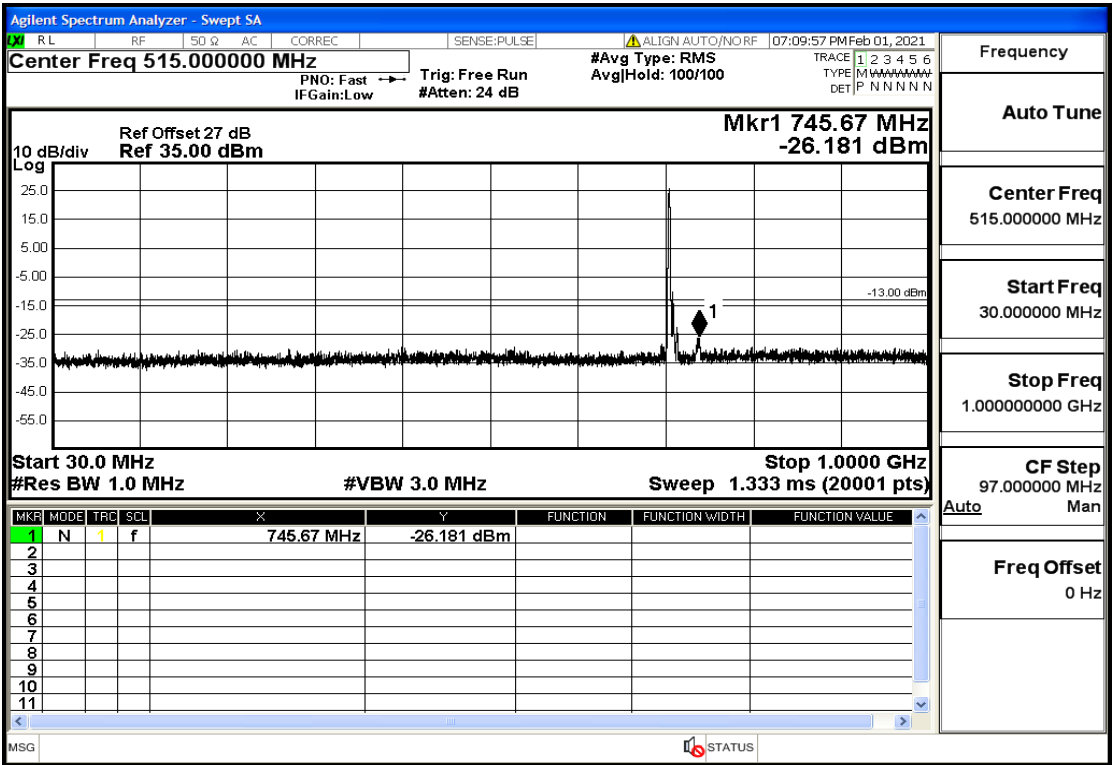
OB17-5-713.5-QPSK-25#LOW@30mHz-1GHz@Pass



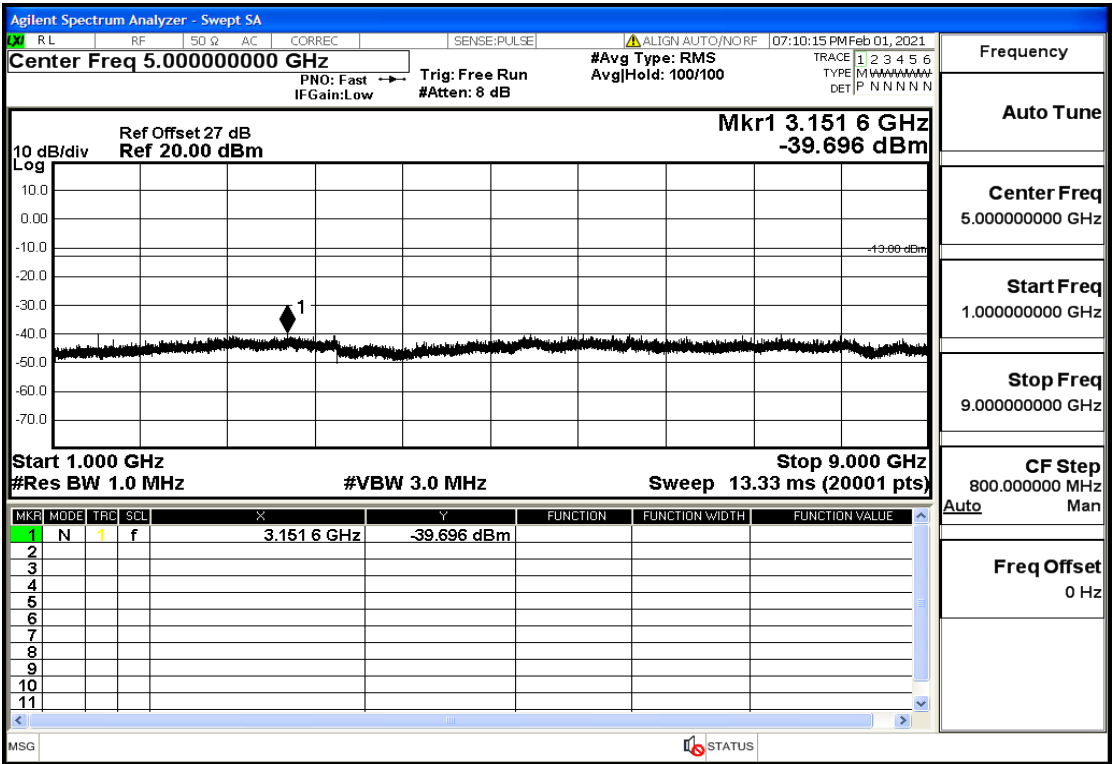
OB17-5-713.5-QPSK-25#LOW@1GHz-9GHz@Pass



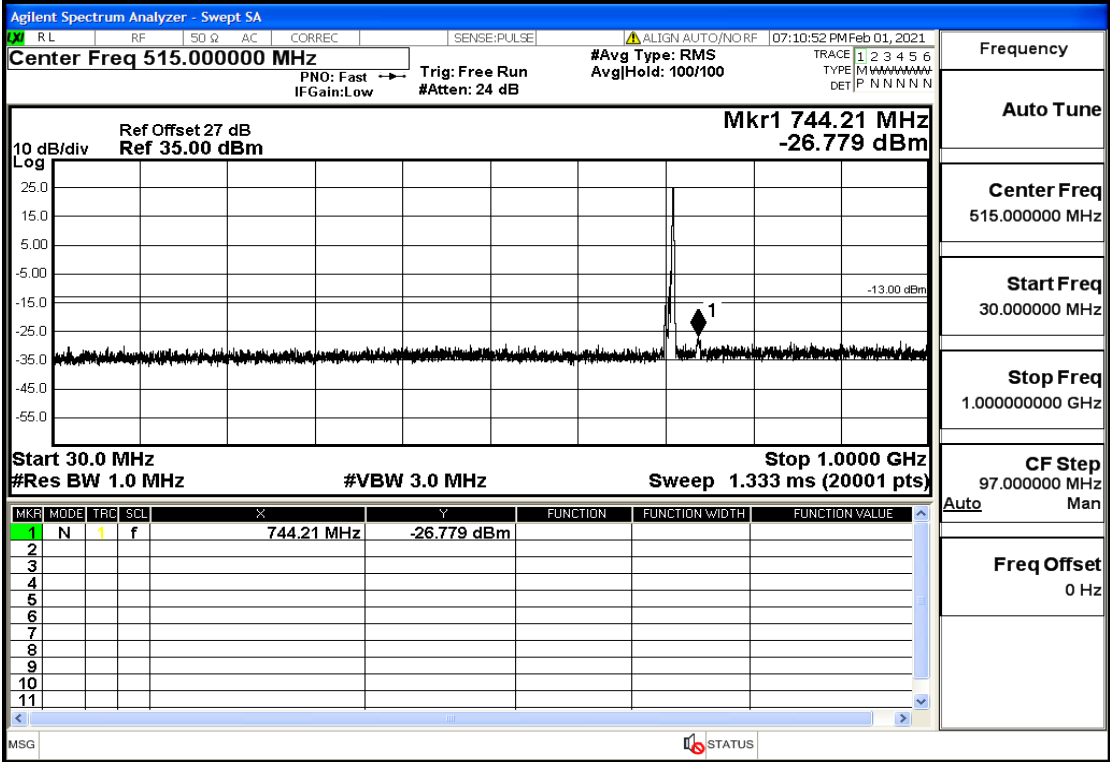
OB17-5-713.5-QPSK-1#LOW@30mHz-1GHz@Pass



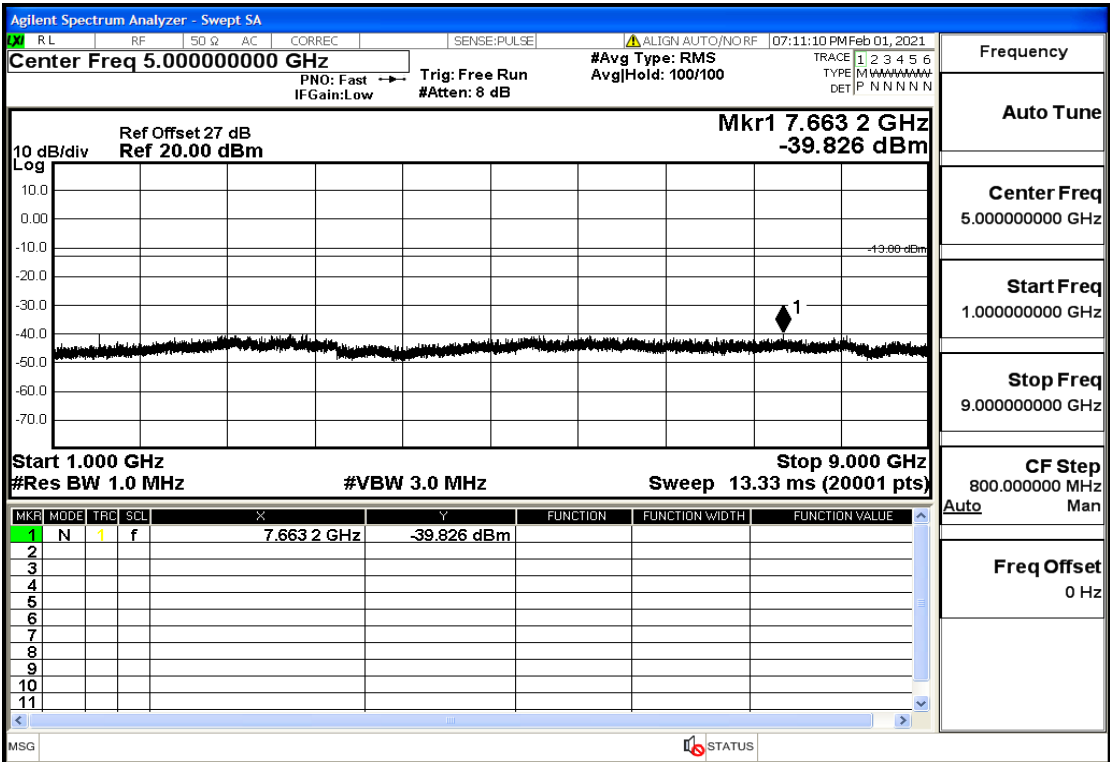
OB17-5-713.5-QPSK-1#LOW@1GHz-9GHz@Pass



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



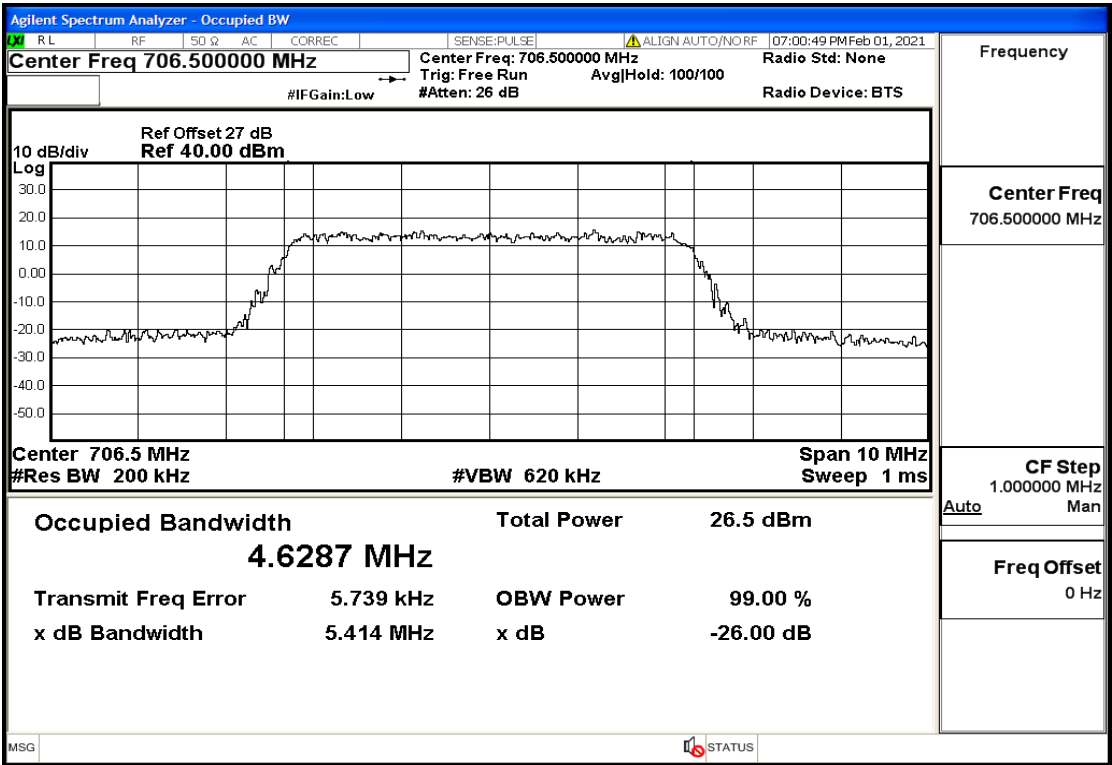
OB17-5-713.5-QPSK-1#HIGH@1GHz-9GHz@Pass



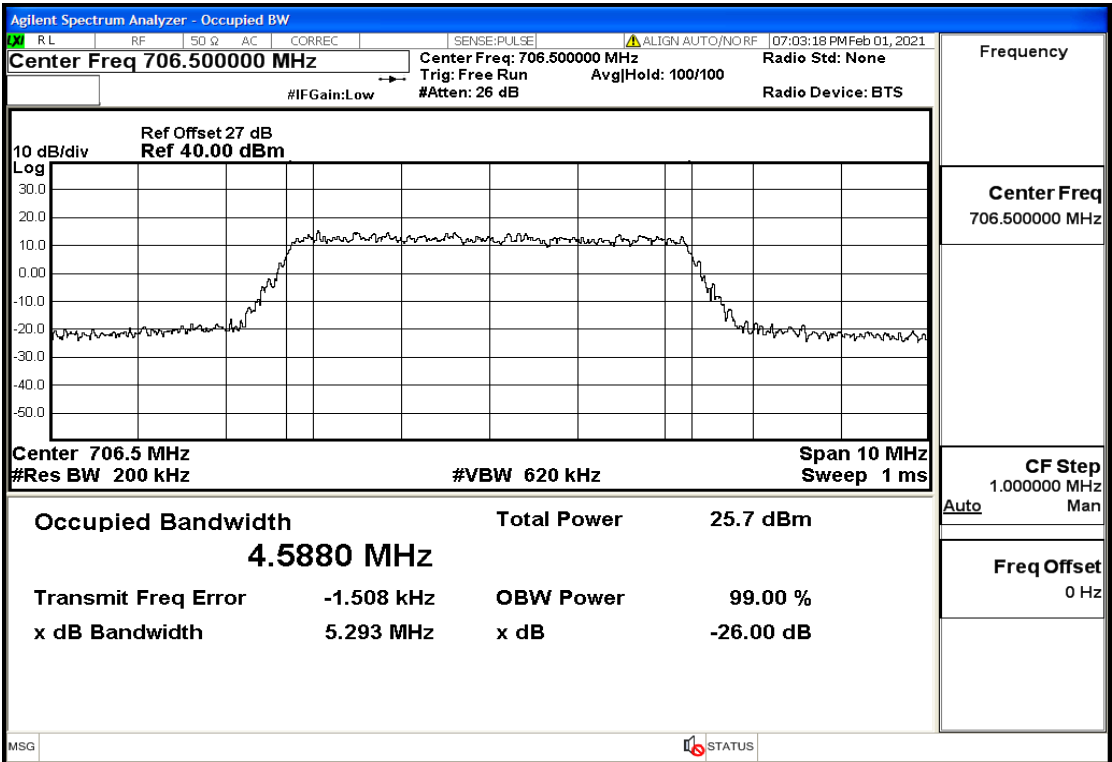
Emission bandwidth and OBW

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	4628.7	5414	No limit
Band17	5	706.5	16QAM	25	LOW	4588	5293	No limit
Band17	5	710	QPSK	25	LOW	4587.5	5265	No limit
Band17	5	710	16QAM	25	LOW	4610.5	5228	No limit
Band17	5	713.5	QPSK	25	LOW	4595.4	5355	No limit
Band17	5	713.5	16QAM	25	LOW	4585.8	5279	No limit

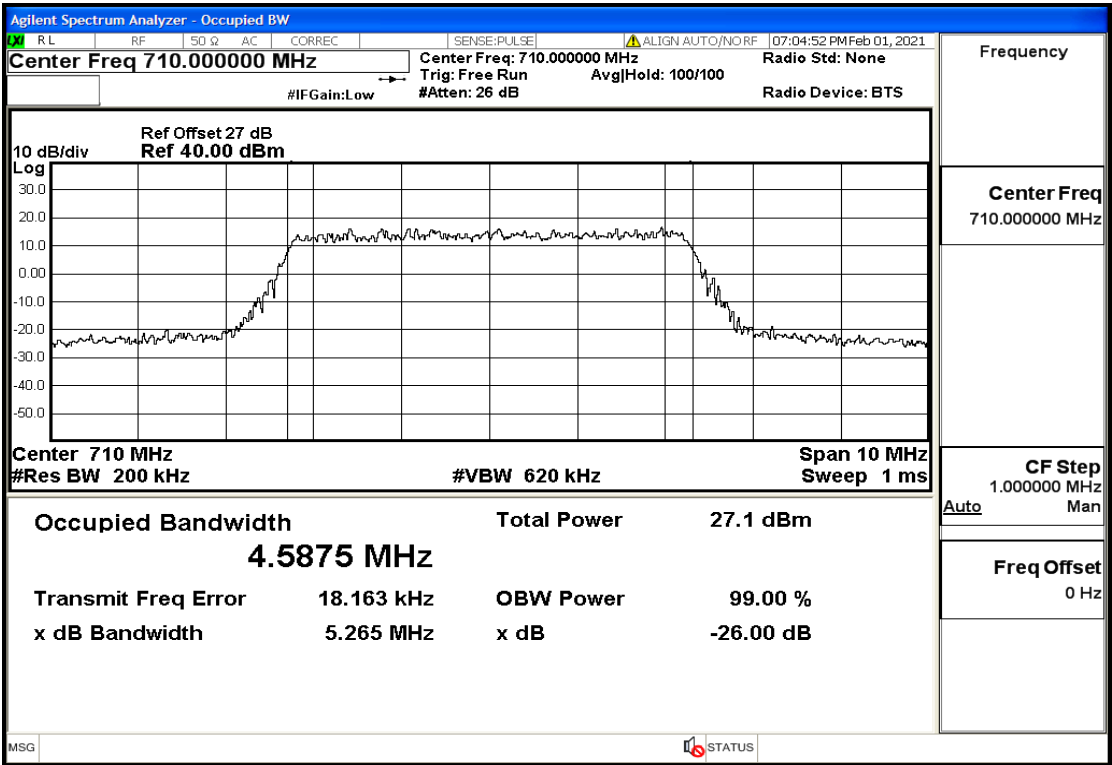
Band17-5-706.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



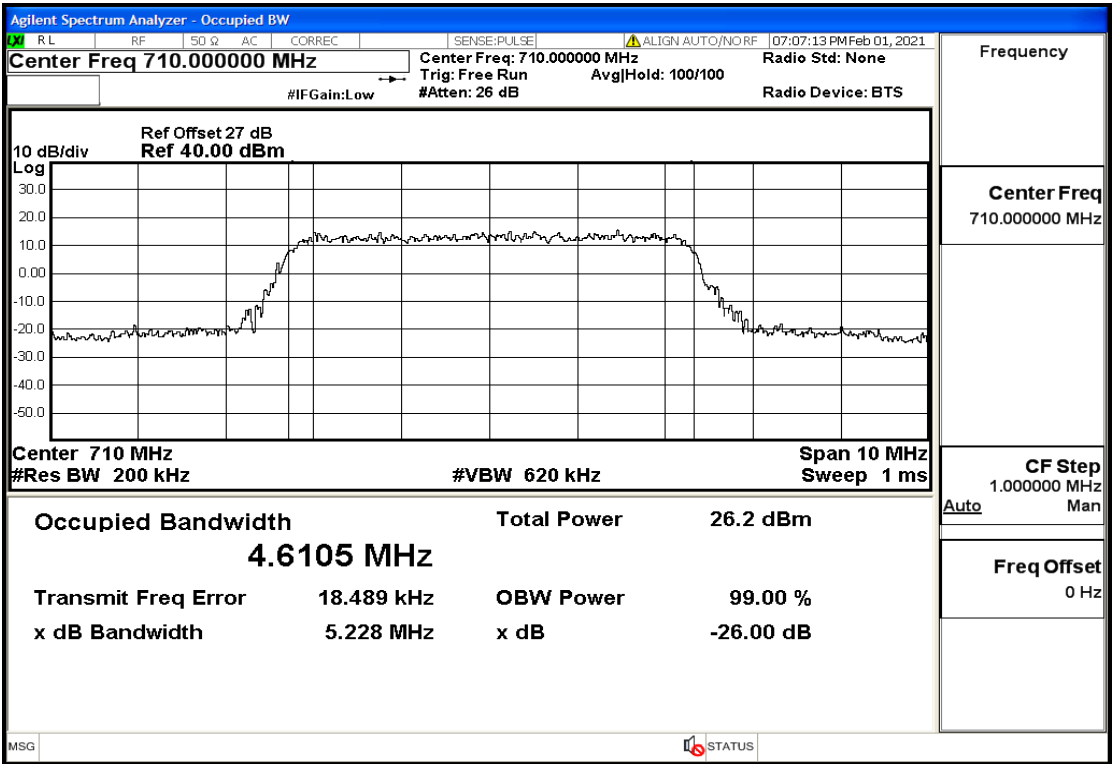
Band17-5-706.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



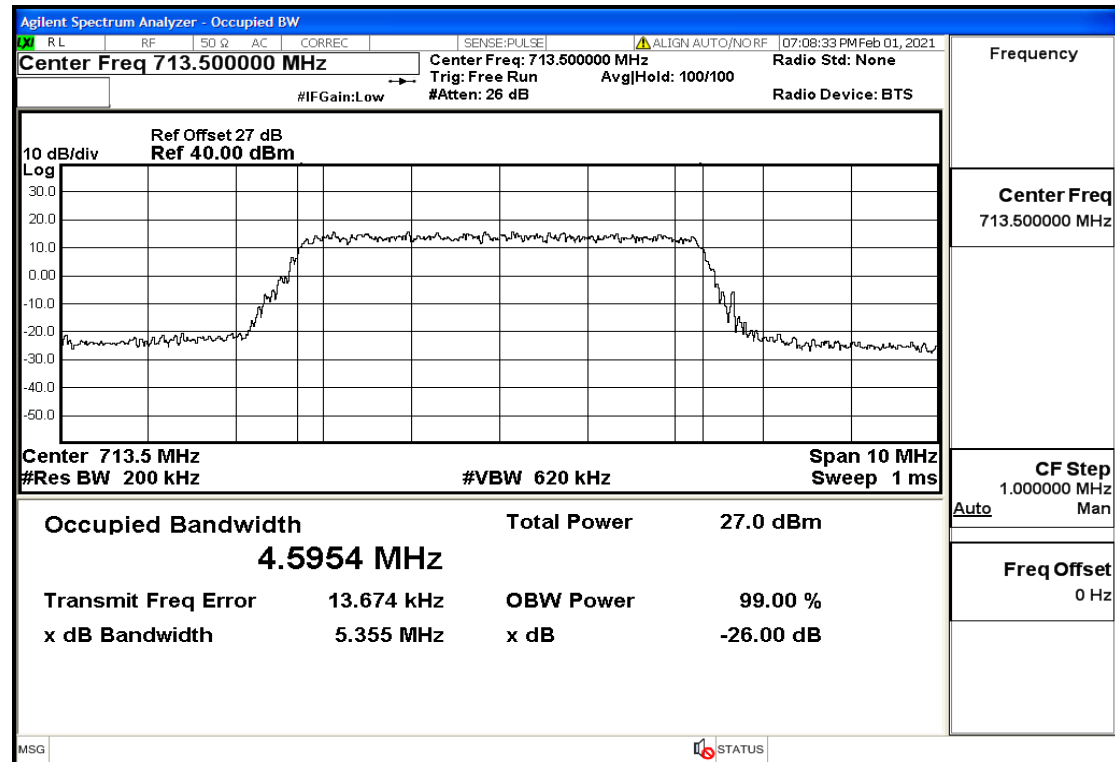
Band17-5-710-QPSK-25#LOW@26dB and 99PCT Bandwidth



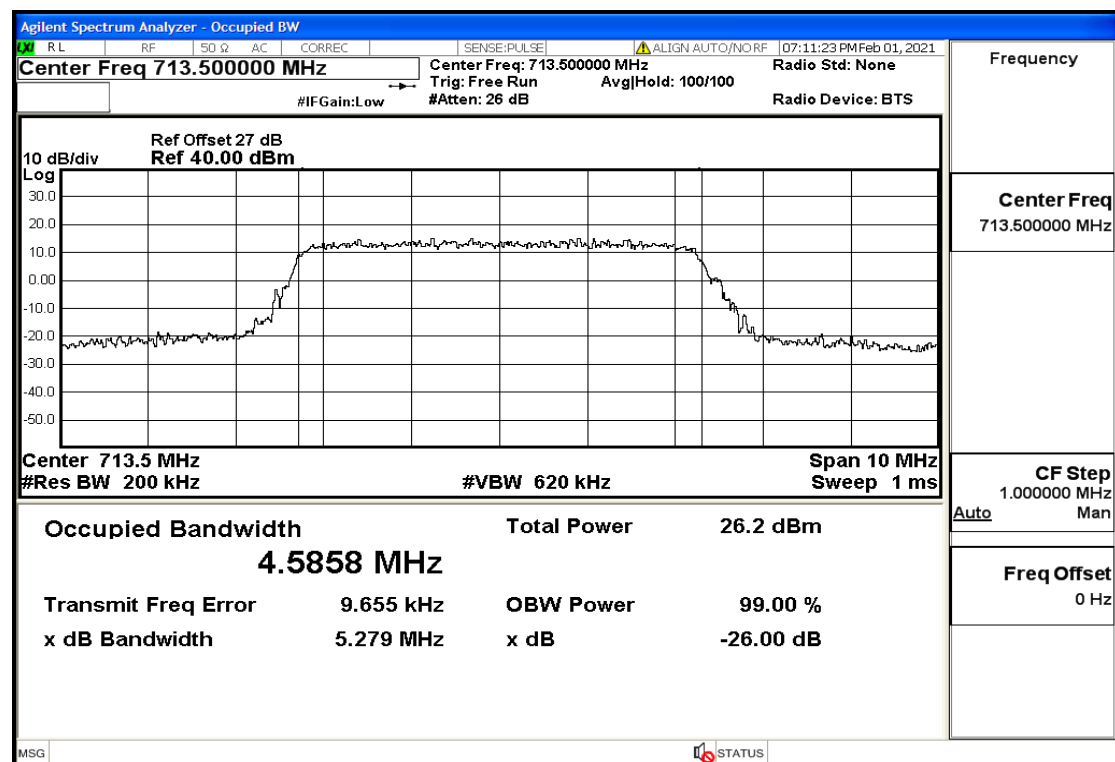
Band17-5-710-16QAM-25#LOW@26dB and 99PCT Bandwidth



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



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



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	0.0076	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0067	
-20	Normal Voltage	0.0060	
-30	Normal Voltage	0.0065	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0070	

Output Power and Peak-to-Average Ratio (PAR)

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Average Power	Peak Power	Peak to Average(dB)	limit(dB)	Ant. Gain(dBi)	ERP/EIRP(dBm)	Limit(dBm)	Conclusion
Band17	5	706.5	QPSK	25	LOW	19.77	26.33	6.56	13	-10.0	7.62	34.8	Pass
Band17	5	706.5	QPSK	12	LOW	19.87	26.25	6.38	13	-10.0	7.72	34.8	Pass
Band17	5	706.5	QPSK	12	MID	19.82	26.15	6.33	13	-10.0	7.67	34.8	Pass
Band17	5	706.5	QPSK	12	HIGH	19.86	26.28	6.42	13	-10.0	7.71	34.8	Pass
Band17	5	706.5	QPSK	1	LOW	20.78	27.29	6.51	13	-10.0	8.63	34.8	Pass
Band17	5	706.5	QPSK	1	MID	20.82	27.23	6.41	13	-10.0	8.67	34.8	Pass
Band17	5	706.5	QPSK	1	HIGH	20.8	27.66	6.86	13	-10.0	8.65	34.8	Pass
Band17	5	706.5	16QAM	25	LOW	18.93	26.54	7.61	13	-10.0	6.78	34.8	Pass
Band17	5	706.5	16QAM	12	LOW	18.87	26.46	7.59	13	-10.0	6.72	34.8	Pass
Band17	5	706.5	16QAM	12	MID	18.89	26.63	7.74	13	-10.0	6.74	34.8	Pass
Band17	5	706.5	16QAM	12	HIGH	18.9	26.69	7.79	13	-10.0	6.75	34.8	Pass
Band17	5	706.5	16QAM	1	LOW	19.76	25.8	6.04	13	-10.0	7.61	34.8	Pass
Band17	5	706.5	16QAM	1	MID	19.92	25.81	5.89	13	-10.0	7.77	34.8	Pass
Band17	5	706.5	16QAM	1	HIGH	19.91	26.08	6.17	13	-10.0	7.76	34.8	Pass
Band17	5	710	QPSK	25	LOW	20.15	27.12	6.97	13	-10.0	8.00	34.8	Pass
Band17	5	710	QPSK	12	LOW	20.05	26.99	6.94	13	-10.0	7.90	34.8	Pass
Band17	5	710	QPSK	12	MID	20.04	26.88	6.84	13	-10.0	7.89	34.8	Pass
Band17	5	710	QPSK	12	HIGH	20.19	27.1	6.91	13	-10.0	8.04	34.8	Pass
Band17	5	710	QPSK	1	LOW	20.68	26.47	5.79	13	-10.0	8.53	34.8	Pass
Band17	5	710	QPSK	1	MID	21.23	26.79	5.56	13	-10.0	9.08	34.8	Pass
Band17	5	710	QPSK	1	HIGH	21.02	26.76	5.74	13	-10.0	8.87	34.8	Pass
Band17	5	710	16QAM	25	LOW	19.18	26.63	7.45	13	-10.0	7.03	34.8	Pass
Band17	5	710	16QAM	12	LOW	19.15	26.18	7.03	13	-10.0	7.00	34.8	Pass
Band17	5	710	16QAM	12	MID	19.15	26.15	7	13	-10.0	7.00	34.8	Pass
Band17	5	710	16QAM	12	HIGH	19.37	26.38	7.01	13	-10.0	7.22	34.8	Pass
Band17	5	710	16QAM	1	LOW	19.93	26.14	6.21	13	-10.0	7.78	34.8	Pass
Band17	5	710	16QAM	1	MID	20.6	26.62	6.02	13	-10.0	8.45	34.8	Pass
Band17	5	710	16QAM	1	HIGH	20.43	26.61	6.18	13	-10.0	8.28	34.8	Pass
Band17	5	713.5	QPSK	25	LOW	20.13	26.53	6.4	13	-10.0	7.98	34.8	Pass
Band17	5	713.5	QPSK	12	LOW	20.24	26.46	6.22	13	-10.0	8.09	34.8	Pass
Band17	5	713.5	QPSK	12	MID	20.23	26.4	6.17	13	-10.0	8.08	34.8	Pass
Band17	5	713.5	QPSK	12	HIGH	20.07	26.36	6.29	13	-10.0	7.92	34.8	Pass
Band17	5	713.5	QPSK	1	LOW	21	26.95	5.95	13	-10.0	8.85	34.8	Pass
Band17	5	713.5	QPSK	1	MID	21.24	26.8	5.56	13	-10.0	9.09	34.8	Pass
Band17	5	713.5	QPSK	1	HIGH	20.5	26.33	5.83	13	-10.0	8.35	34.8	Pass
Band17	5	713.5	16QAM	25	LOW	19.17	26.87	7.7	13	-10.0	7.02	34.8	Pass
Band17	5	713.5	16QAM	12	LOW	19.31	26.29	6.98	13	-10.0	7.16	34.8	Pass
Band17	5	713.5	16QAM	12	MID	19.32	26.31	6.99	13	-10.0	7.17	34.8	Pass
Band17	5	713.5	16QAM	12	HIGH	19.15	25.97	6.82	13	-10.0	7.00	34.8	Pass
Band17	5	713.5	16QAM	1	LOW	20.08	26.87	6.79	13	-10.0	7.93	34.8	Pass

Band17	5	713.5	16QAM	1	MID	20.4	26.84	6.44	13	-10.0	8.25	34.8	Pass
Band17	5	713.5	16QAM	1	HIGH	19.73	26.37	6.64	13	-10.0	7.58	34.8	Pass