

RF Test Data for LTE (Conducted Measurement)

Product Name: smart phone
Trade Mark: YEZZ
Test Model: MAX 3
FCC ID: 2APW4MAX3

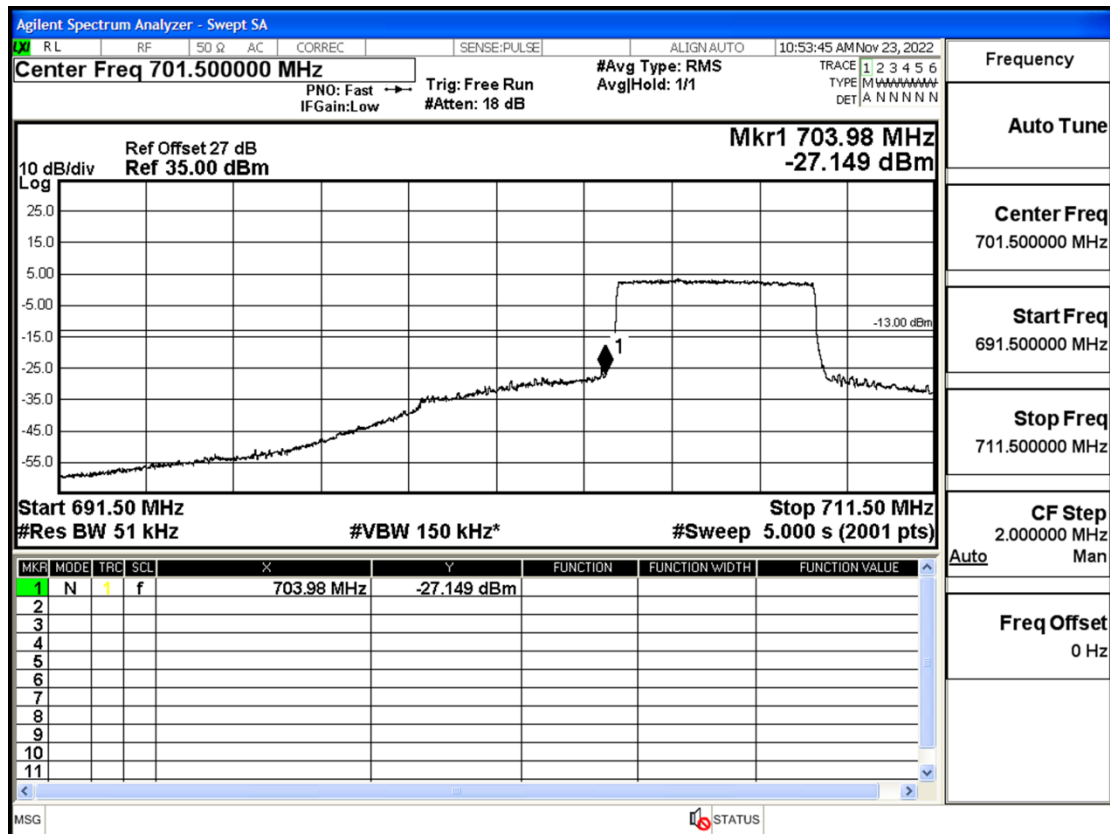
Environmental Conditions

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

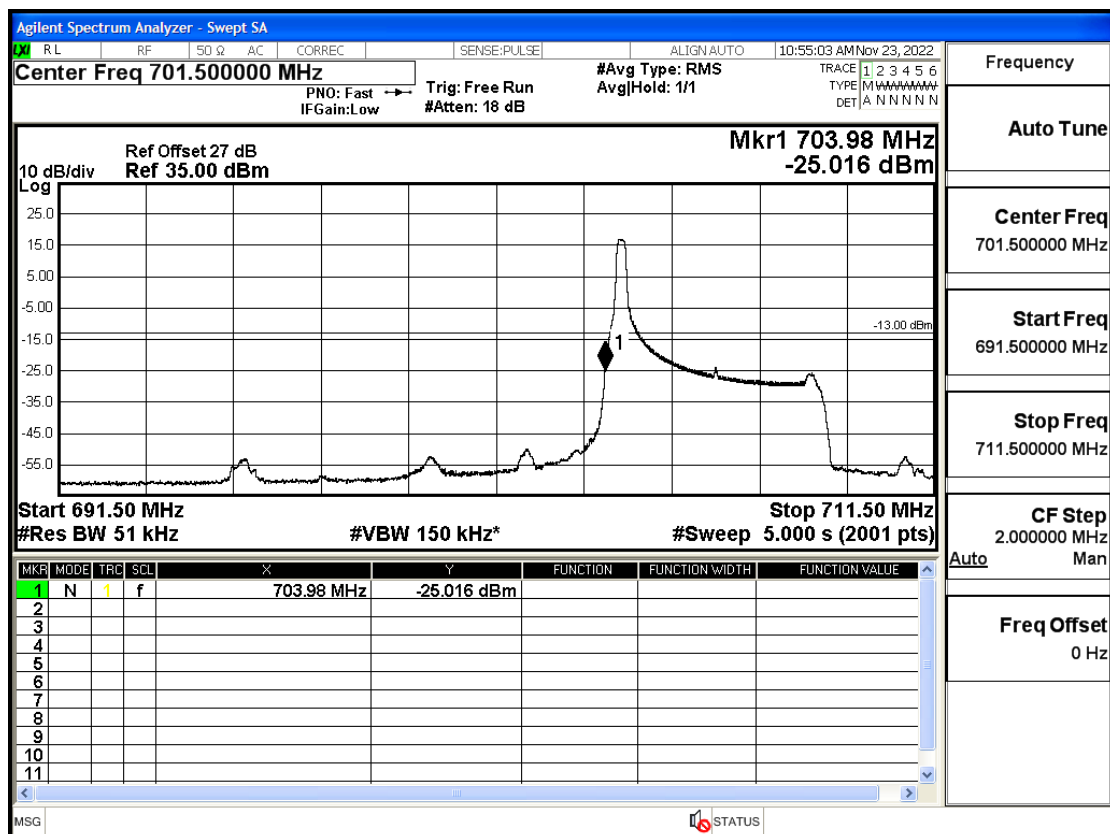
Band Edge and Emission Mask

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Conclusion
Band17	5	706.5	QPSK	25	LOW	Fail
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

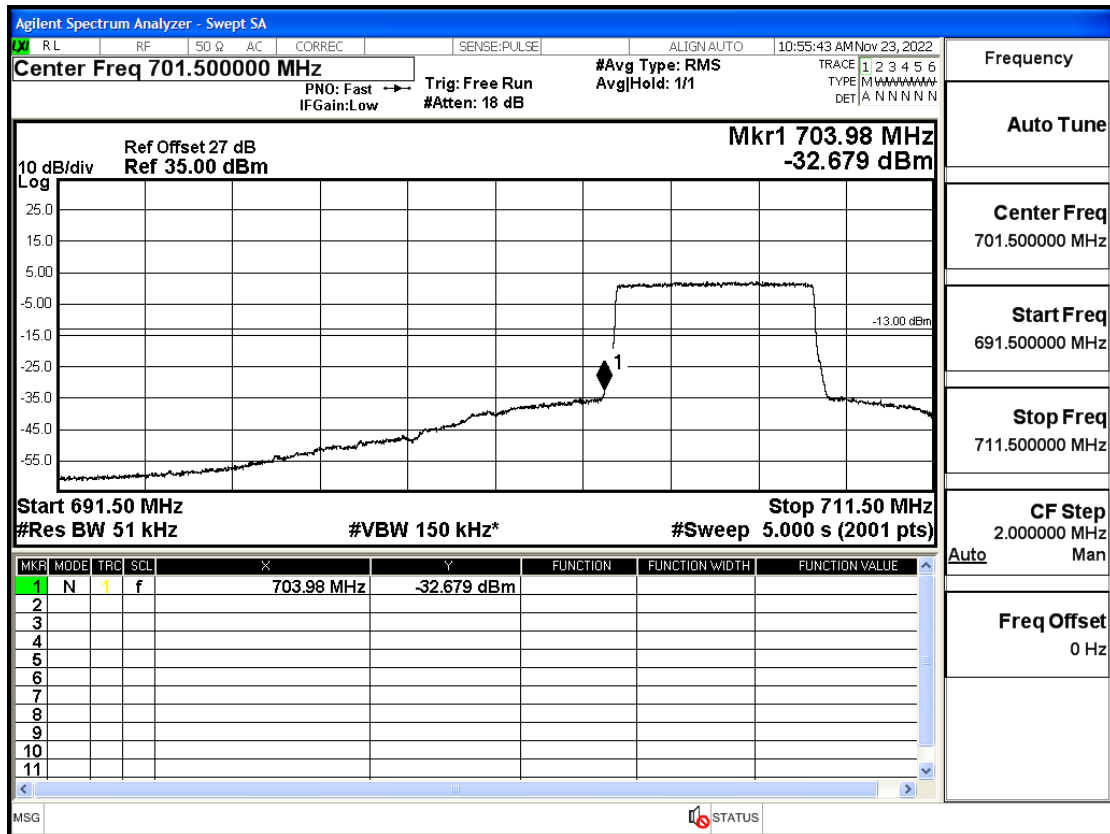
Band17-5-706.5-QPSK-25#LOW@Fail



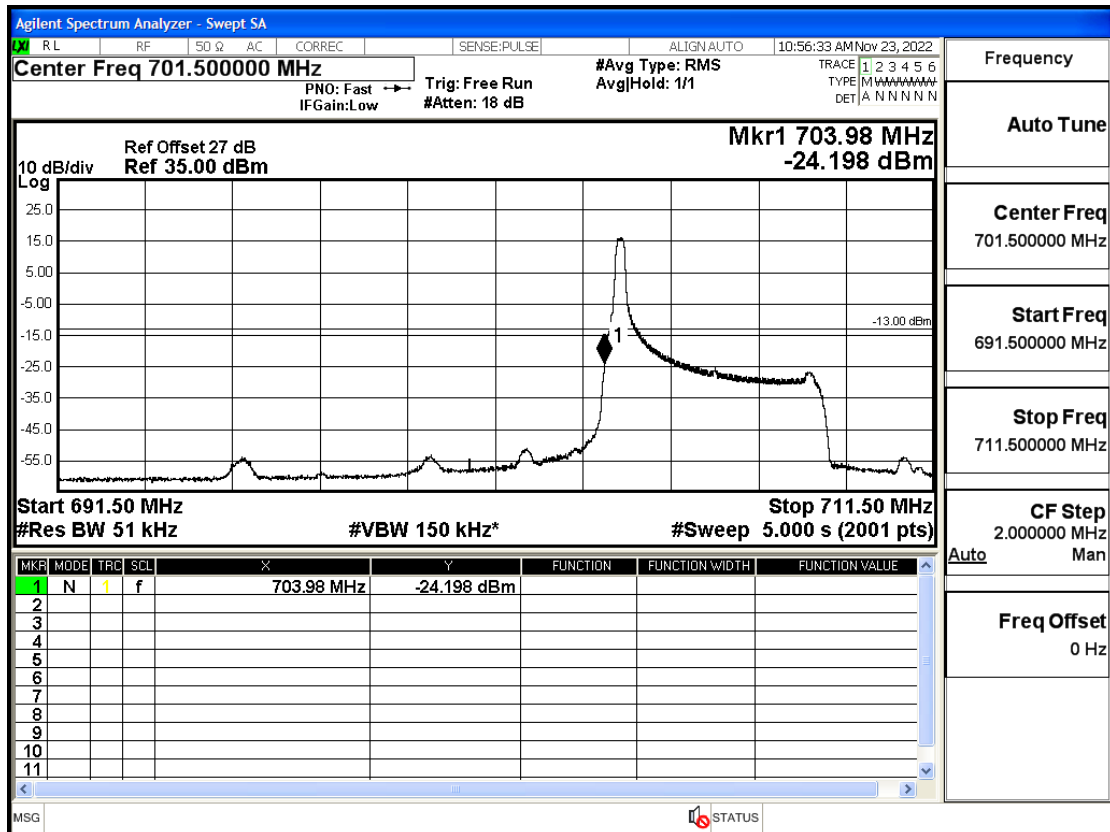
Band17-5-706.5-QPSK-1#LOW@Pass



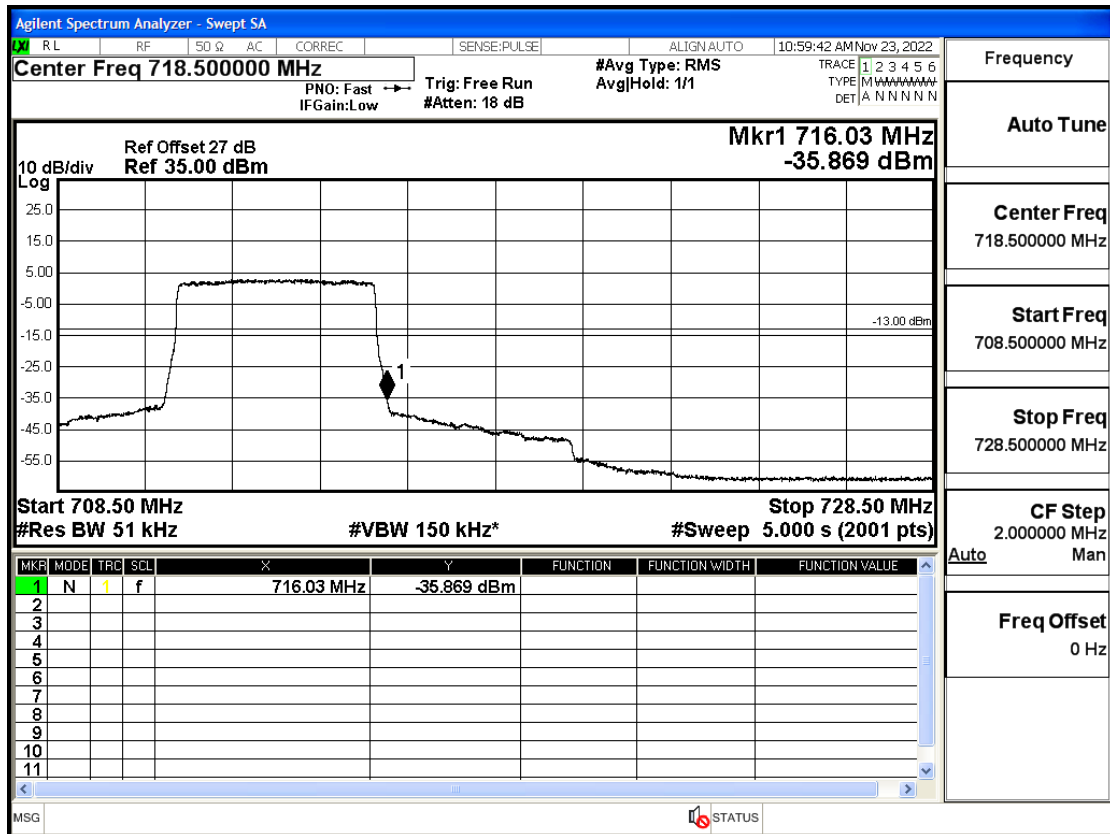
Band17-5-706.5-16QAM-25#LOW@Pass



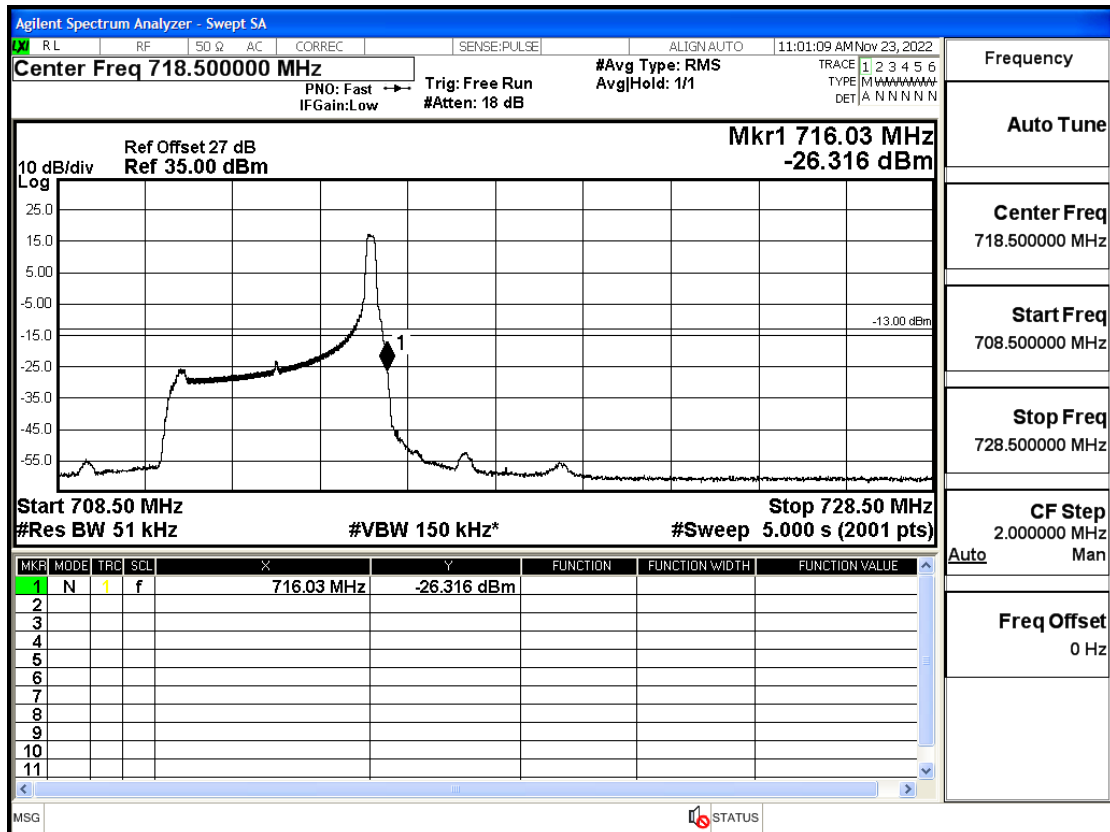
Band17-5-706.5-16QAM-1#LOW@Pass



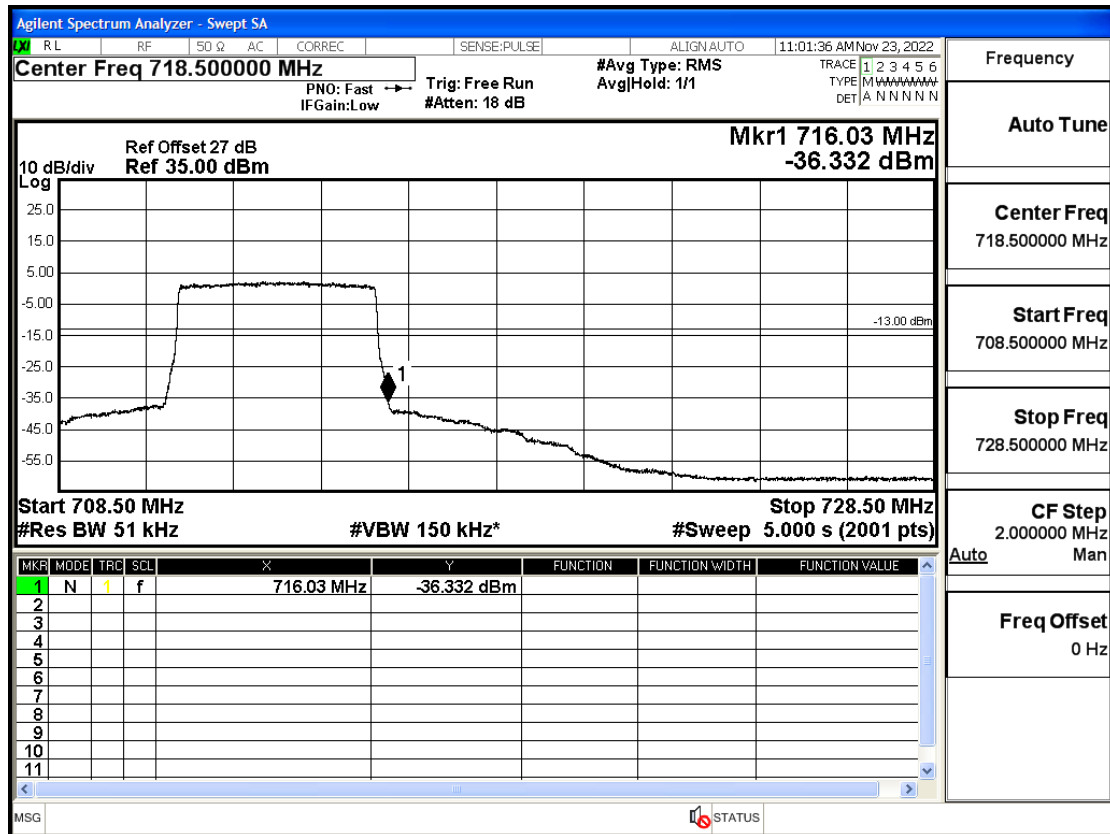
Band17-5-713.5-QPSK-25#LOW@Pass



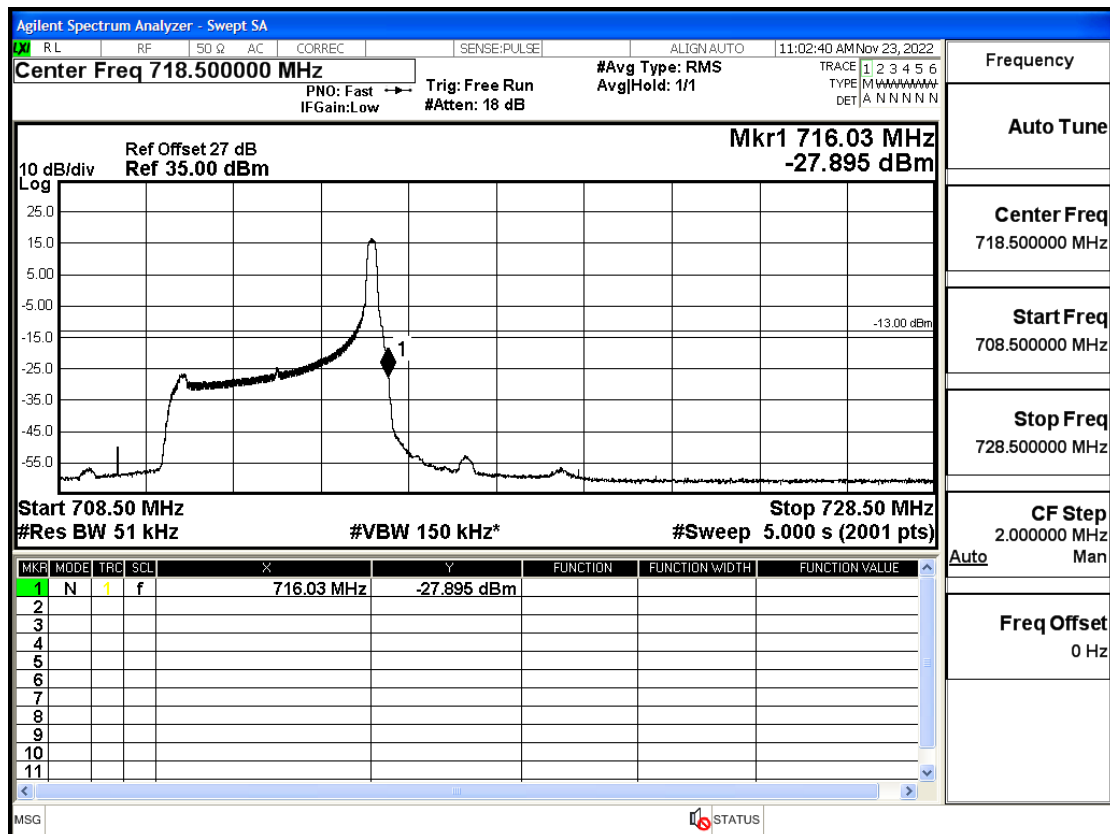
Band17-5-713.5-QPSK-1#HIGH@Pass



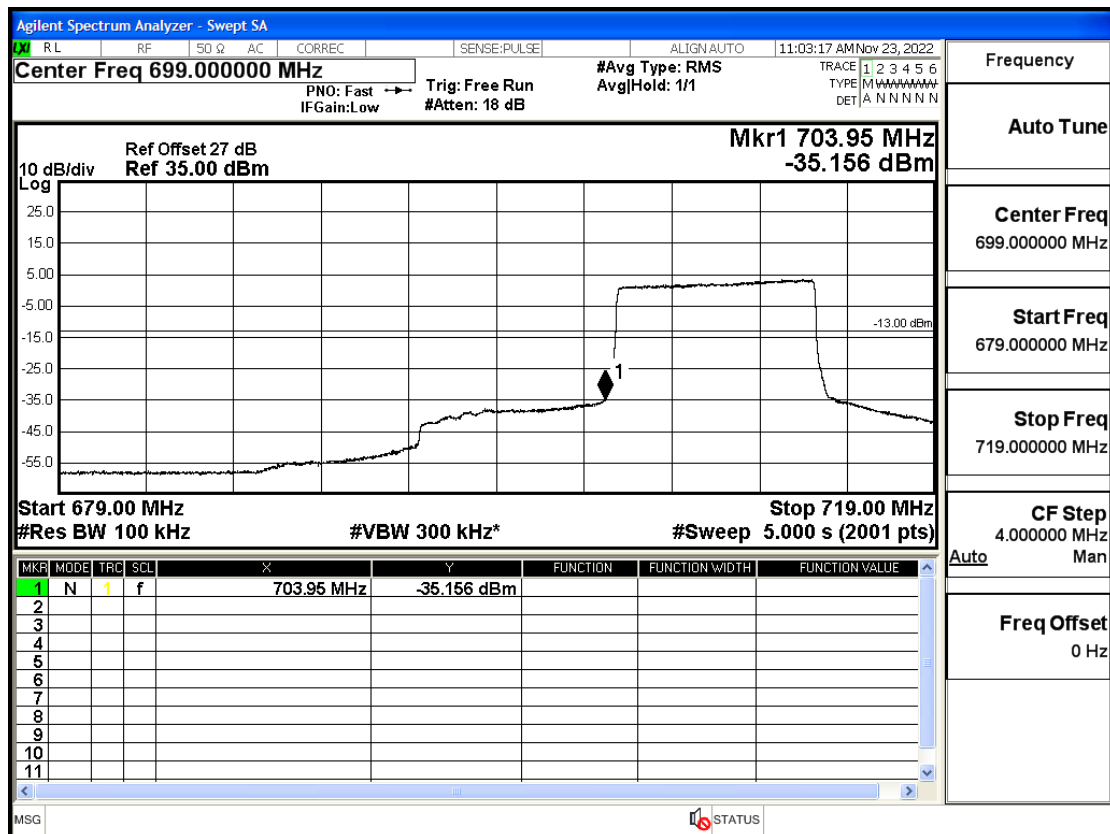
Band17-5-713.5-16QAM-25#LOW@Pass



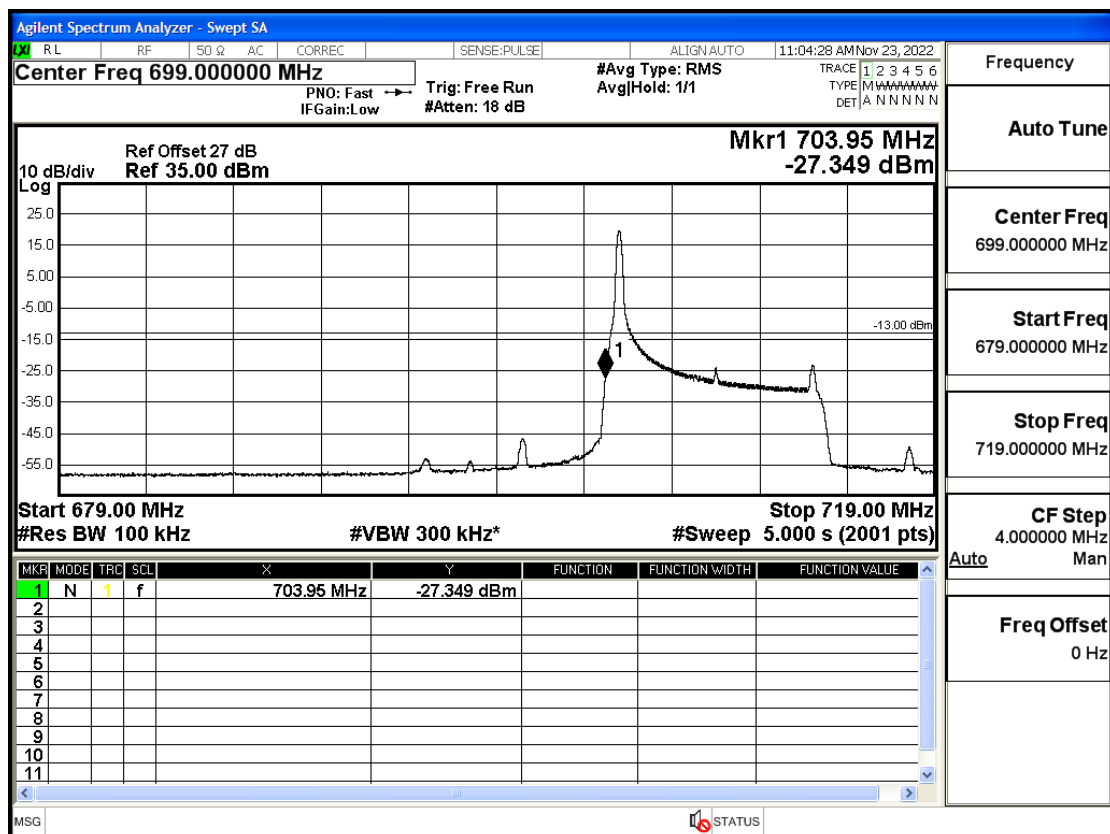
Band17-5-713.5-16QAM-1#HIGH@Pass



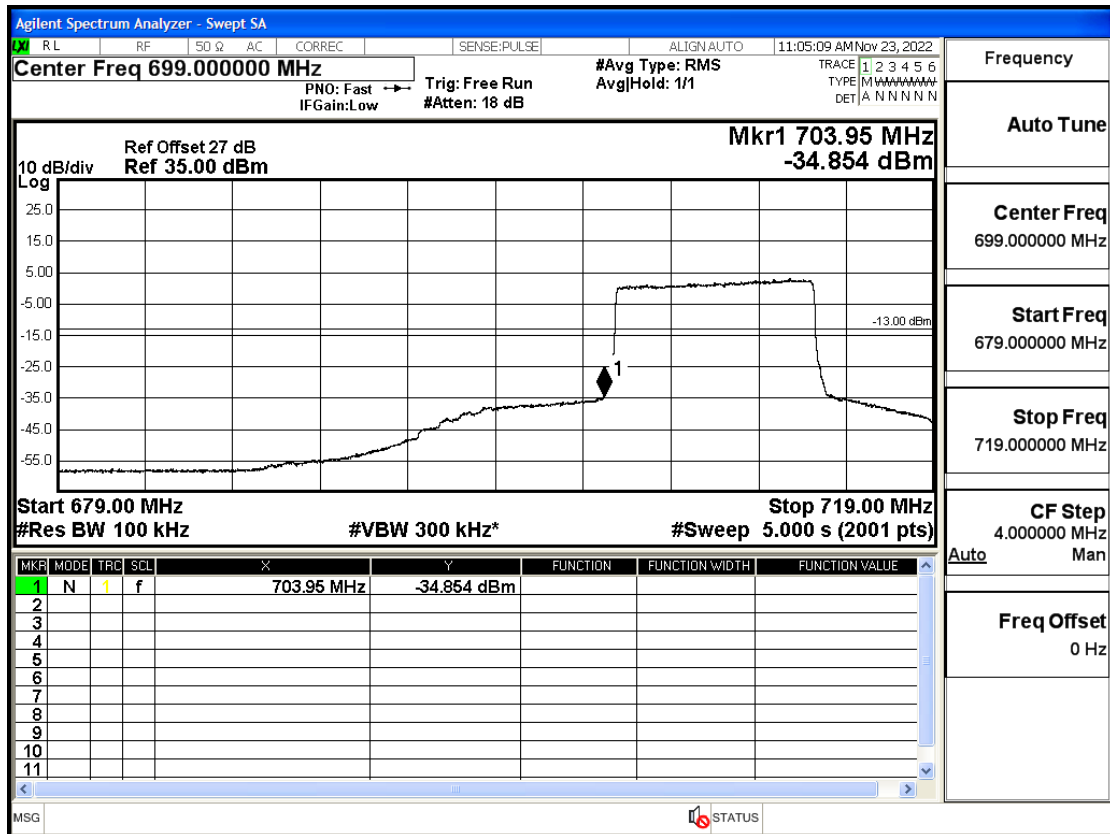
Band17-10-709-QPSK-50#LOW@Pass



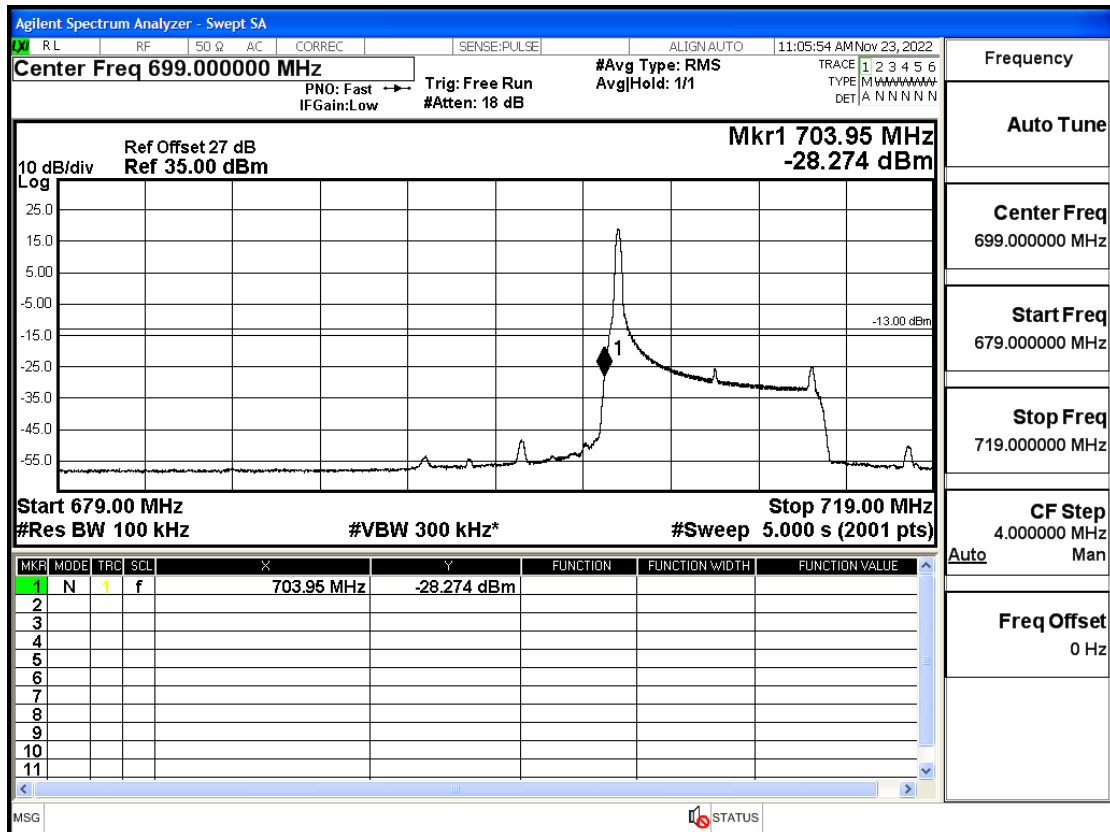
Band17-10-709-QPSK-1#LOW@Pass



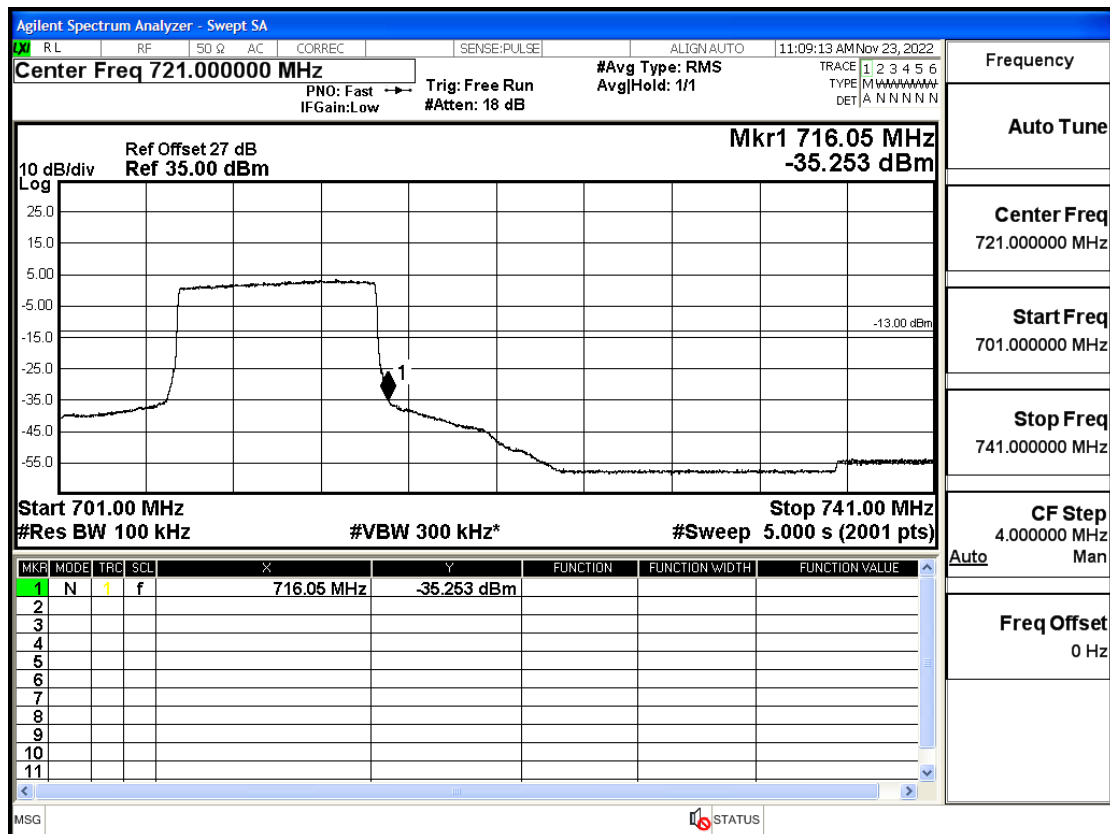
Band17-10-709-16QAM-50#LOW@Pass



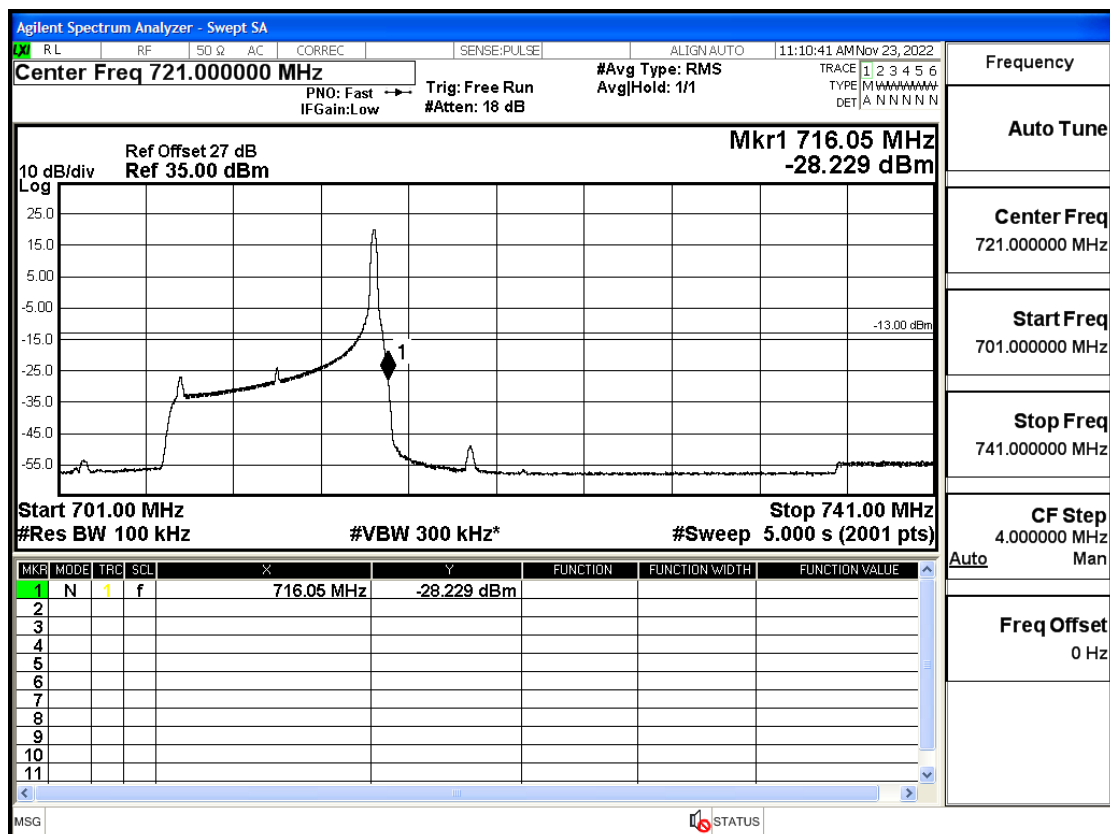
Band17-10-709-16QAM-1#LOW@Pass



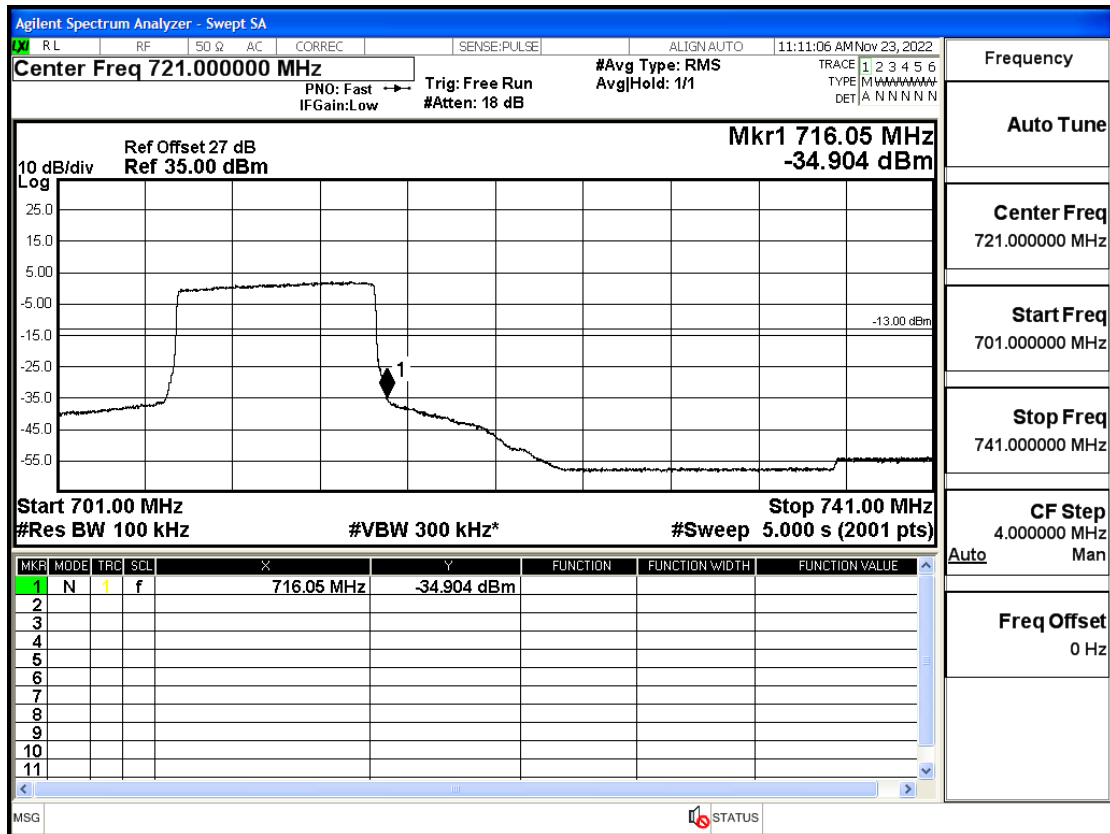
Band17-10-711-QPSK-50#LOW@Pass



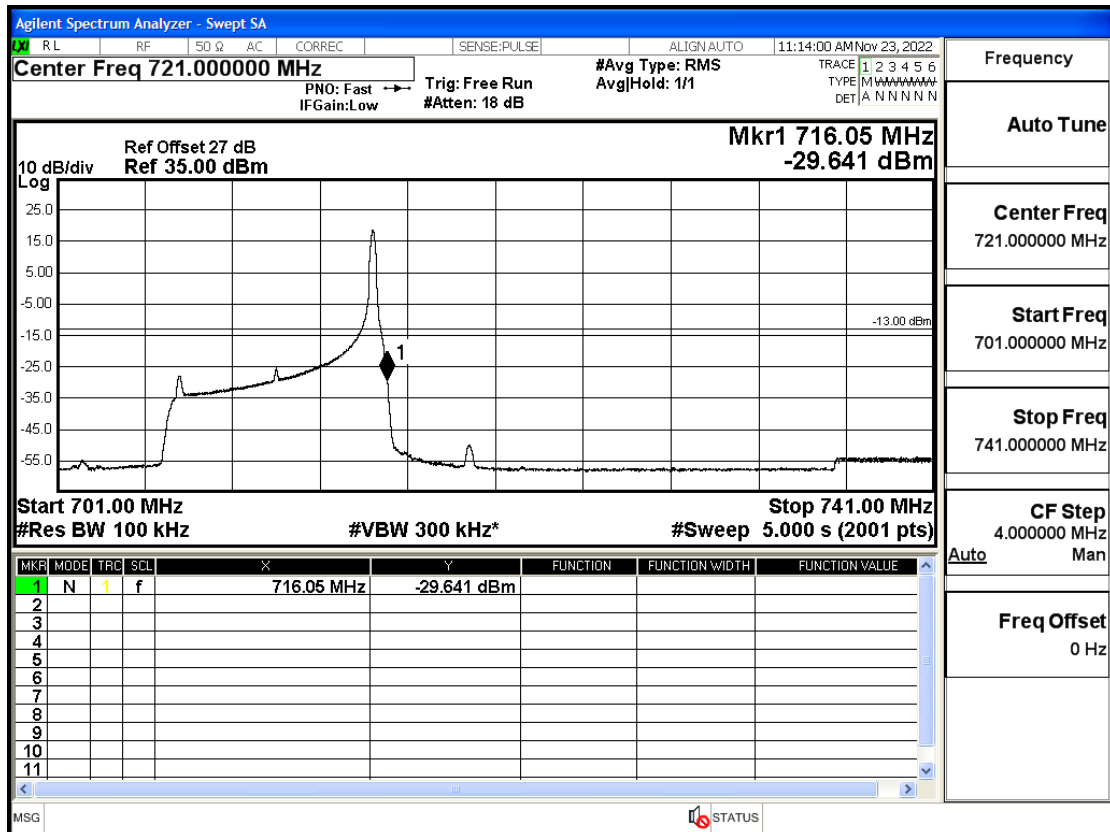
Band17-10-711-QPSK-1#HIGH@Pass



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



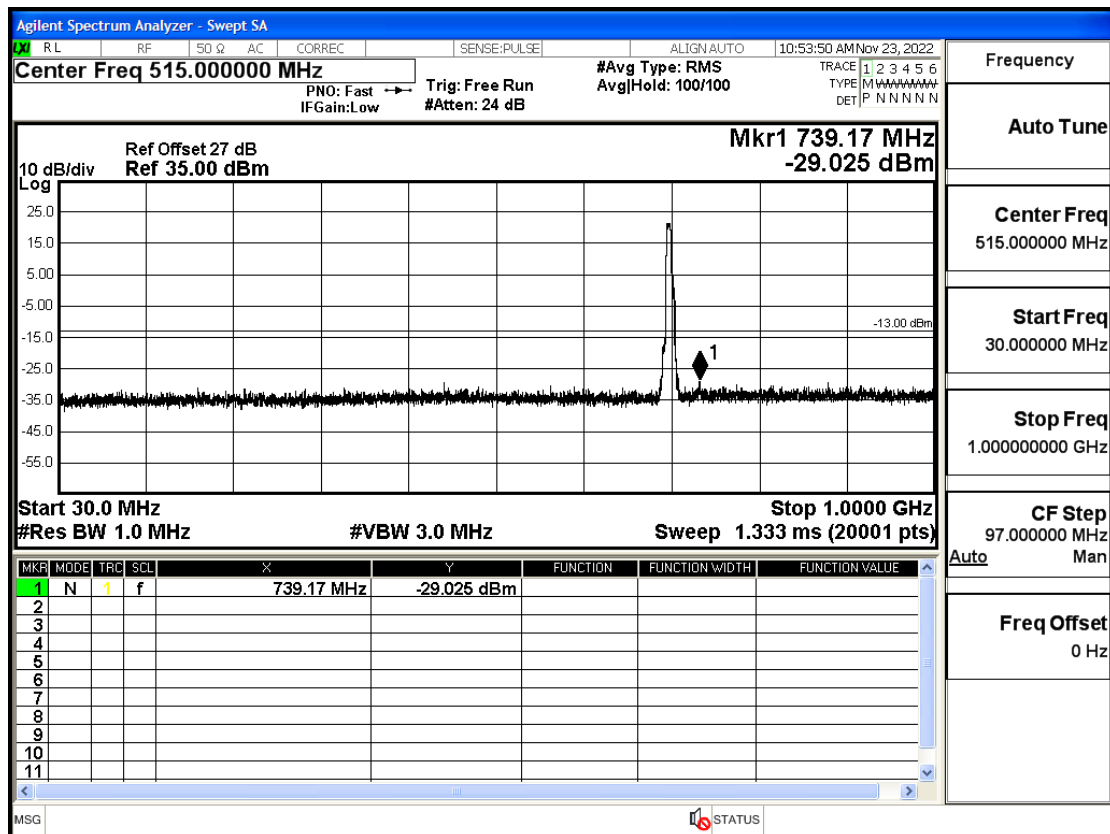
Band17-10-711-16QAM-1#HIGH@Pass



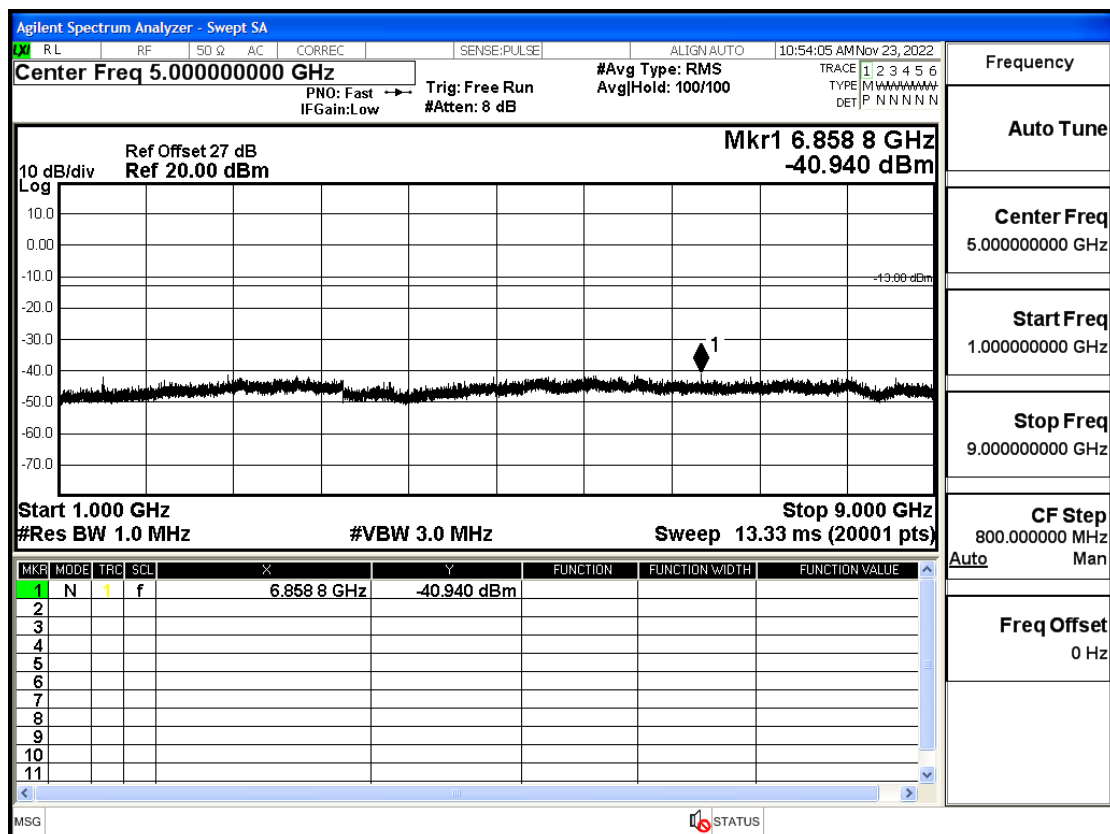
Conducted Spurious Emission

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

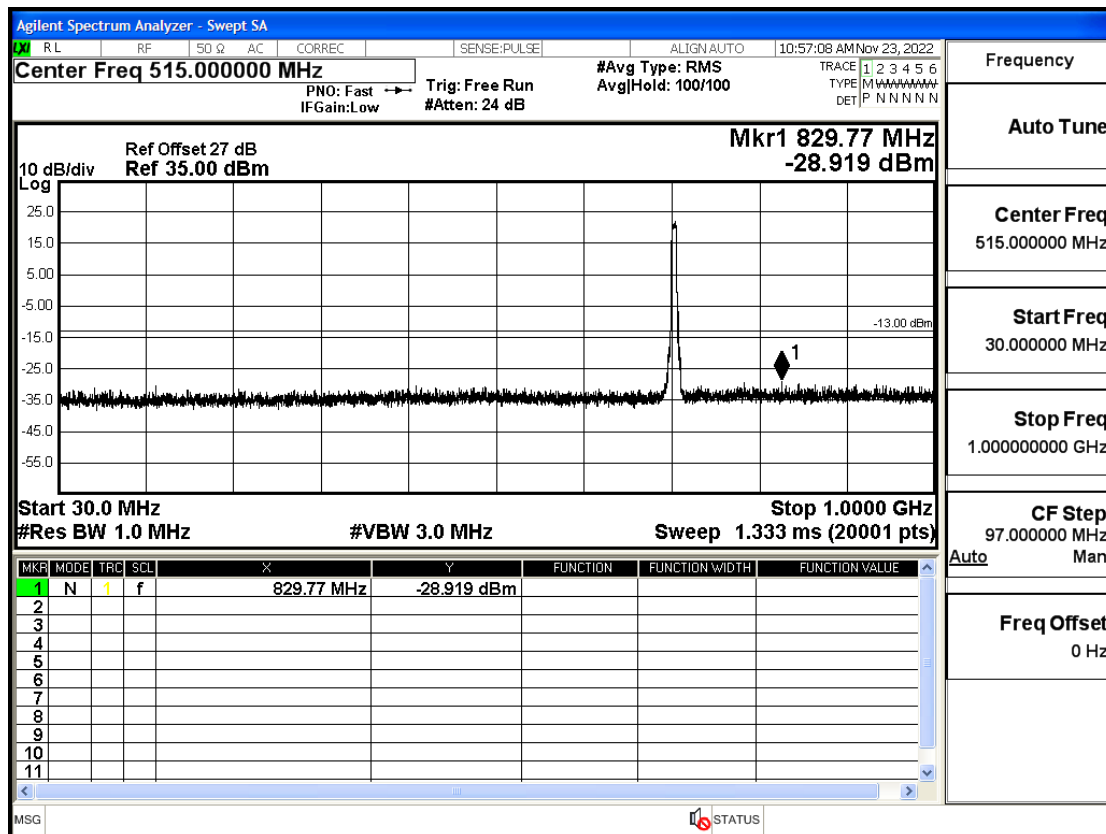
OB17-5-706.5-QPSK-25#LOW@30mHz-1GHz@Pass



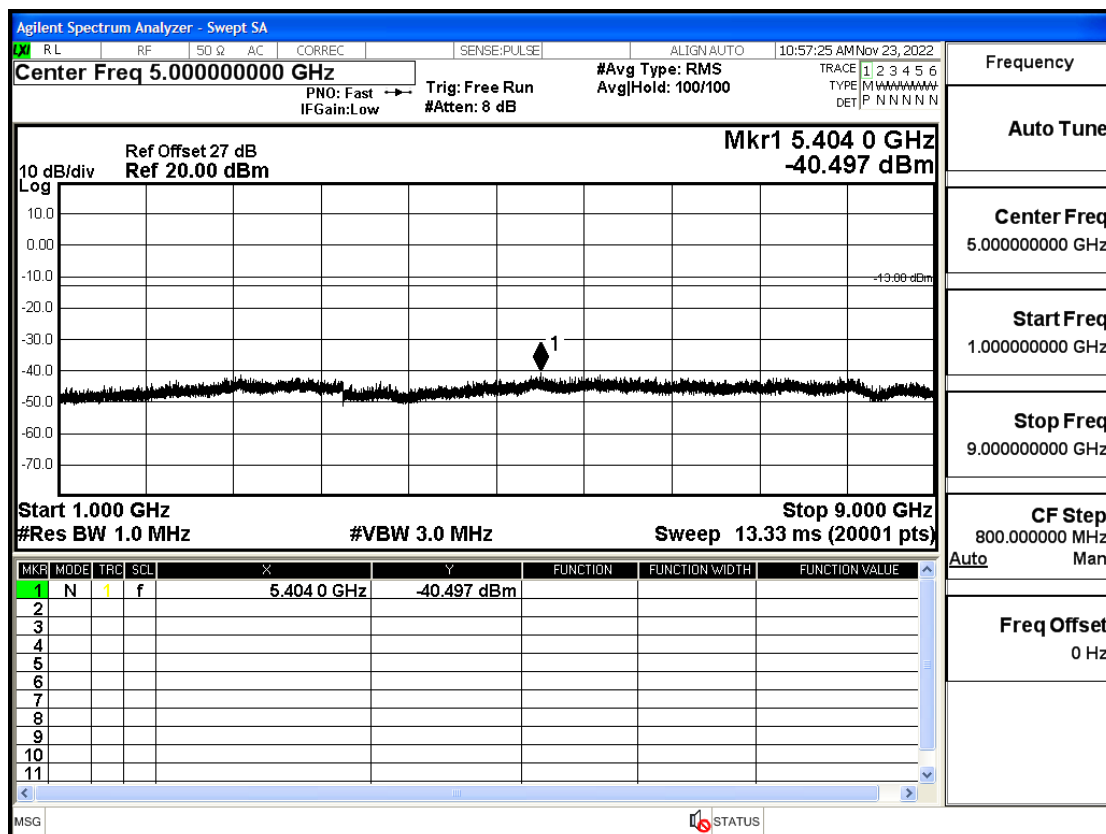
OB17-5-706.5-QPSK-25#LOW@1GHz-9GHz@Pass



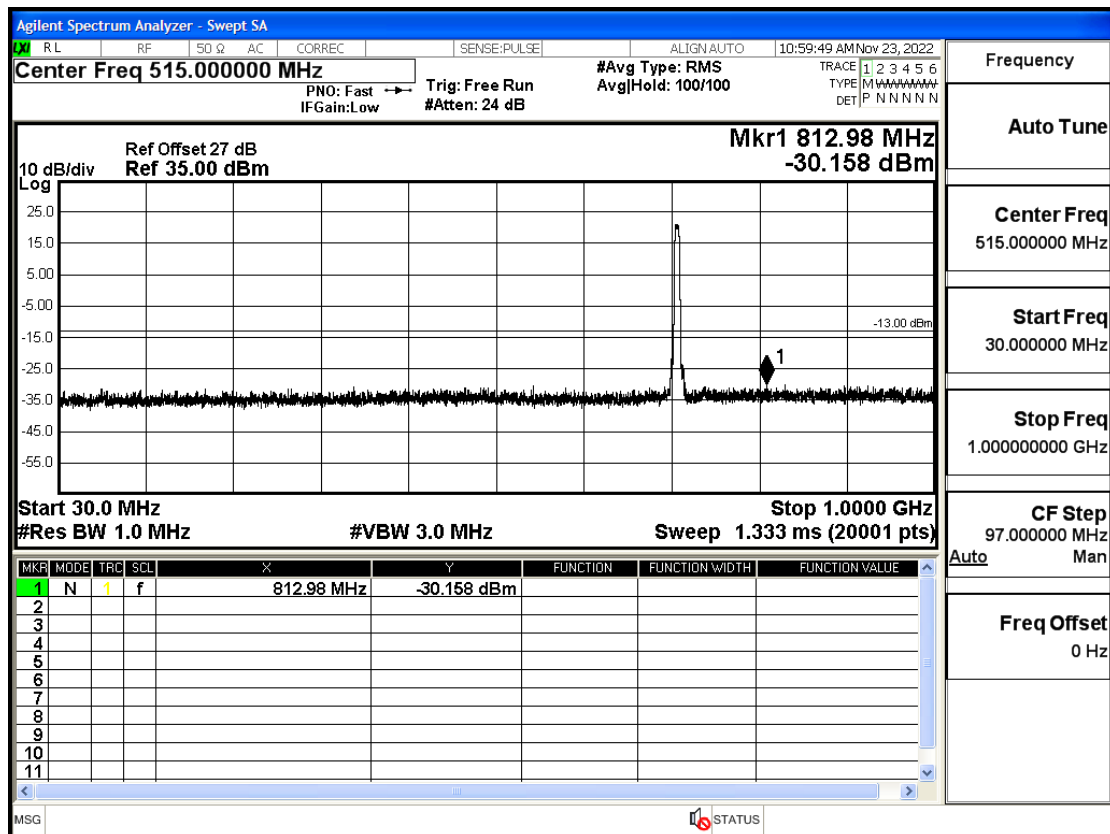
OB17-5-710-QPSK-25#LOW@30mHz-1GHz@Pass



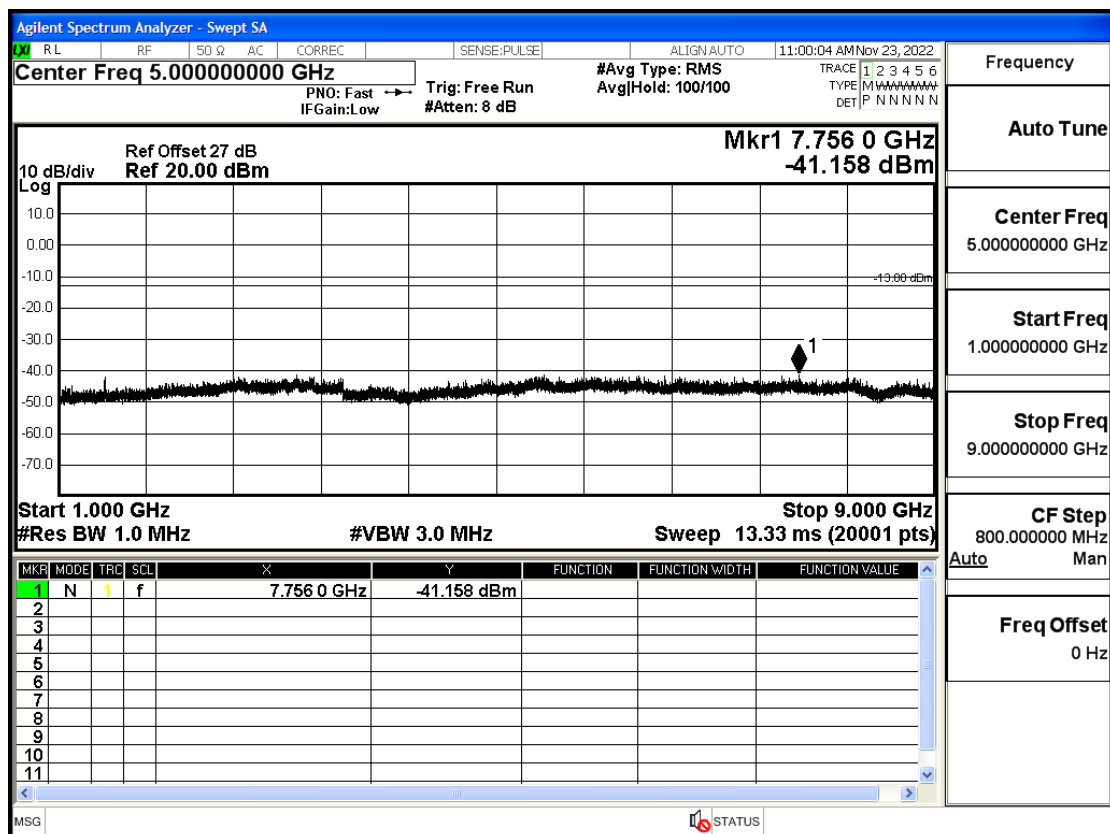
OB17-5-710-QPSK-25#LOW@1GHz-9GHz@Pass



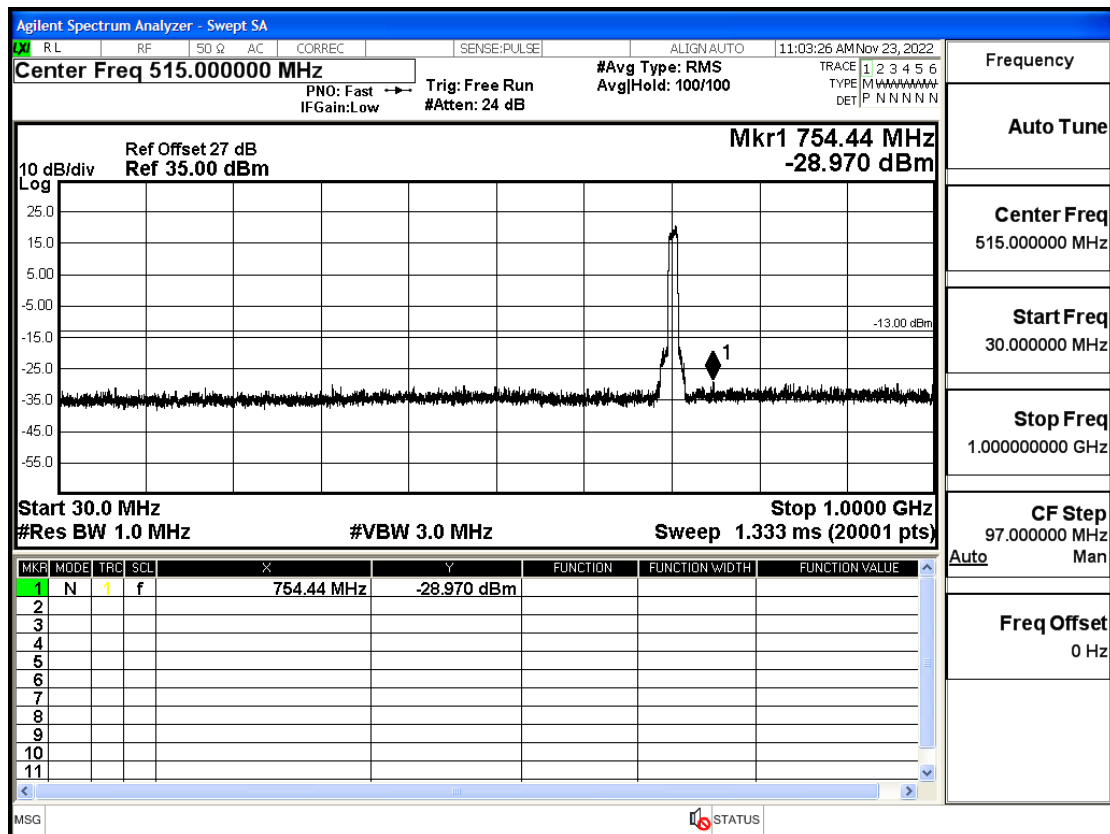
OB17-5-713.5-QPSK-25#LOW@30mHz-1GHz@Pass



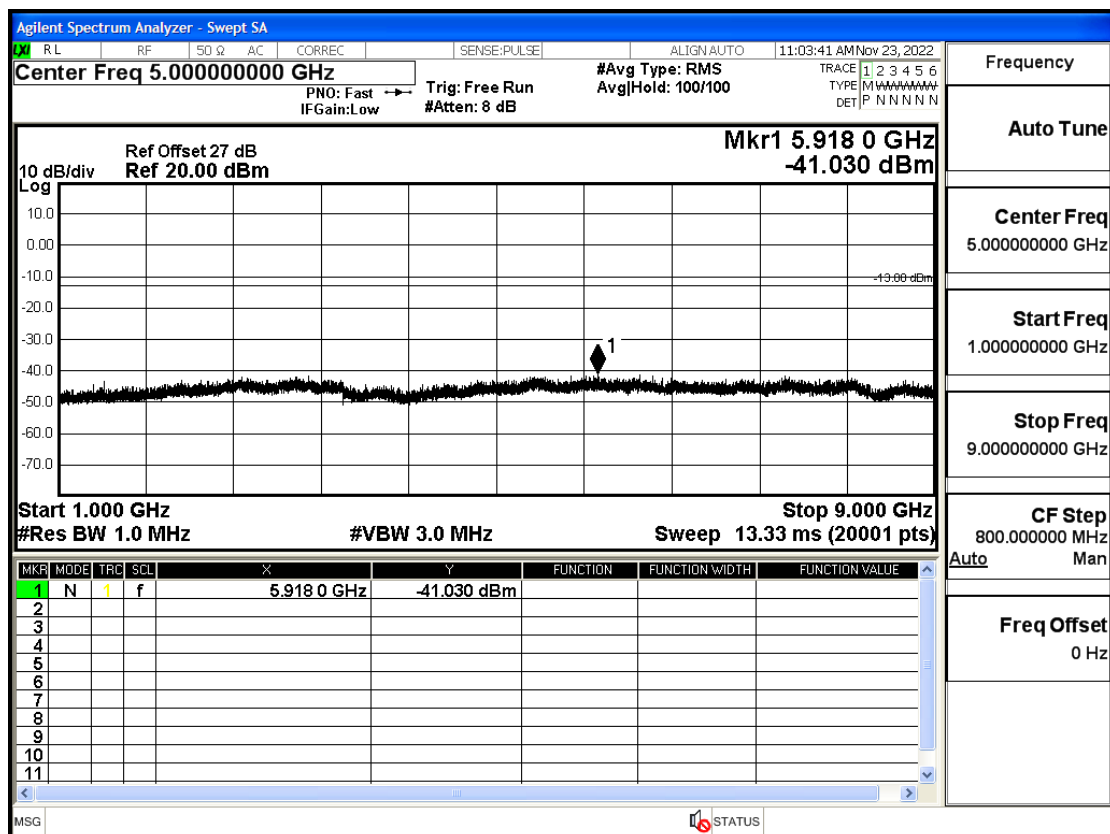
OB17-5-713.5-QPSK-25#LOW@1GHz-9GHz@Pass



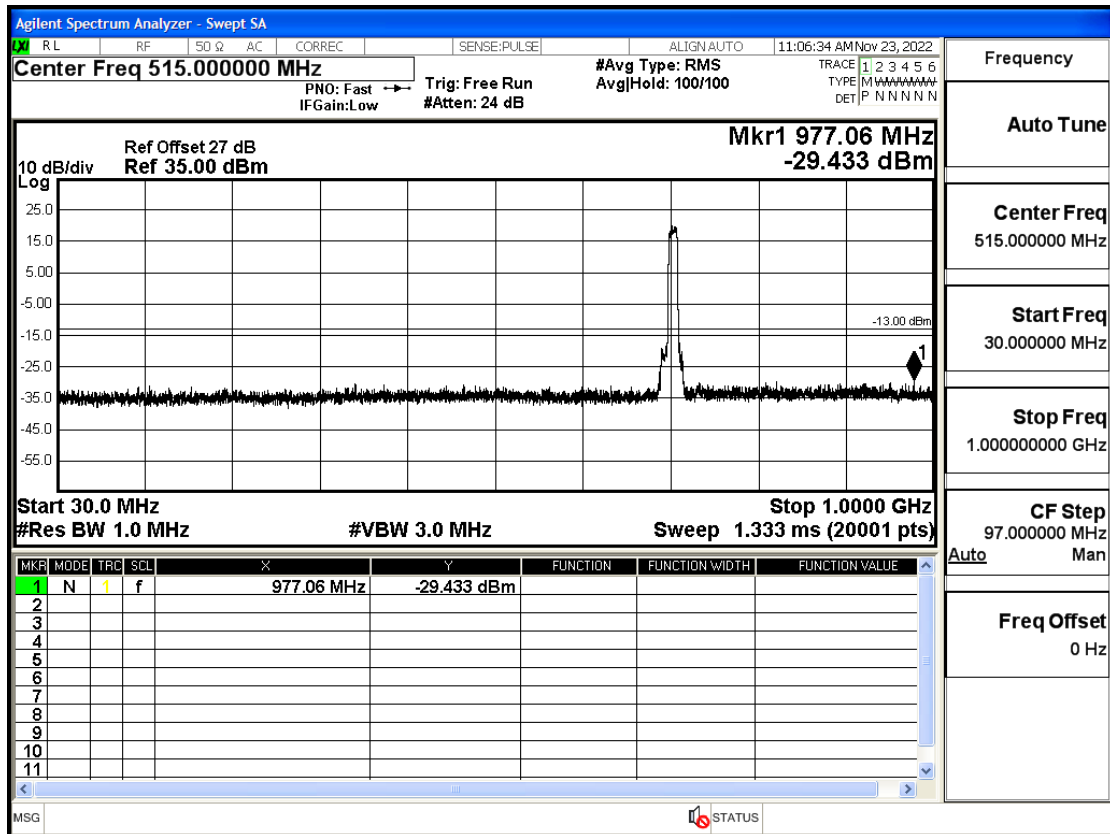
OB17-10-709-QPSK-50#LOW@30mHz-1GHz@Pass



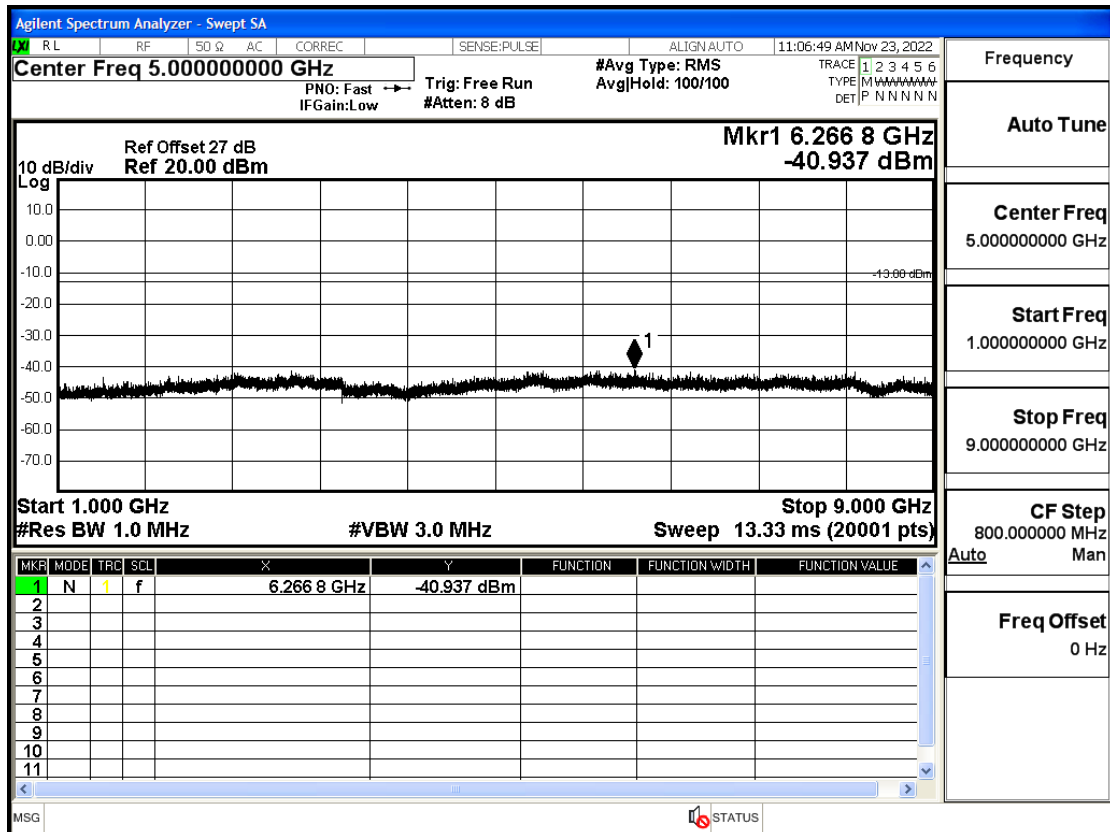
OB17-10-709-QPSK-50#LOW@1GHz-9GHz@Pass



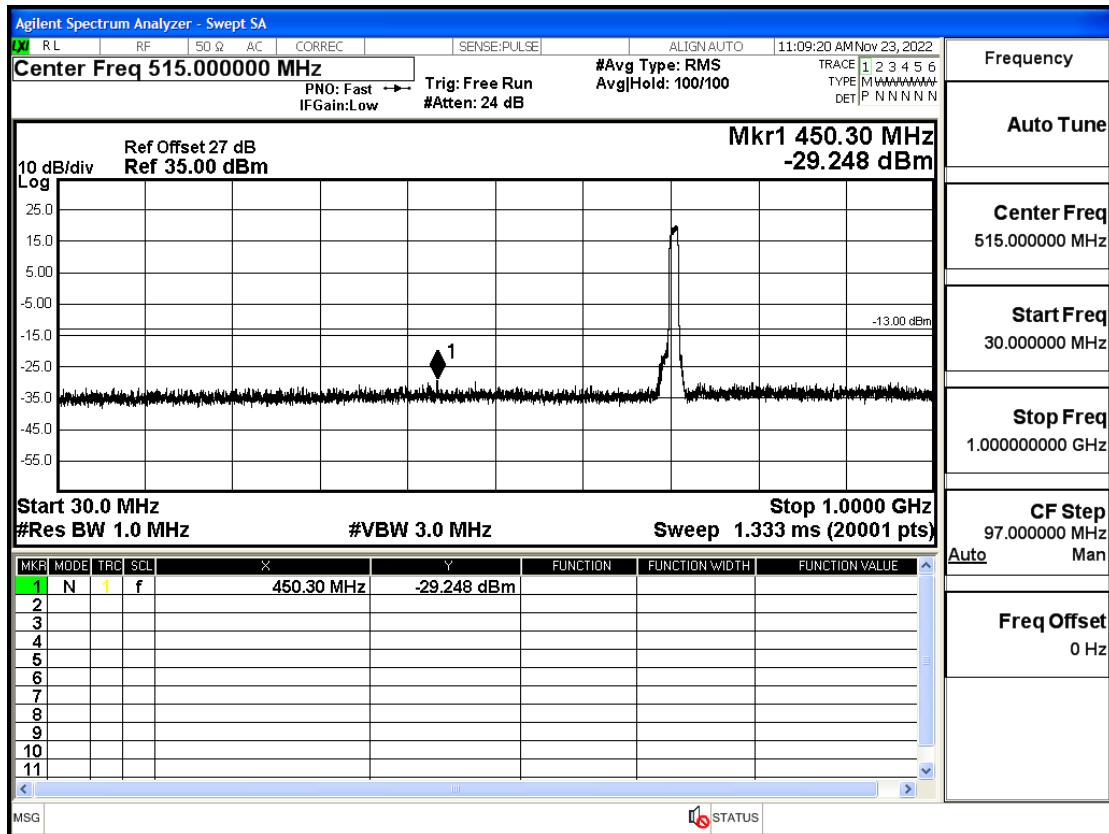
OB17-10-710-QPSK-50#LOW@30mHz-1GHz@Pass



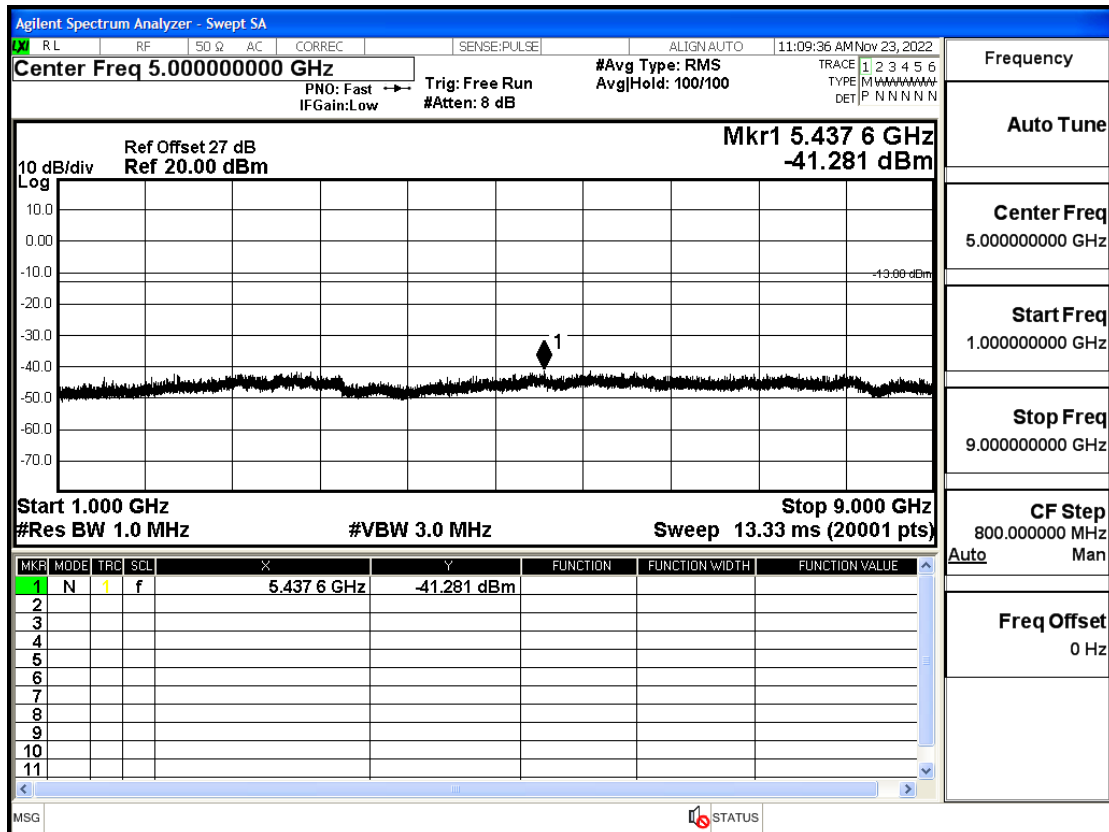
OB17-10-710-QPSK-50#LOW@1GHz-9GHz@Pass



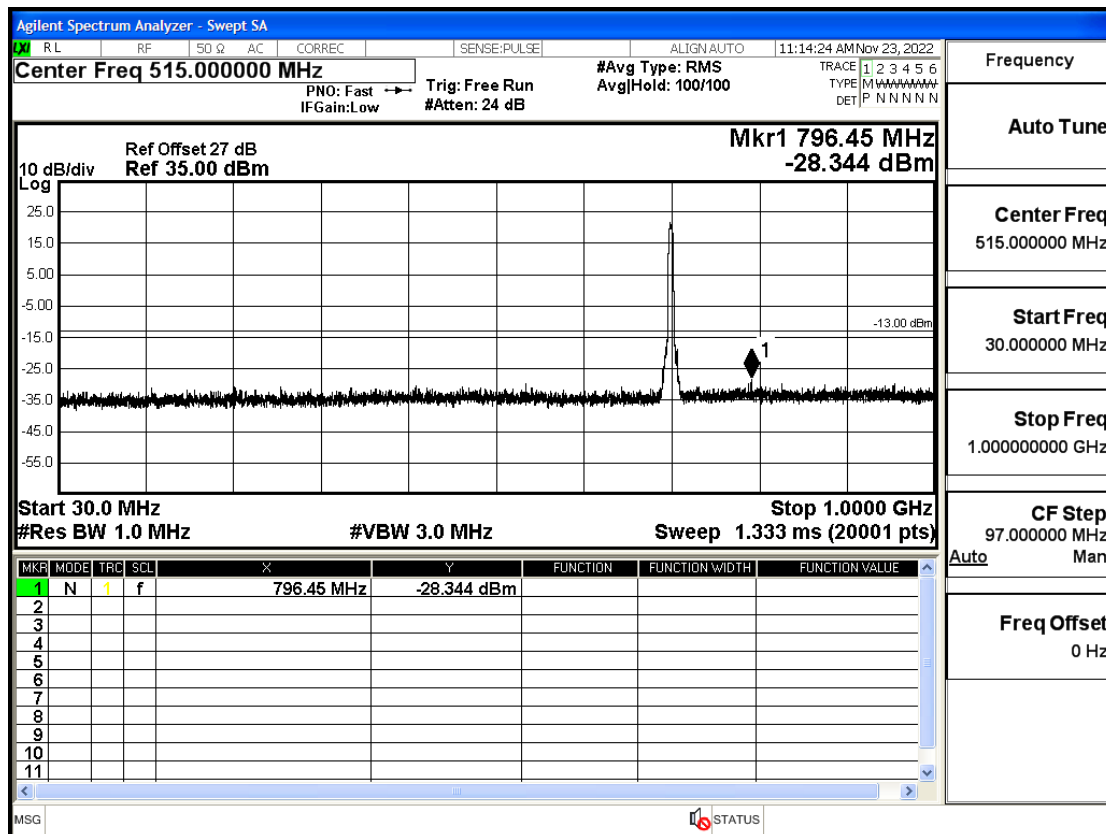
OB17-10-711-QPSK-50#LOW@30mHz-1GHz@Pass



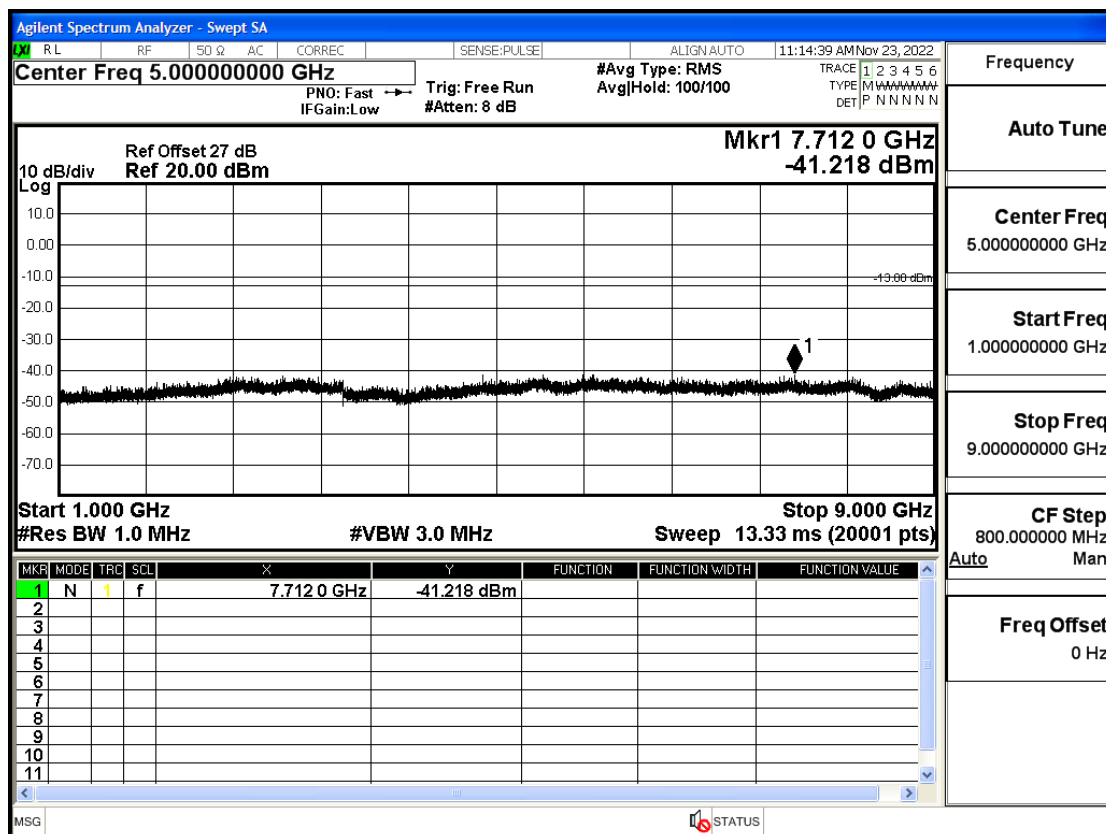
OB17-10-711-QPSK-50#LOW@1GHz-9GHz@Pass



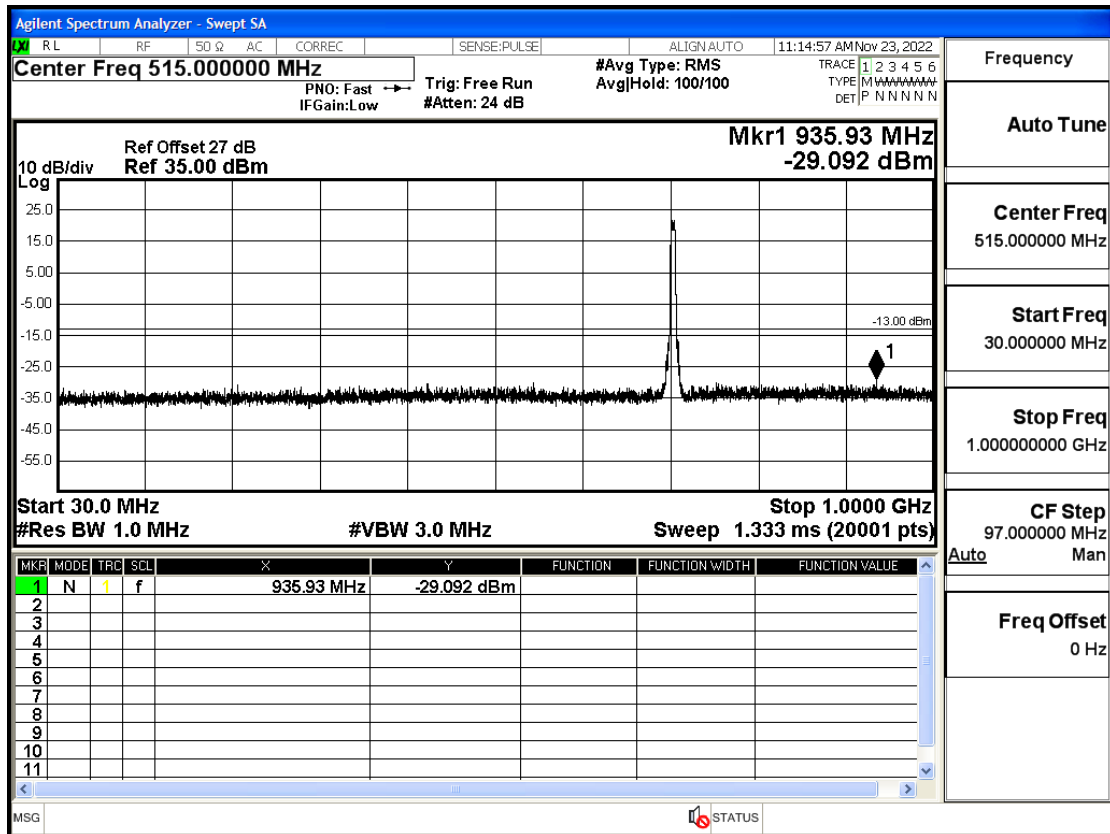
OB17-5-706.5-Q16-25#LOW@30mHz-1GHz@Pass



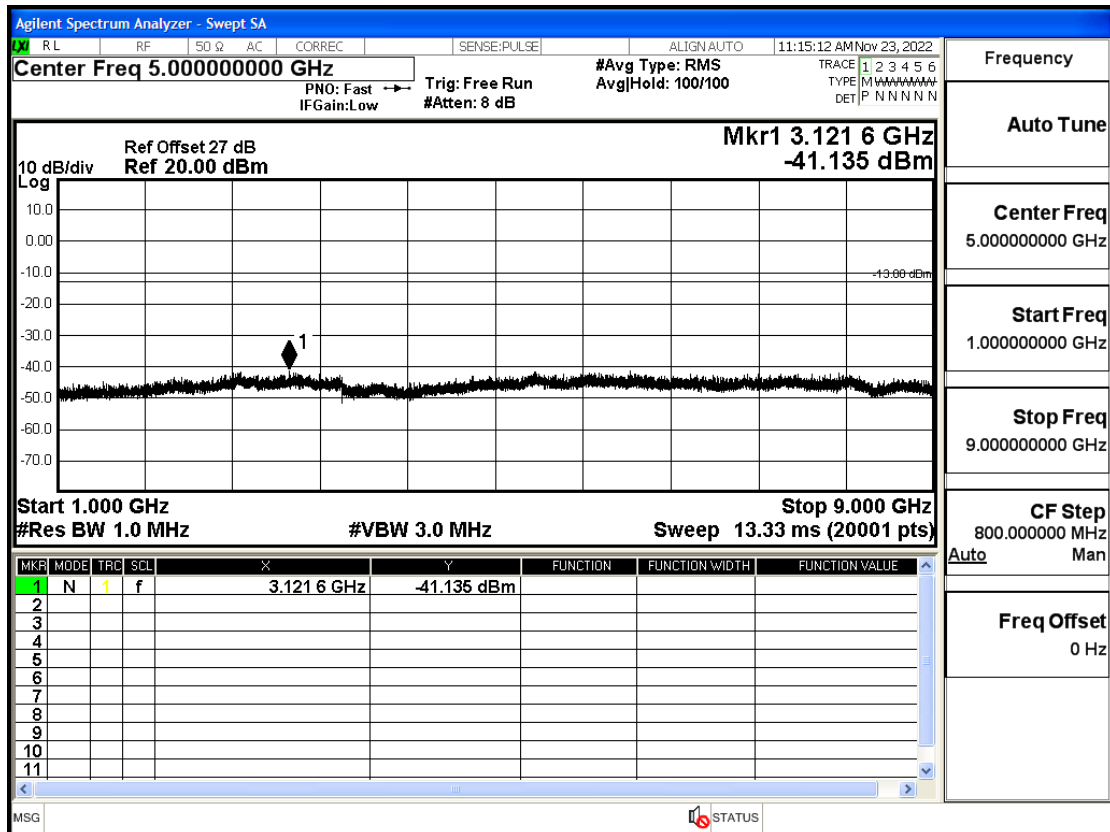
OB17-5-706.5-Q16-25#LOW@1GHz-9GHz@Pass



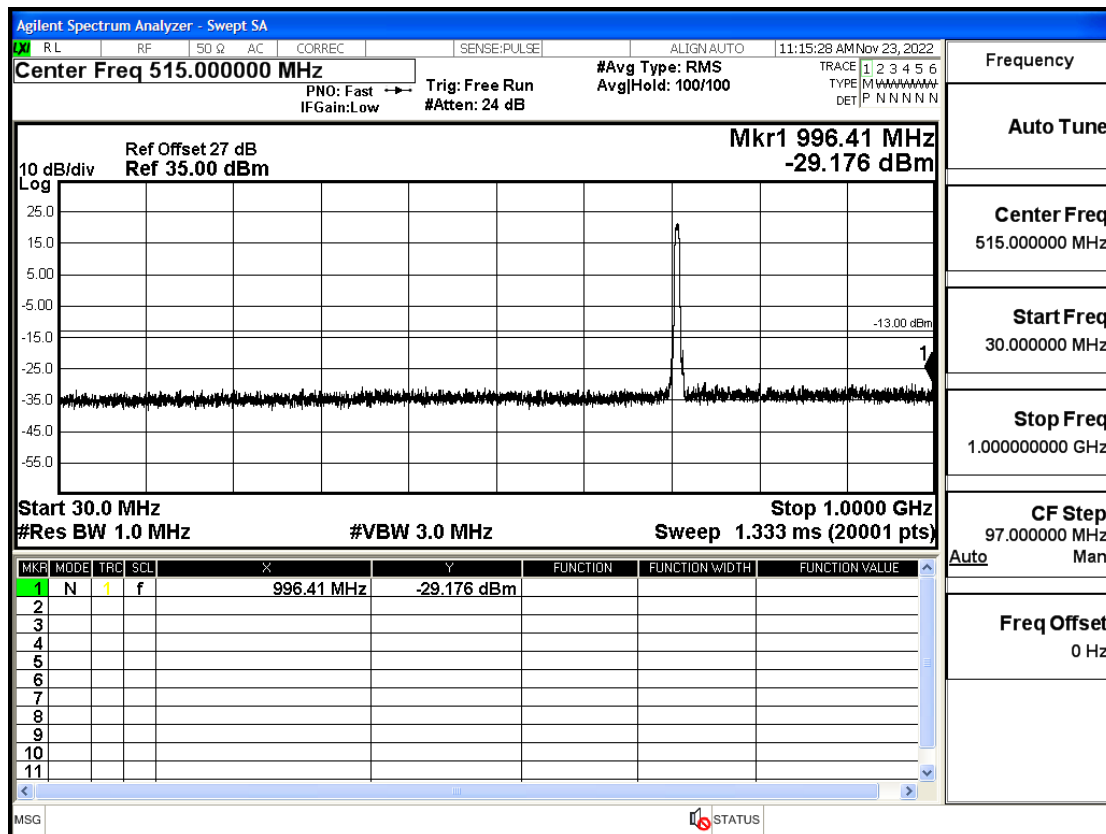
OB17-5-710-Q16-25#LOW@30mHz-1GHz@Pass



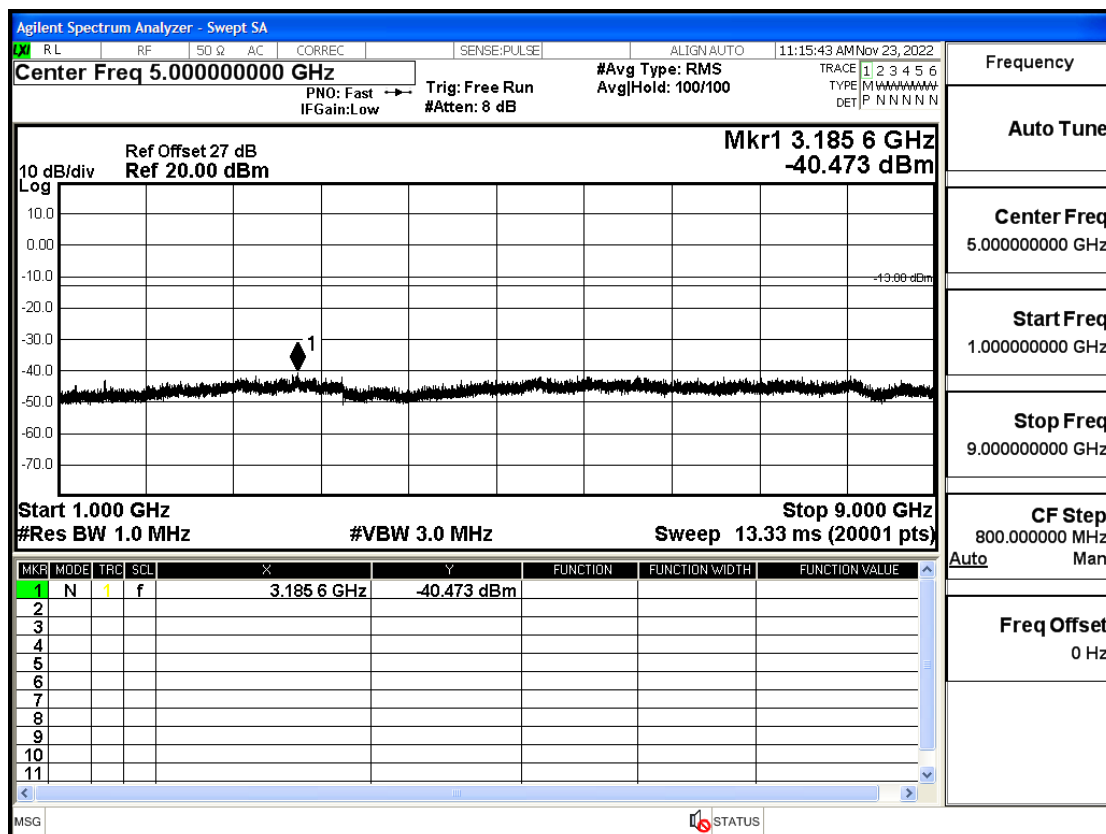
OB17-5-710-Q16-25#LOW@1GHz-9GHz@Pass



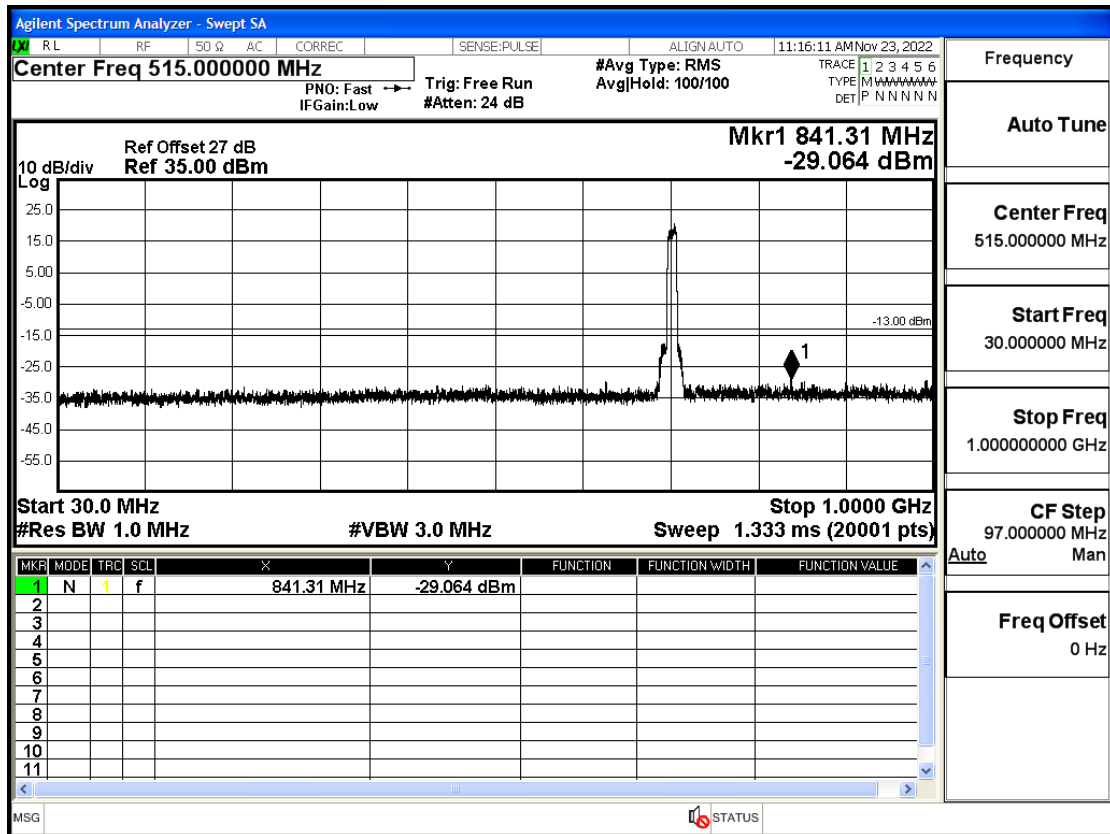
OB17-5-713.5-Q16-25#LOW@30mHz-1GHz@Pass



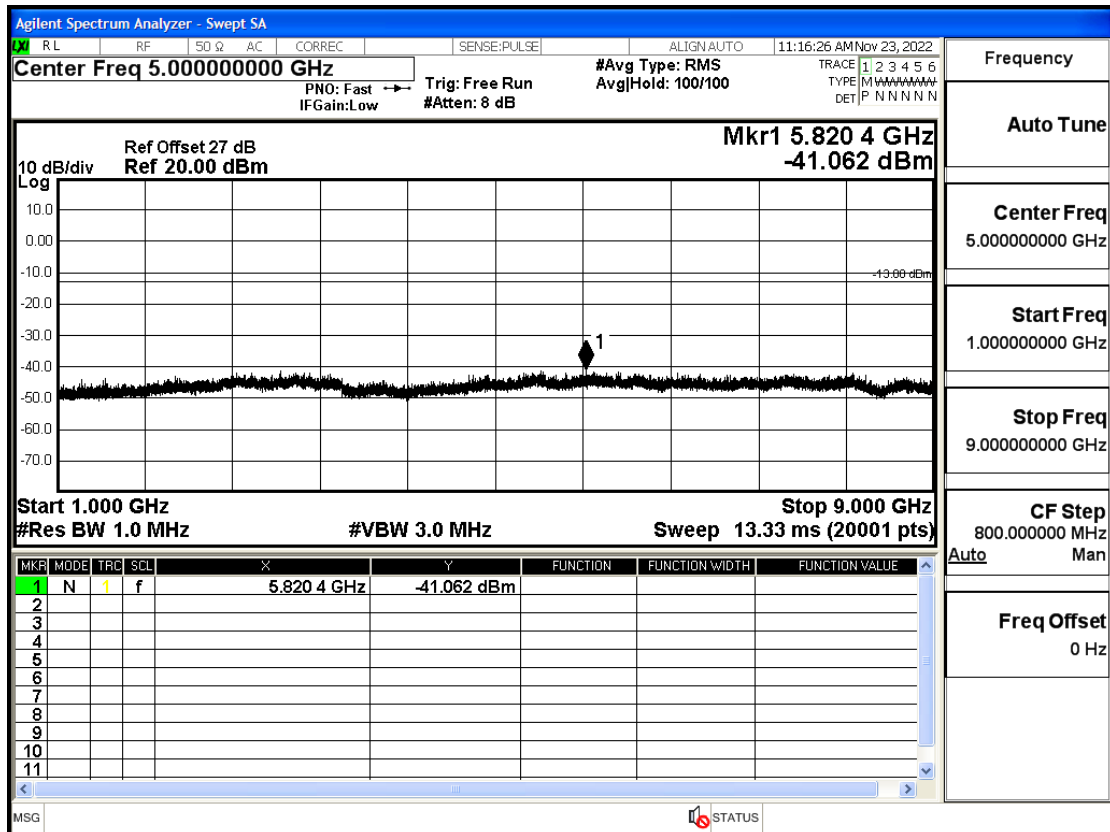
OB17-5-713.5-Q16-25#LOW@1GHz-9GHz@Pass



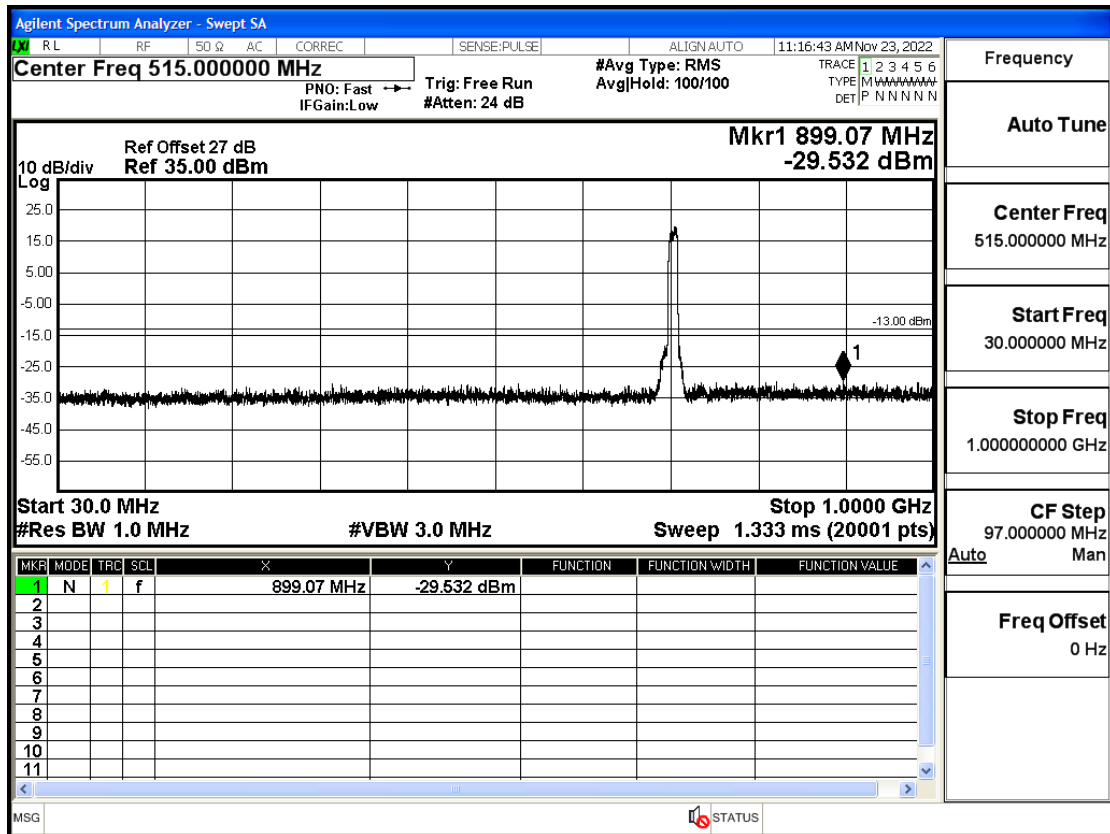
OB17-10-709-Q16-50#LOW@30mHz-1GHz@Pass



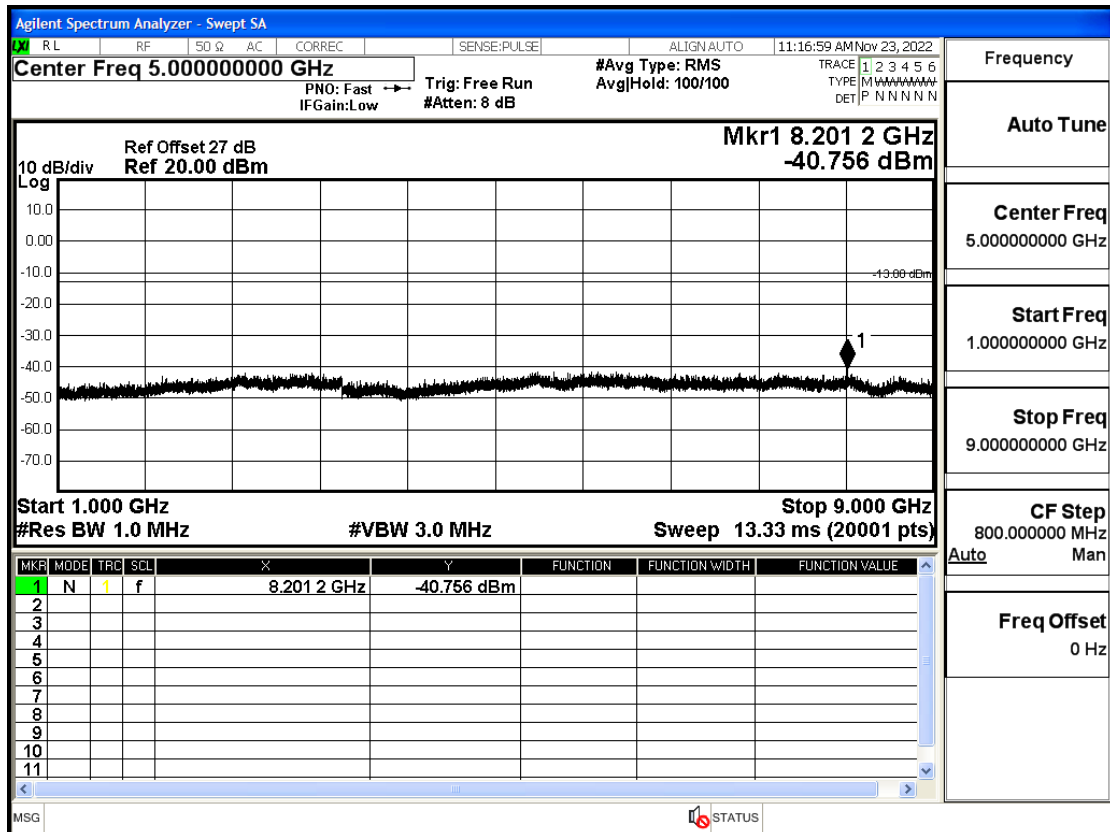
OB17-10-709-Q16-50#LOW@1GHz-9GHz@Pass



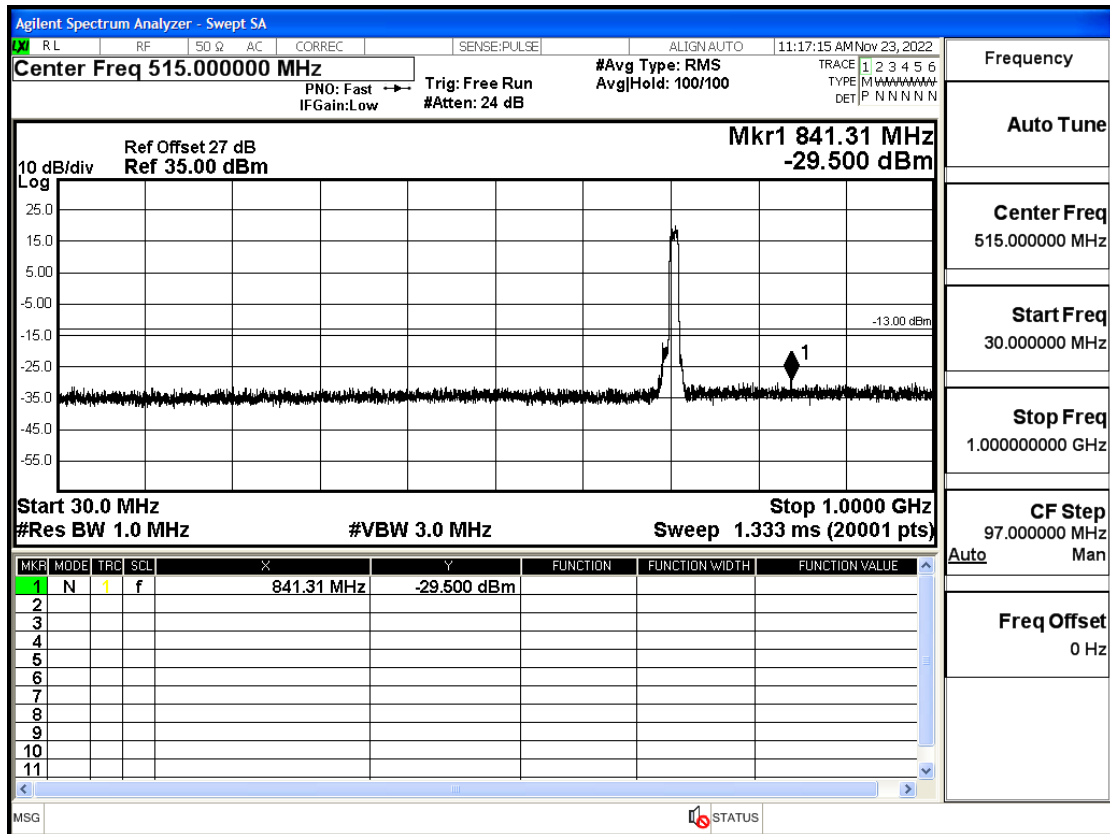
OB17-10-710-Q16-50#LOW@30mHz-1GHz@Pass



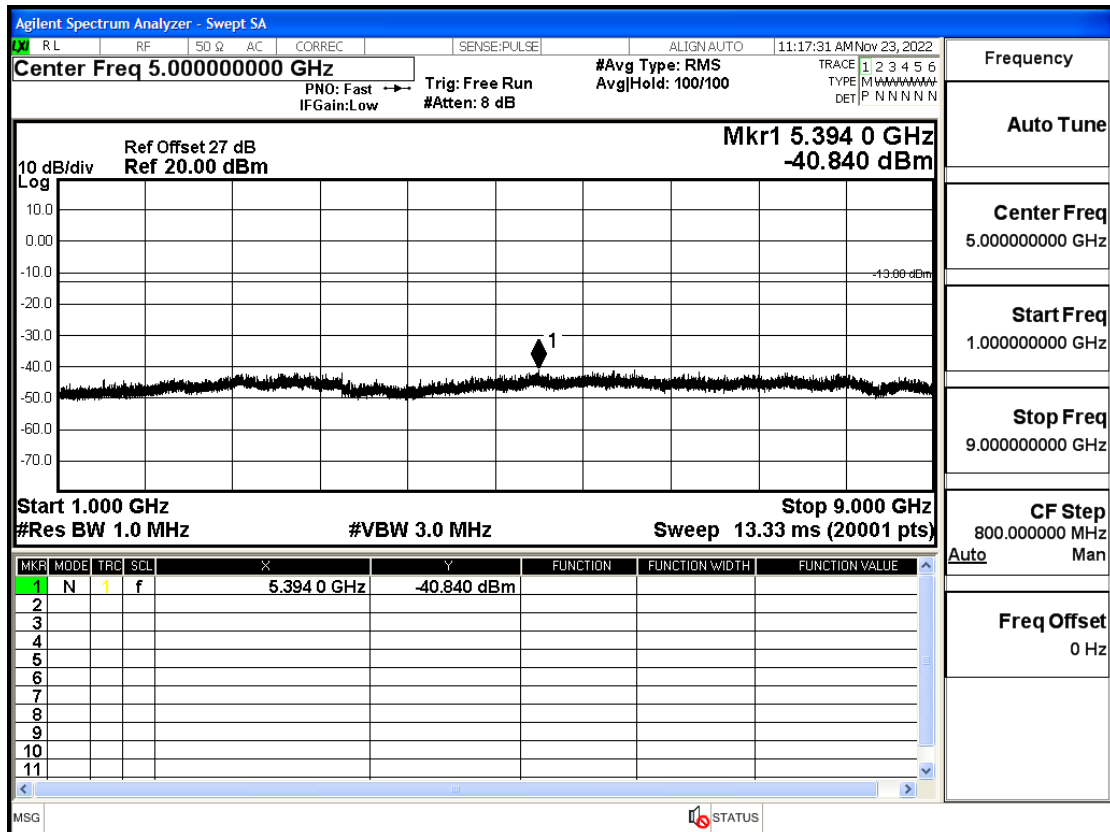
OB17-10-710-Q16-50#LOW@1GHz-9GHz@Pass



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



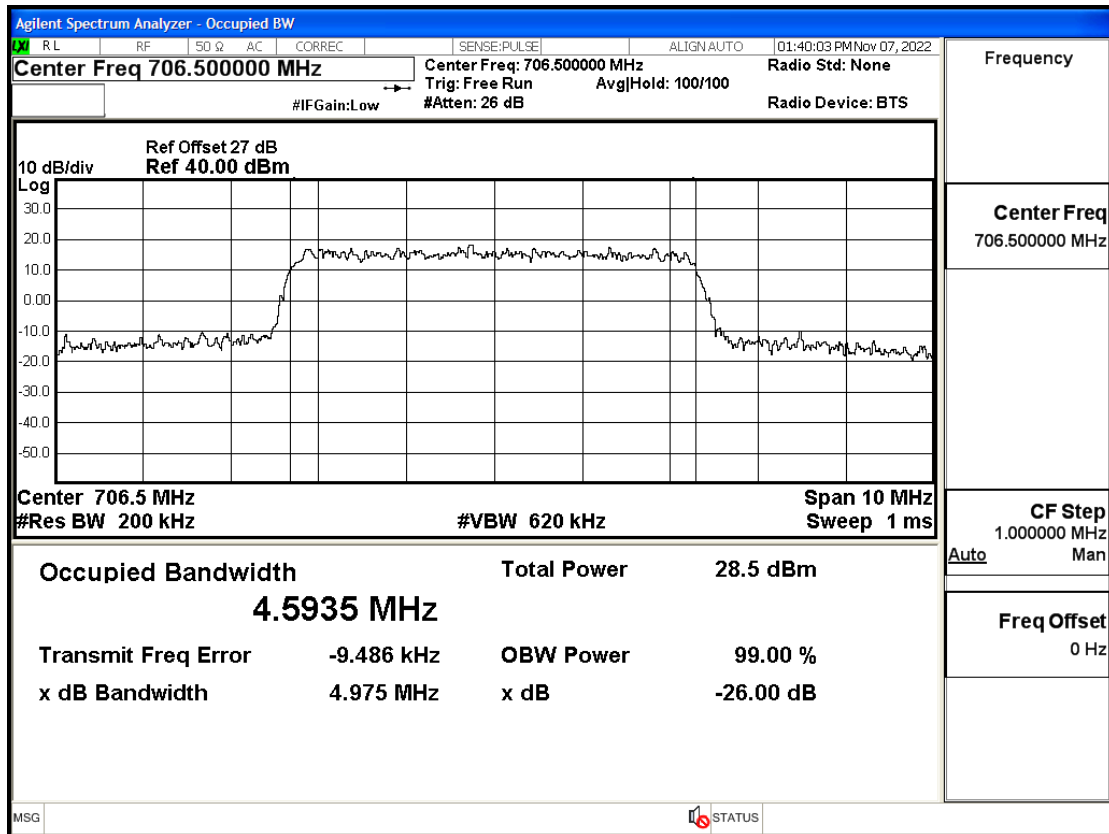
OB17-10-711-Q16-50#LOW@1GHz-9GHz@Pass



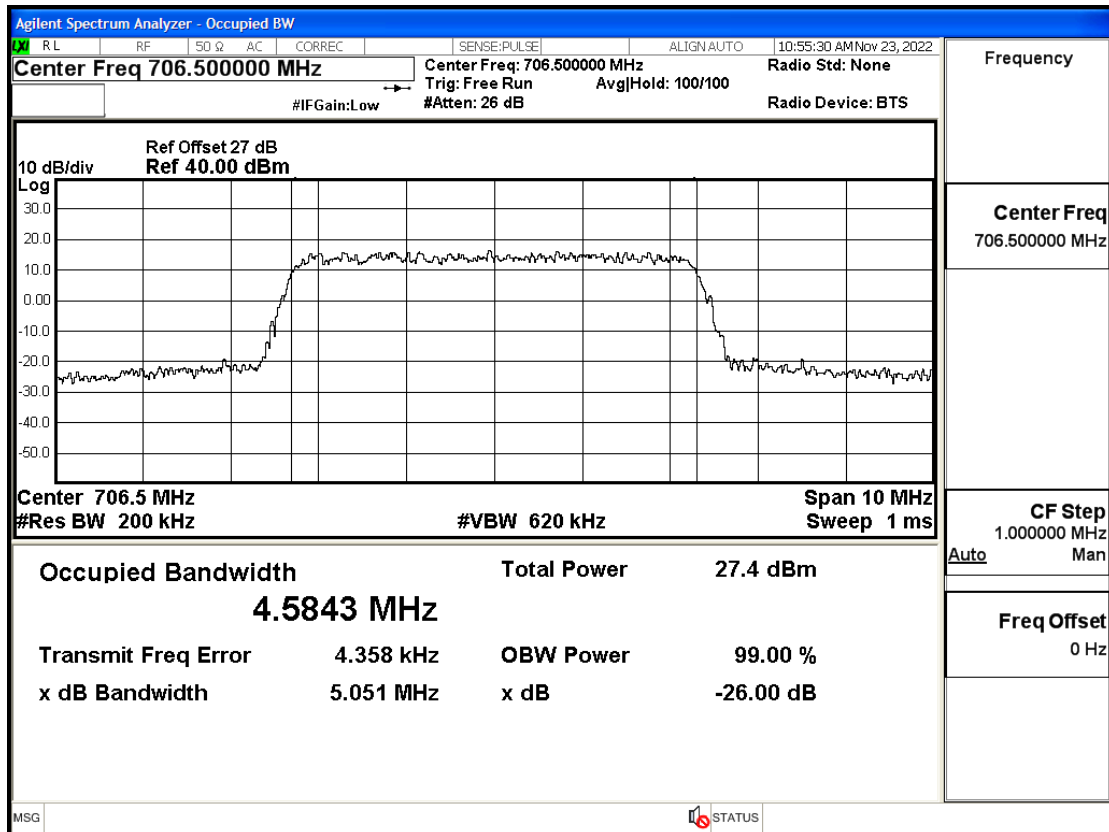
Emission bandwidth and OBW

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	4593.5	4975	No limit
Band17	5	706.5	16QAM	25	LOW	4584.3	5051	No limit
Band17	5	710	QPSK	25	LOW	4587.1	5087	No limit
Band17	5	710	16QAM	25	LOW	4577.4	5108	No limit
Band17	5	713.5	QPSK	25	LOW	4556.5	5049	No limit
Band17	5	713.5	16QAM	25	LOW	4588.7	5083	No limit
Band17	10	709	QPSK	50	LOW	9111.5	10010	No limit
Band17	10	709	16QAM	50	LOW	9105.4	10090	No limit
Band17	10	710	QPSK	50	LOW	9070.6	10030	No limit
Band17	10	710	16QAM	50	LOW	9098.2	9940	No limit
Band17	10	711	QPSK	50	LOW	9062.7	10110	No limit
Band17	10	711	16QAM	50	LOW	9037.9	10040	No limit

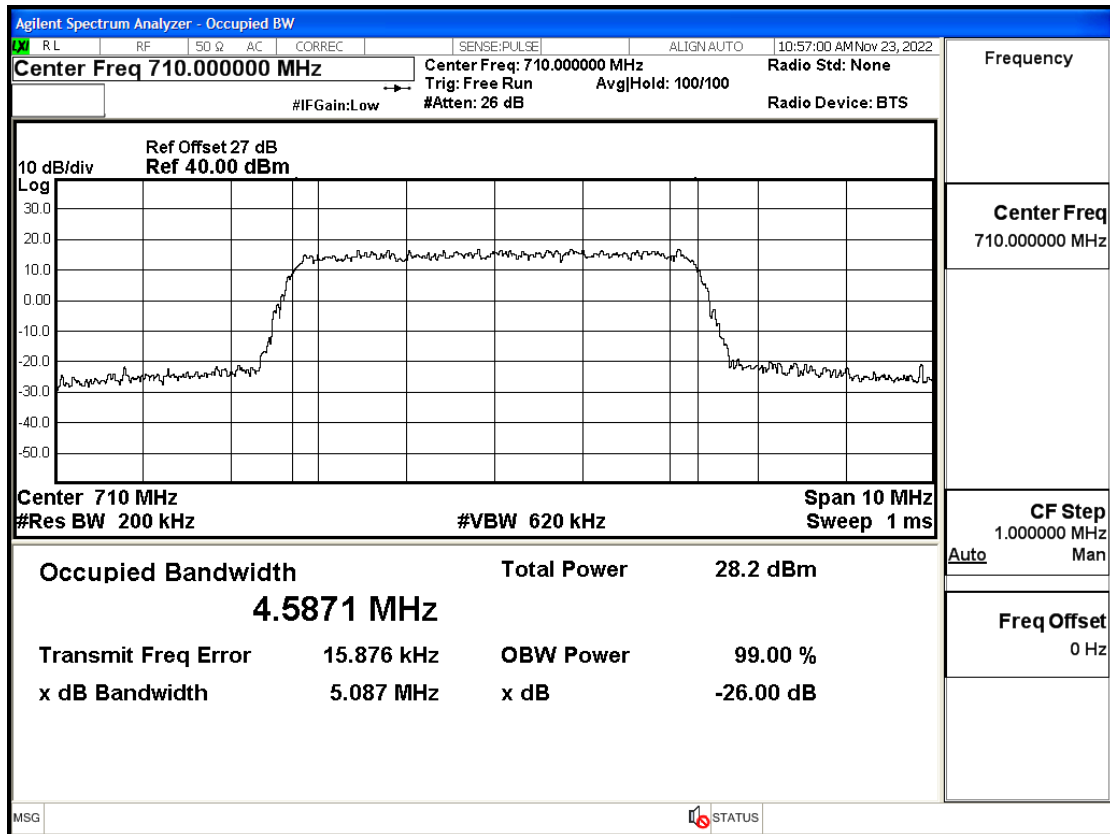
Band17-5-706.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



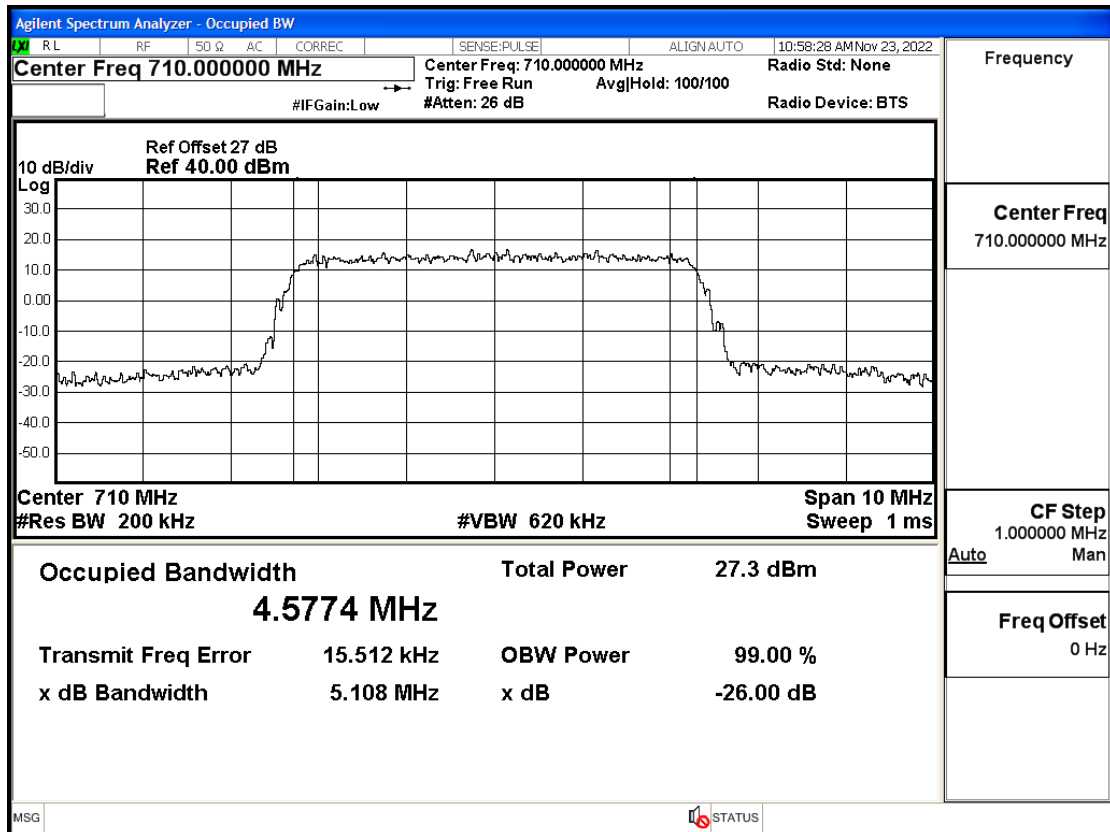
Band17-5-706.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



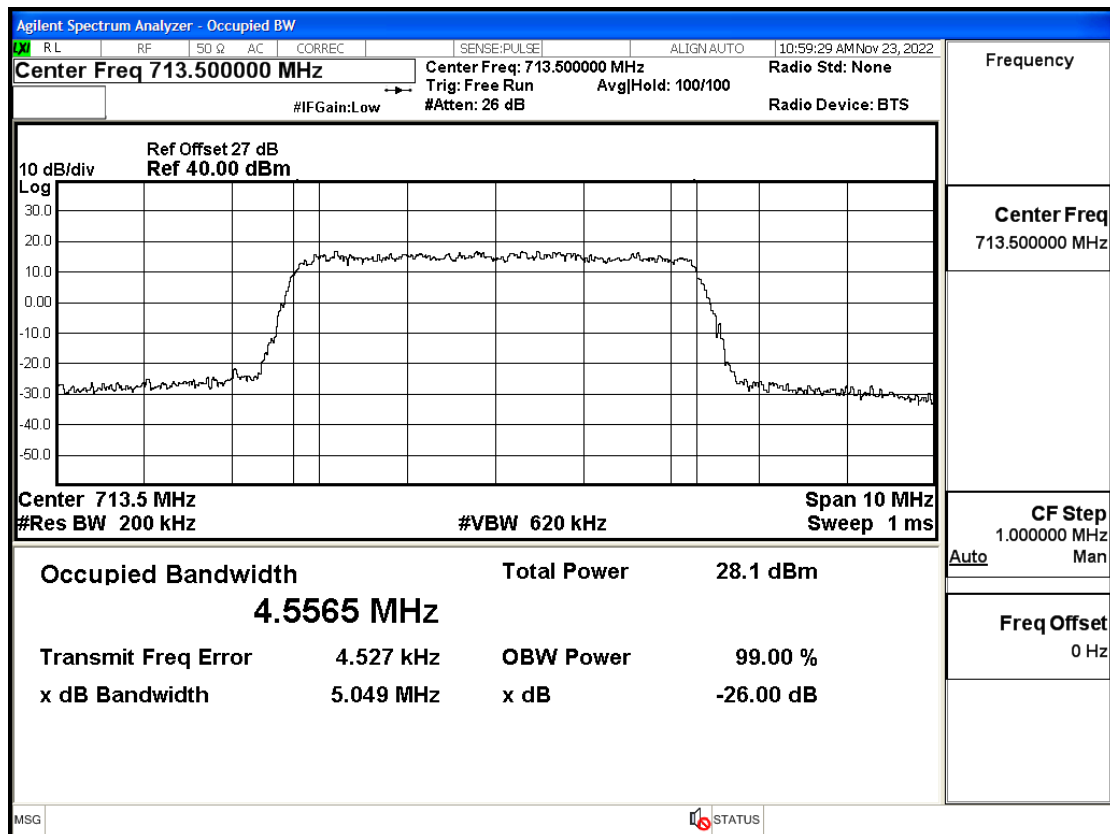
Band17-5-710-QPSK-25#LOW@26dB and 99PCT Bandwidth



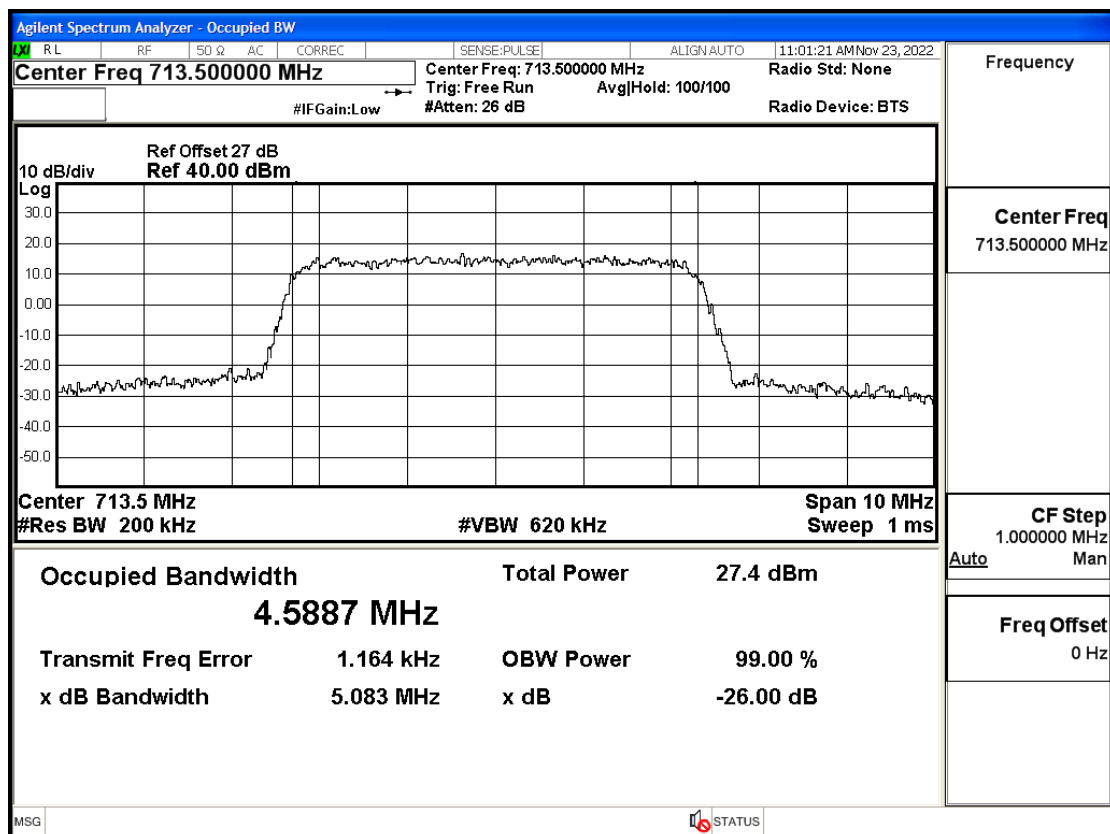
Band17-5-710-16QAM-25#LOW@26dB and 99PCT Bandwidth



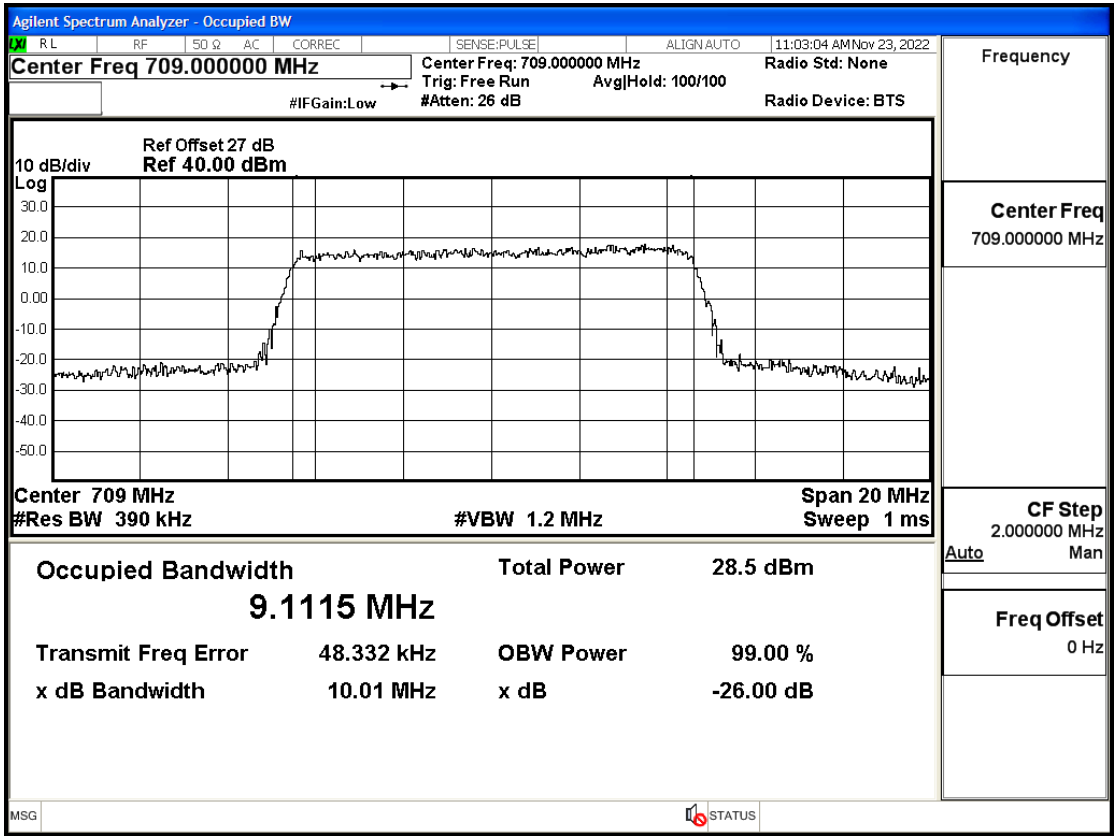
Band17-5-713.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



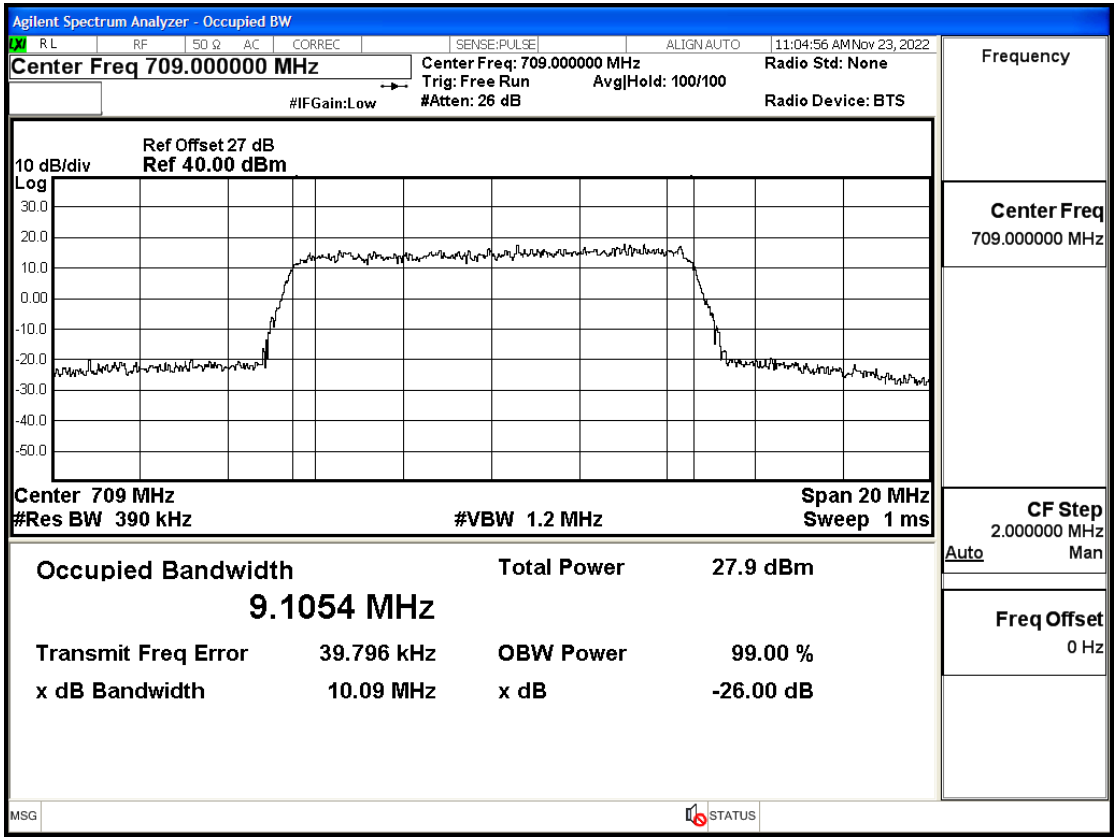
Band17-5-713.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



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



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



Agilent Spectrum Analyzer - Occupied BW

Center Freq 710.000000 MHz
 Trig: Free Run
 #Gain: Low
 #Atten: 26 dB

Radio Std: None
 Radio Device: BTS

Frequency

Center Freq
 710.000000 MHz

Ref Offset 27 dB
 Ref 40.00 dBm

10 dB/div
 Log

Center 710 MHz
 #Res BW 390 kHz
 #VBW 1.2 MHz
 Span 20 MHz
 Sweep 1 ms

Occupied Bandwidth
 9.0706 MHz

Total Power
 28.5 dBm

Transmit Freq Error
 70.245 kHz

OBW Power
 99.00 %

x dB Bandwidth
 10.03 MHz

x dB
 -26.00 dB

CF Step
 2.000000 MHz

Auto

Freq Offset
 0 Hz

MSG STATUS

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC CORREC SENSE:PULSE ALIGN AUTO 11:07:50 AM Nov 23, 2022

Center Freq 710.000000 MHz Center Freq: 710.000000 MHz Radio Std: None
 Trig: Free Run Avg/Hold: 100/100
 #IFGain: Low #Atten: 26 dB Radio Device: BTS

Ref Offset 27 dB
 Ref 40.00 dBm

10 dB/div
 Log

Center 710 MHz Span 20 MHz
 #Res BW 390 kHz #VBW 1.2 MHz Sweep 1 ms

Occupied Bandwidth	Total Power
9.0982 MHz	27.4 dBm

Transmit Freq Error	OBW Power
52.191 kHz	99.00 %

x dB Bandwidth	x dB
9.940 MHz	-26.00 dB

Frequency

Center Freq
 710.000000 MHz

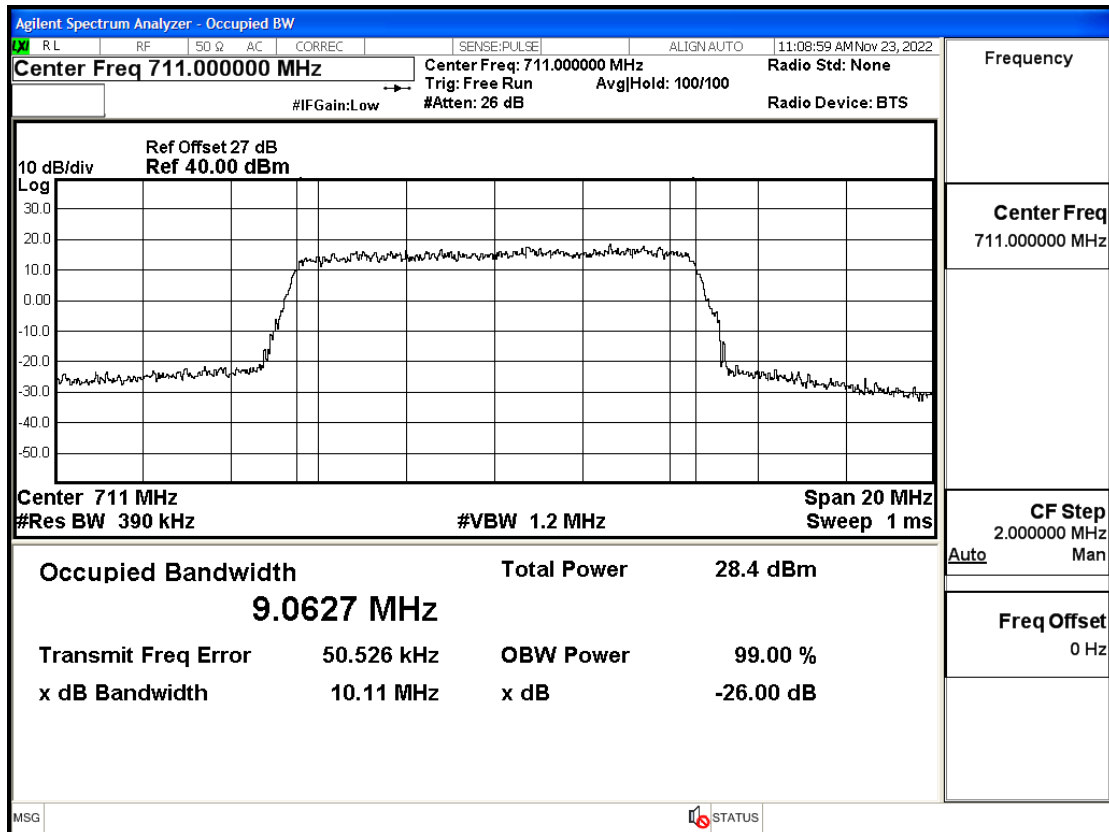
CF Step
 2.000000 MHz
 Man

Auto

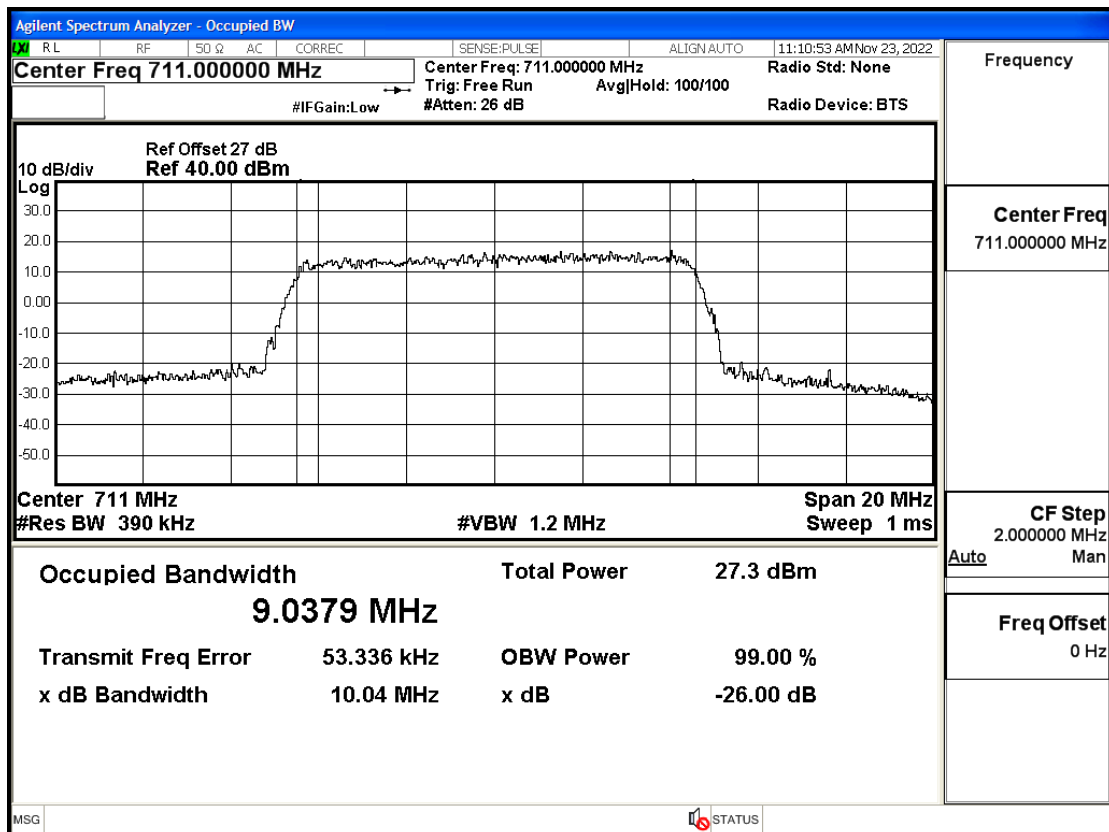
Freq Offset
 0 Hz

MSG STATUS

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	0.0568	PASS
40	Normal Voltage	0.0395	
30	Normal Voltage	0.0182	
20(Ref.)	Normal Voltage	0.0287	
10	Normal Voltage	0.0578	
0	Normal Voltage	0.0191	
-10	Normal Voltage	0.0463	
-20	Normal Voltage	0.0331	
-30	Normal Voltage	0.0167	
20	Maximum Voltage	0.0195	
20	Normal Voltage	0.0271	
20	Battery End Point	0.0591	

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	21.81	28.48	6.67	13	-0.64	19.02	34.8	Pass
Band17	5	706.5	QPSK	12	LOW	21.36	27.75	6.39	13	-0.64	18.57	34.8	Pass
Band17	5	706.5	QPSK	12	MID	21.35	27.51	6.16	13	-0.64	18.56	34.8	Pass
Band17	5	706.5	QPSK	12	HIGH	21.31	27.57	6.26	13	-0.64	18.52	34.8	Pass
Band17	5	706.5	QPSK	1	LOW	22.26	28.57	6.31	13	-0.64	19.47	34.8	Pass
Band17	5	706.5	QPSK	1	MID	22.63	28.35	5.72	13	-0.64	19.84	34.8	Pass
Band17	5	706.5	QPSK	1	HIGH	22.48	28.12	5.64	13	-0.64	19.69	34.8	Pass
Band17	5	706.5	16QAM	25	LOW	20.6	27.75	7.15	13	-0.64	17.81	34.8	Pass
Band17	5	706.5	16QAM	12	LOW	20.29	28	7.71	13	-0.64	17.5	34.8	Pass
Band17	5	706.5	16QAM	12	MID	20.3	28.05	7.75	13	-0.64	17.51	34.8	Pass
Band17	5	706.5	16QAM	12	HIGH	20.72	28.06	7.34	13	-0.64	17.93	34.8	Pass
Band17	5	706.5	16QAM	1	LOW	21.02	27.03	6.01	13	-0.64	18.23	34.8	Pass
Band17	5	706.5	16QAM	1	MID	20.54	26.57	6.03	13	-0.64	17.75	34.8	Pass
Band17	5	706.5	16QAM	1	HIGH	20.67	26.6	5.93	13	-0.64	17.88	34.8	Pass
Band17	5	710	QPSK	25	LOW	21.19	27.92	6.73	13	-0.64	18.4	34.8	Pass
Band17	5	710	QPSK	12	LOW	21.37	28	6.63	13	-0.64	18.58	34.8	Pass
Band17	5	710	QPSK	12	MID	21.37	27.99	6.62	13	-0.64	18.58	34.8	Pass
Band17	5	710	QPSK	12	HIGH	21.61	28.1	6.49	13	-0.64	18.82	34.8	Pass
Band17	5	710	QPSK	1	LOW	22.37	28.1	5.73	13	-0.64	19.58	34.8	Pass
Band17	5	710	QPSK	1	MID	22.4	27.58	5.18	13	-0.64	19.61	34.8	Pass
Band17	5	710	QPSK	1	HIGH	22.44	27.5	5.06	13	-0.64	19.65	34.8	Pass
Band17	5	710	16QAM	25	LOW	20.3	27.4	7.1	13	-0.64	17.51	34.8	Pass
Band17	5	710	16QAM	12	LOW	20.7	27.42	6.72	13	-0.64	17.91	34.8	Pass
Band17	5	710	16QAM	12	MID	20.69	27.44	6.75	13	-0.64	17.9	34.8	Pass
Band17	5	710	16QAM	12	HIGH	20.48	27.18	6.7	13	-0.64	17.69	34.8	Pass
Band17	5	710	16QAM	1	LOW	21.36	27.32	5.96	13	-0.64	18.57	34.8	Pass
Band17	5	710	16QAM	1	MID	21.41	27.21	5.8	13	-0.64	18.62	34.8	Pass
Band17	5	710	16QAM	1	HIGH	21.47	27.21	5.74	13	-0.64	18.68	34.8	Pass
Band17	5	713.5	QPSK	25	LOW	21.14	27.2	6.06	13	-0.64	18.35	34.8	Pass
Band17	5	713.5	QPSK	12	LOW	21.53	27.37	5.84	13	-0.64	18.74	34.8	Pass
Band17	5	713.5	QPSK	12	MID	21.52	27.23	5.71	13	-0.64	18.73	34.8	Pass
Band17	5	713.5	QPSK	12	HIGH	21.21	27.12	5.91	13	-0.64	18.42	34.8	Pass
Band17	5	713.5	QPSK	1	LOW	22.27	27.63	5.36	13	-0.64	19.48	34.8	Pass
Band17	5	713.5	QPSK	1	MID	22.44	27.66	5.22	13	-0.64	19.65	34.8	Pass
Band17	5	713.5	QPSK	1	HIGH	22.4	27.7	5.3	13	-0.64	19.61	34.8	Pass
Band17	5	713.5	16QAM	25	LOW	20.39	28.11	7.72	13	-0.64	17.6	34.8	Pass
Band17	5	713.5	16QAM	12	LOW	20.37	27.22	6.85	13	-0.64	17.58	34.8	Pass
Band17	5	713.5	16QAM	12	MID	20.42	27.24	6.82	13	-0.64	17.63	34.8	Pass

Band17	5	713.5	16QAM	12	HIGH	20.25	27.29	7.04	13	-0.64	17.46	34.8	Pass
Band17	5	713.5	16QAM	1	LOW	21.03	27.41	6.38	13	-0.64	18.24	34.8	Pass
Band17	5	713.5	16QAM	1	MID	20.87	27.27	6.4	13	-0.64	18.08	34.8	Pass
Band17	5	713.5	16QAM	1	HIGH	20.96	27.42	6.46	13	-0.64	18.17	34.8	Pass
Band17	10	709	QPSK	50	LOW	21.15	27.75	6.6	13	-0.64	18.36	34.8	Pass
Band17	10	709	QPSK	25	LOW	21.38	28.05	6.67	13	-0.64	18.59	34.8	Pass
Band17	10	709	QPSK	25	MID	21.37	27.96	6.59	13	-0.64	18.58	34.8	Pass
Band17	10	709	QPSK	25	HIGH	21.6	27.95	6.35	13	-0.64	18.81	34.8	Pass
Band17	10	709	QPSK	1	LOW	22.23	27.59	5.36	13	-0.64	19.44	34.8	Pass
Band17	10	709	QPSK	1	MID	22.23	27.51	5.28	13	-0.64	19.44	34.8	Pass
Band17	10	709	QPSK	1	HIGH	22.52	27.53	5.01	13	-0.64	19.73	34.8	Pass
Band17	10	709	16QAM	50	LOW	20.7	28.6	7.9	13	-0.64	17.91	34.8	Pass
Band17	10	709	16QAM	25	LOW	20.4	27.99	7.59	13	-0.64	17.61	34.8	Pass
Band17	10	709	16QAM	25	MID	20.4	27.98	7.58	13	-0.64	17.61	34.8	Pass
Band17	10	709	16QAM	25	HIGH	20.51	27.66	7.15	13	-0.64	17.72	34.8	Pass
Band17	10	709	16QAM	1	LOW	21.75	28.34	6.59	13	-0.64	18.96	34.8	Pass
Band17	10	709	16QAM	1	MID	21.46	27.77	6.31	13	-0.64	18.67	34.8	Pass
Band17	10	709	16QAM	1	HIGH	21.5	27.6	6.1	13	-0.64	18.71	34.8	Pass
Band17	10	710	QPSK	50	LOW	21.29	27.69	6.4	13	-0.64	18.5	34.8	Pass
Band17	10	710	QPSK	25	LOW	21.46	27.99	6.53	13	-0.64	18.67	34.8	Pass
Band17	10	710	QPSK	25	MID	21.32	27.64	6.32	13	-0.64	18.53	34.8	Pass
Band17	10	710	QPSK	25	HIGH	21.6	27.69	6.09	13	-0.64	18.81	34.8	Pass
Band17	10	710	QPSK	1	LOW	22.66	28.1	5.44	13	-0.64	19.87	34.8	Pass
Band17	10	710	QPSK	1	MID	22.47	27.6	5.13	13	-0.64	19.68	34.8	Pass
Band17	10	710	QPSK	1	HIGH	22.54	27.63	5.09	13	-0.64	19.75	34.8	Pass
Band17	10	710	16QAM	50	LOW	20.45	27.8	7.35	13	-0.64	17.66	34.8	Pass
Band17	10	710	16QAM	25	LOW	20.76	28.29	7.53	13	-0.64	17.97	34.8	Pass
Band17	10	710	16QAM	25	MID	20.73	28.25	7.52	13	-0.64	17.94	34.8	Pass
Band17	10	710	16QAM	25	HIGH	20.62	27.87	7.25	13	-0.64	17.83	34.8	Pass
Band17	10	710	16QAM	1	LOW	21.41	27.56	6.15	13	-0.64	18.62	34.8	Pass
Band17	10	710	16QAM	1	MID	21.5	26.44	4.94	13	-0.64	18.71	34.8	Pass
Band17	10	710	16QAM	1	HIGH	21.34	26.92	5.58	13	-0.64	18.55	34.8	Pass
Band17	10	711	QPSK	50	LOW	21.16	27.41	6.25	13	-0.64	18.37	34.8	Pass
Band17	10	711	QPSK	25	LOW	21.28	28.16	6.88	13	-0.64	18.49	34.8	Pass
Band17	10	711	QPSK	25	MID	21.27	28.23	6.96	13	-0.64	18.48	34.8	Pass
Band17	10	711	QPSK	25	HIGH	21.26	27.87	6.61	13	-0.64	18.47	34.8	Pass
Band17	10	711	QPSK	1	LOW	22.6	27.96	5.36	13	-0.64	19.81	34.8	Pass
Band17	10	711	QPSK	1	MID	22.51	27.54	5.03	13	-0.64	19.72	34.8	Pass
Band17	10	711	QPSK	1	HIGH	22.77	27.67	4.9	13	-0.64	19.98	34.8	Pass
Band17	10	711	16QAM	50	LOW	20.57	28.36	7.79	13	-0.64	17.78	34.8	Pass
Band17	10	711	16QAM	25	LOW	20.74	28.09	7.35	13	-0.64	17.95	34.8	Pass
Band17	10	711	16QAM	25	MID	20.73	27.99	7.26	13	-0.64	17.94	34.8	Pass
Band17	10	711	16QAM	25	HIGH	20.6	27.67	7.07	13	-0.64	17.81	34.8	Pass
Band17	10	711	16QAM	1	LOW	21.13	26.6	5.47	13	-0.64	18.34	34.8	Pass
Band17	10	711	16QAM	1	MID	21.08	26.42	5.34	13	-0.64	18.29	34.8	Pass

Band17	10	711	16QAM	1	HIGH	20.99	26.38	5.39	13	-0.64	18.2	34.8	Pass
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