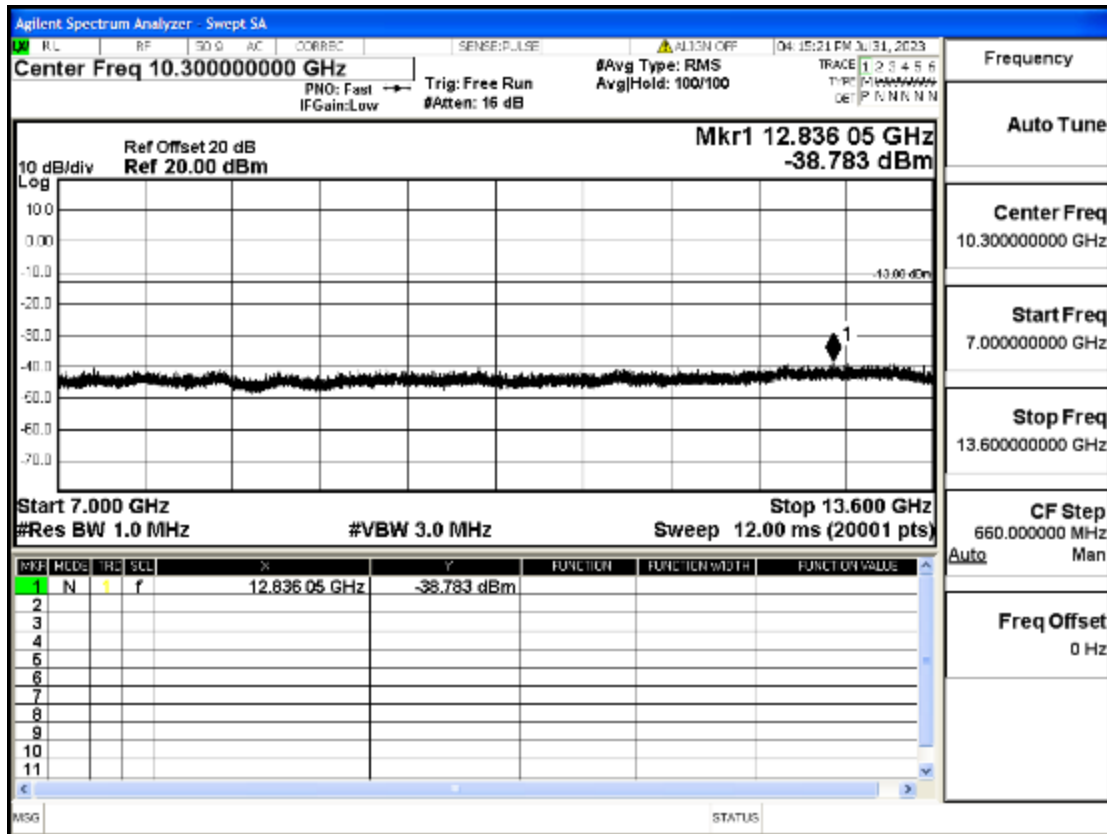
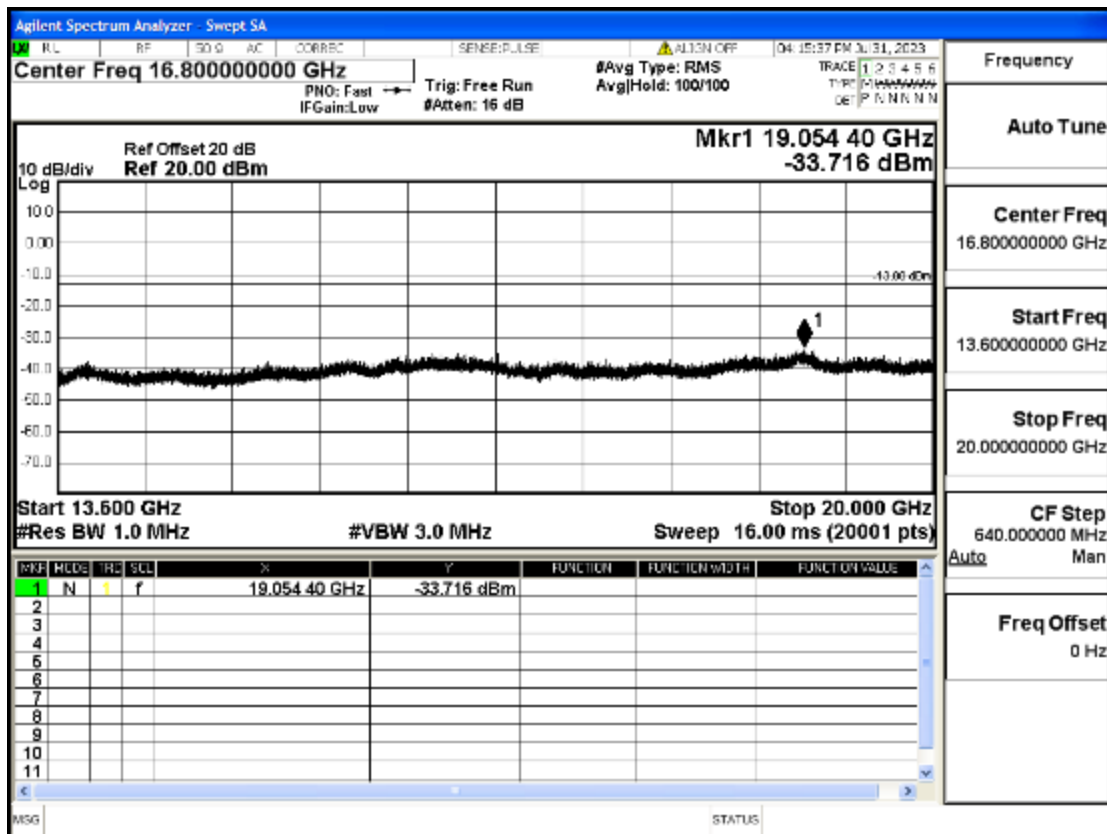


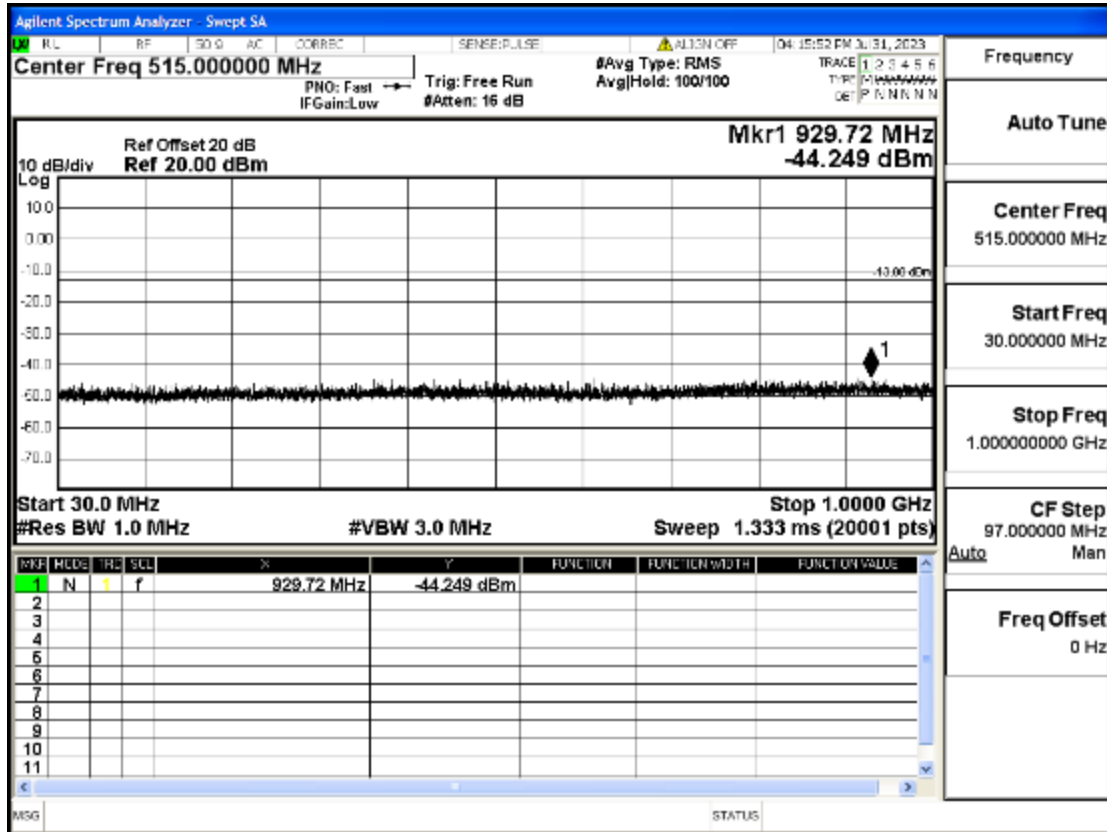
OB4-3-1732.5-Q16-15#LOW@7GHz-13.6GHz@Pass



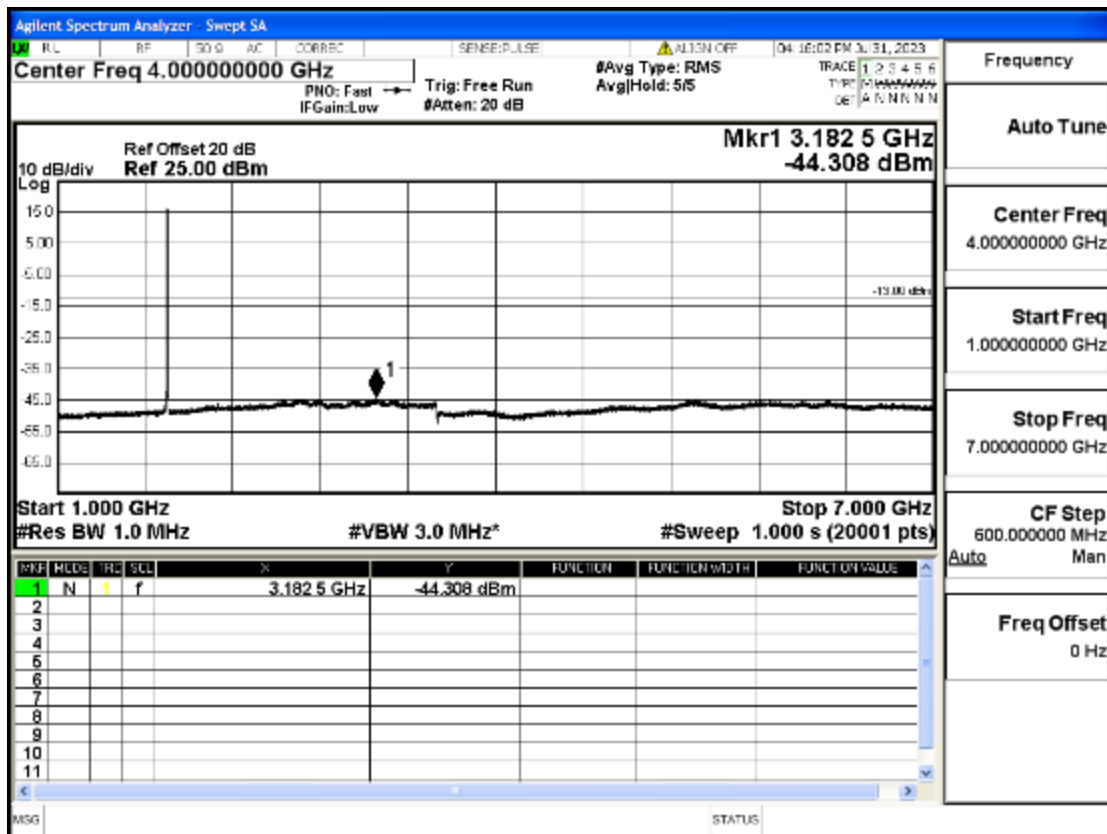
OB4-3-1732.5-Q16-15#LOW@13.6GHz-20GHz@Pass



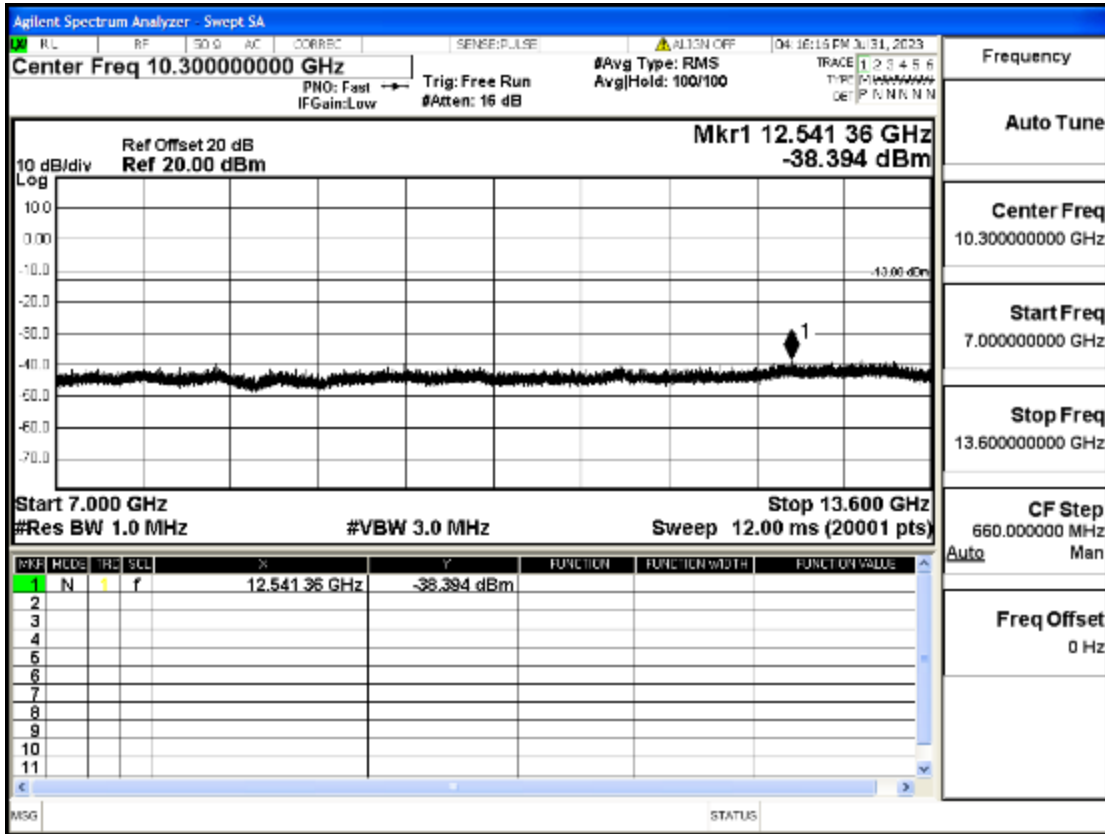
OB4-3-1753.5-Q16-15#LOW@30mHz-1GHz@Pass



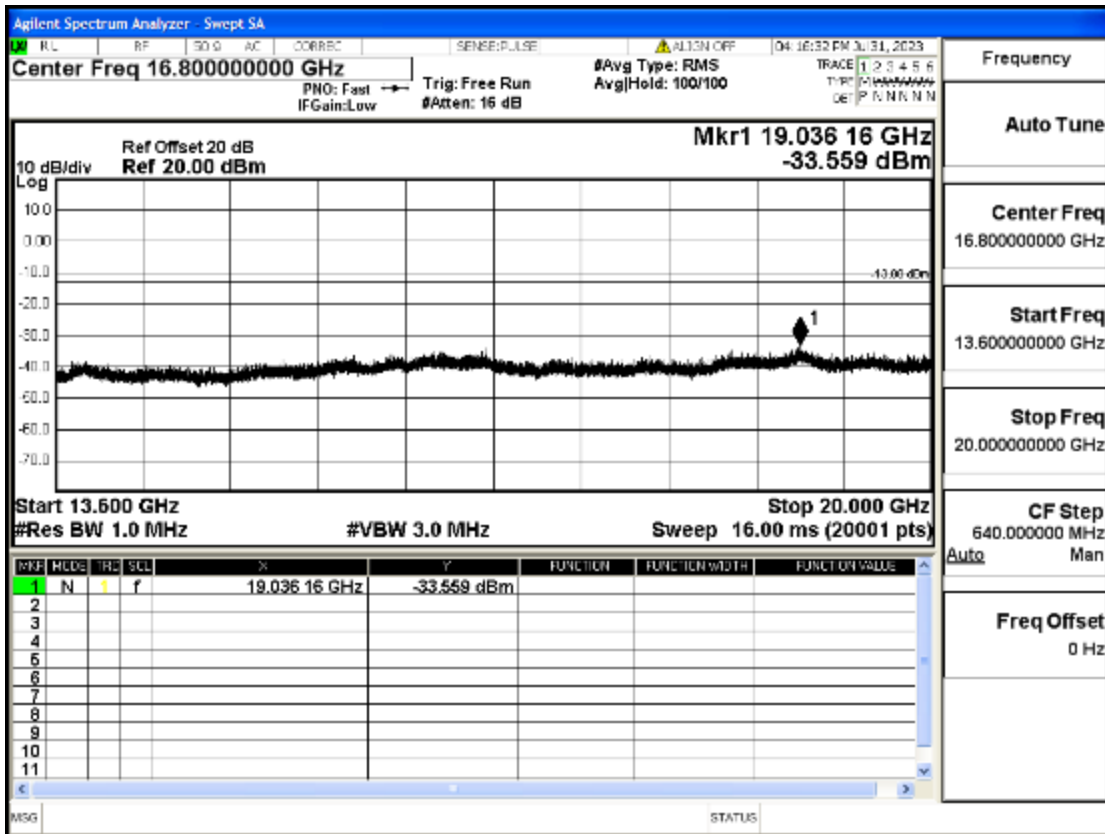
OB4-3-1753.5-Q16-15#LOW@1GHz-7GHz@Pass



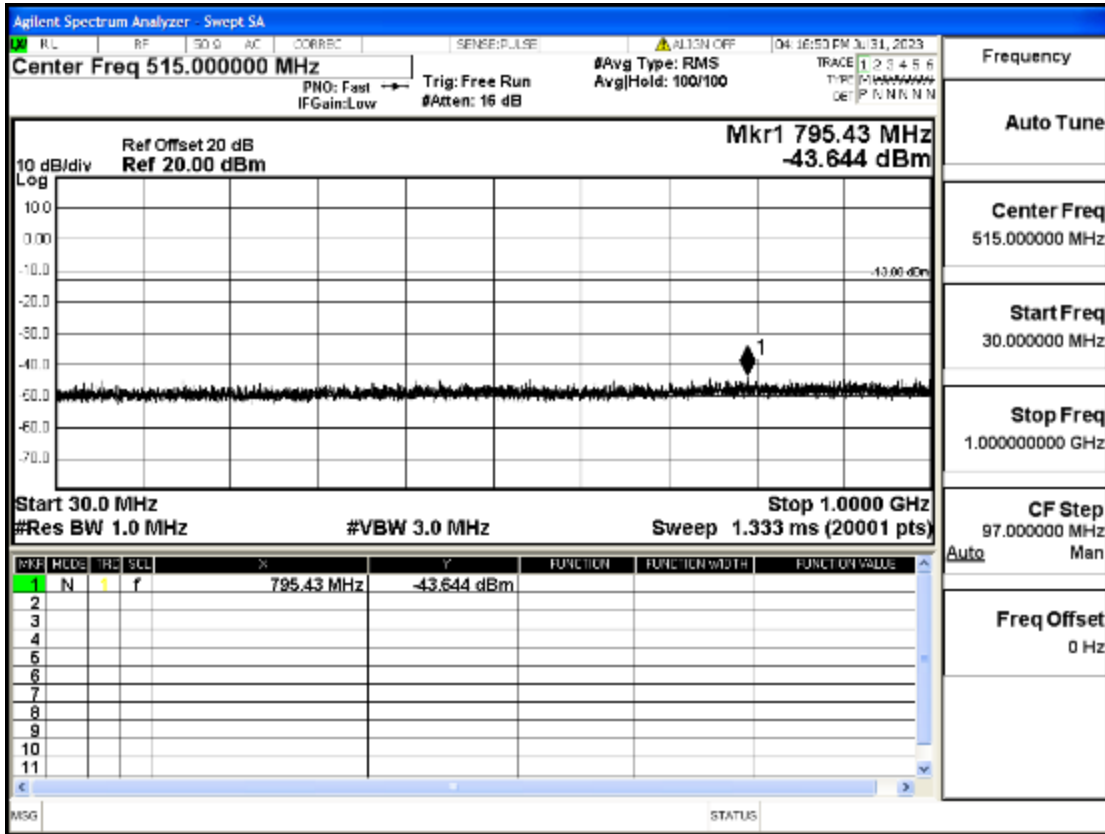
OB4-3-1753.5-Q16-15#LOW@7GHz-13.6GHz@Pass



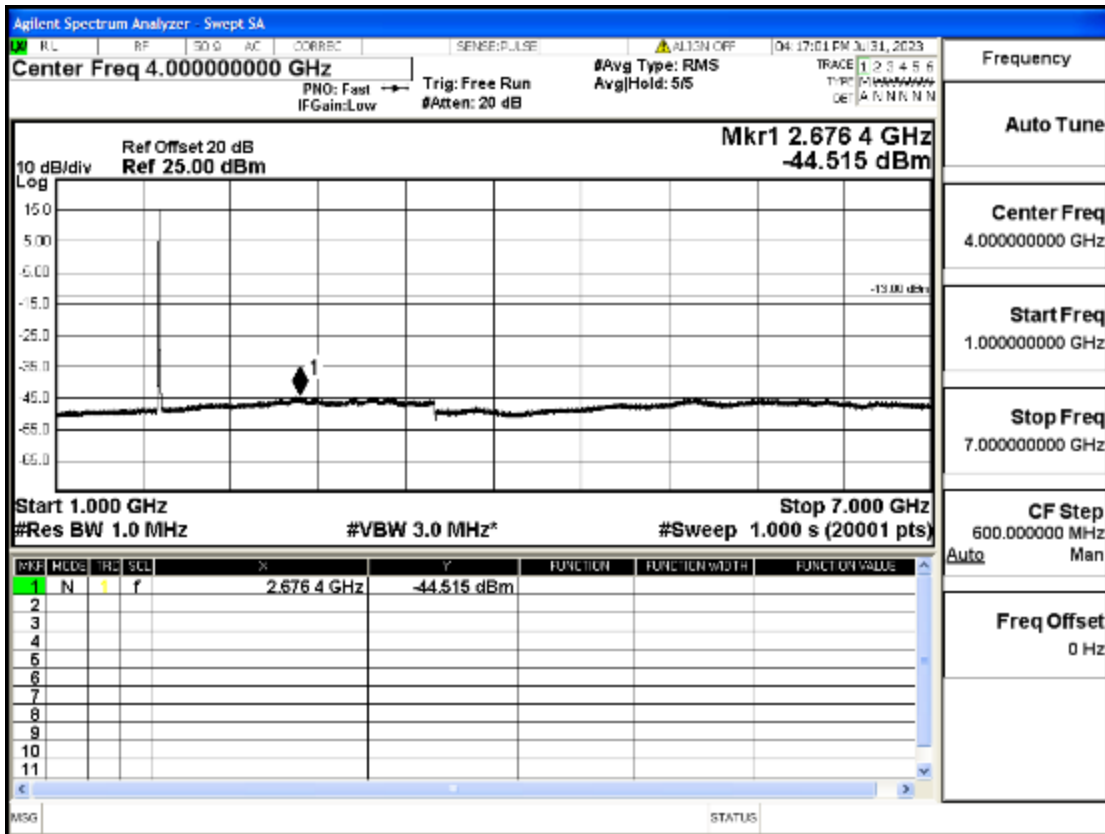
OB4-3-1753.5-Q16-15#LOW@13.6GHz-20GHz@Pass



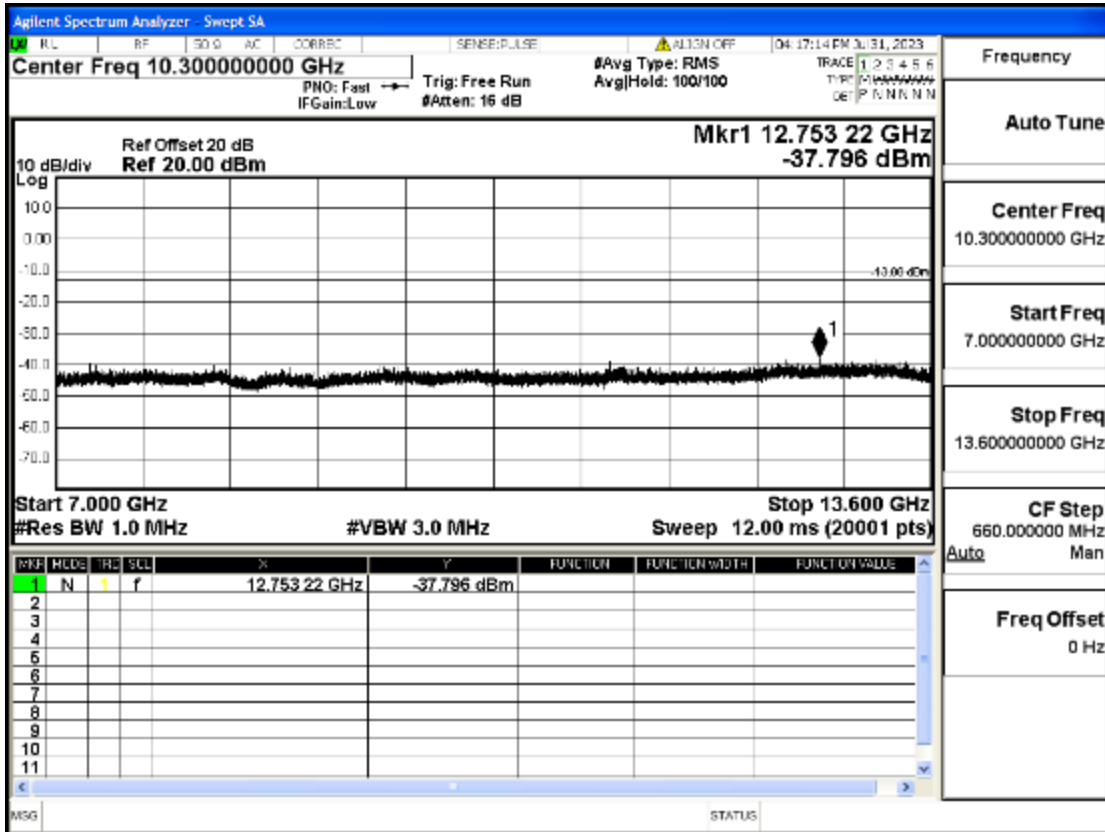
OB4-5-1712.5-Q16-25#LOW@30mHz-1GHz@Pass



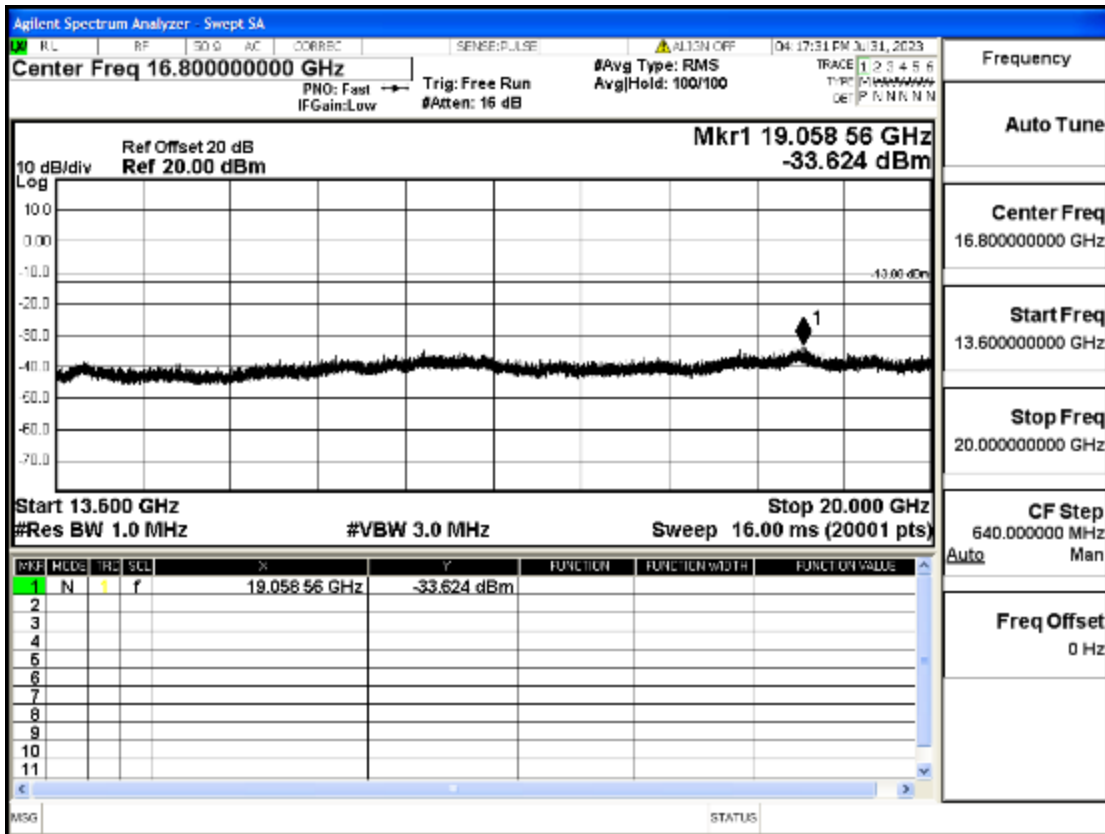
OB4-5-1712.5-Q16-25#LOW@1GHz-7GHz@Pass



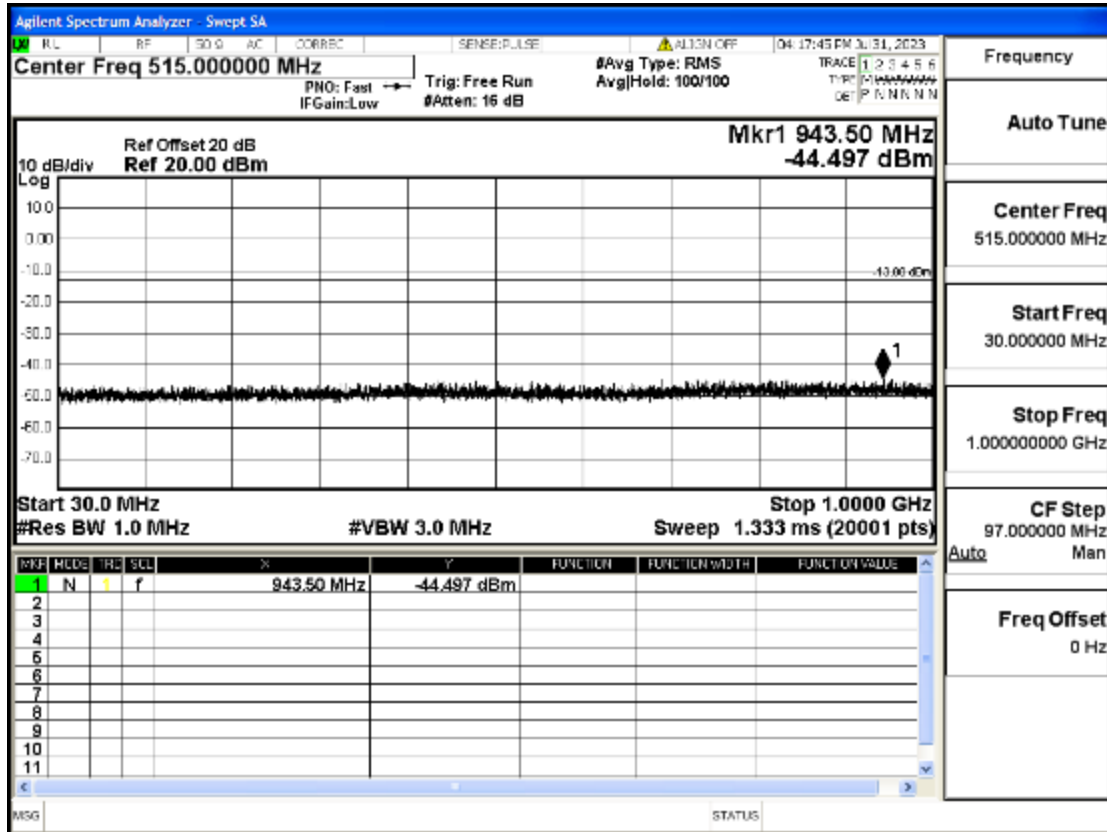
OB4-5-1712.5-Q16-25#LOW@7GHz-13.6GHz@Pass



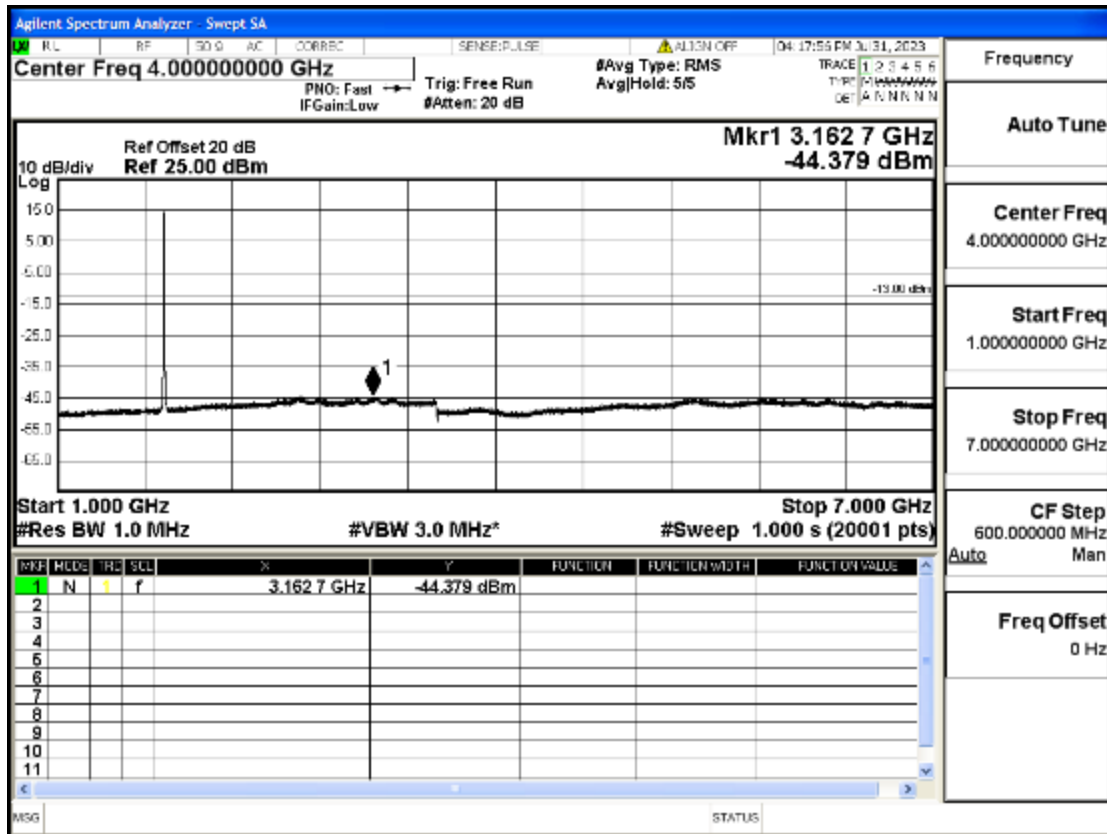
OB4-5-1712.5-Q16-25#LOW@13.6GHz-20GHz@Pass



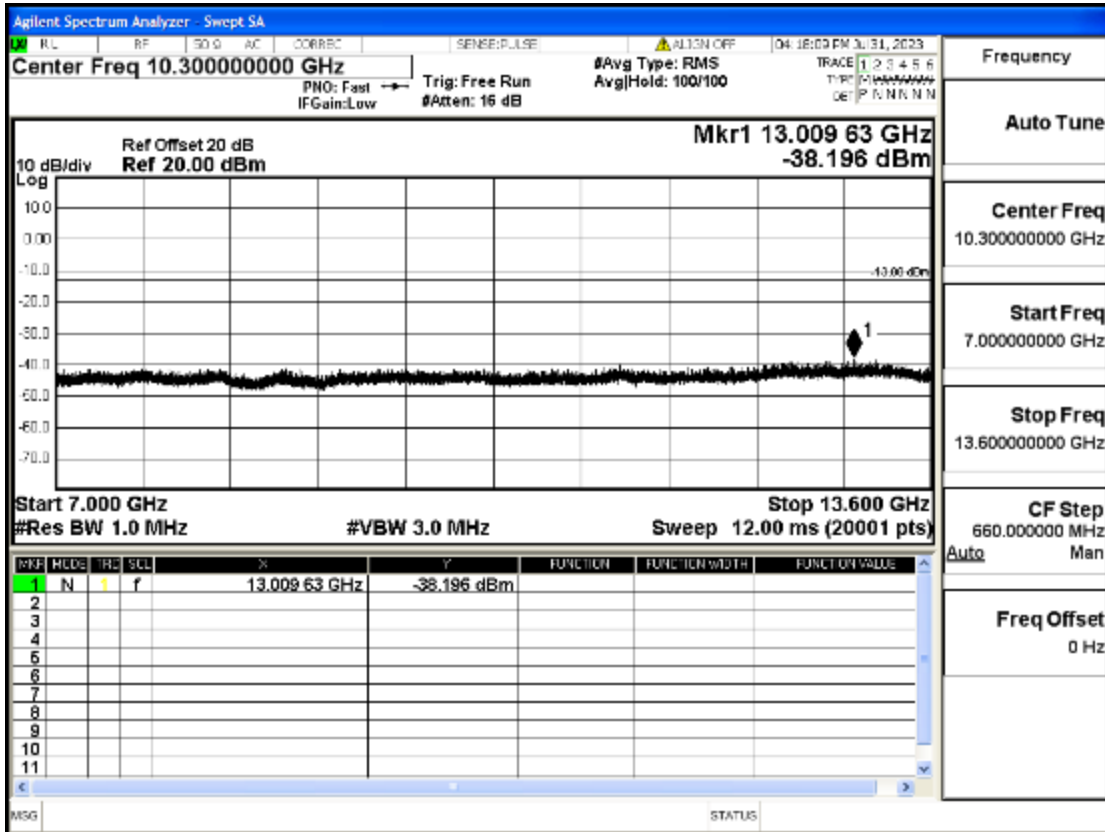
OB4-5-1732.5-Q16-25#LOW@30mHz-1GHz@Pass



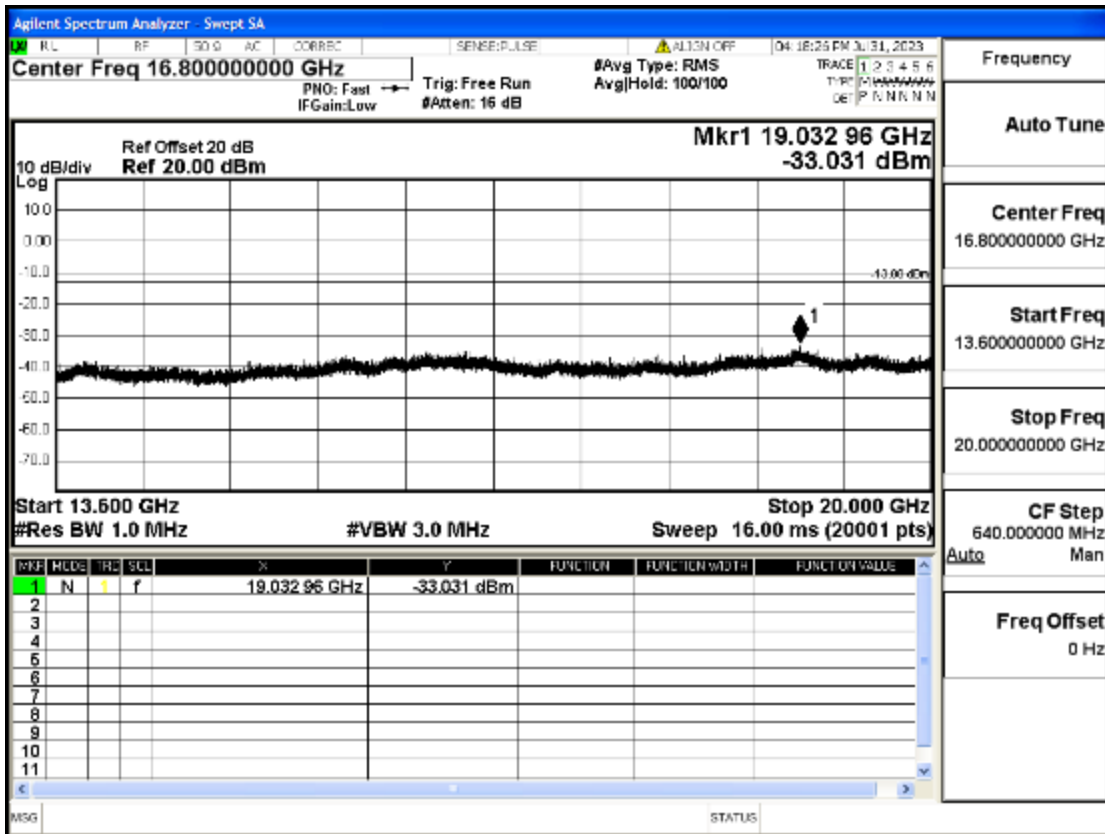
OB4-5-1732.5-Q16-25#LOW@1GHz-7GHz@Pass



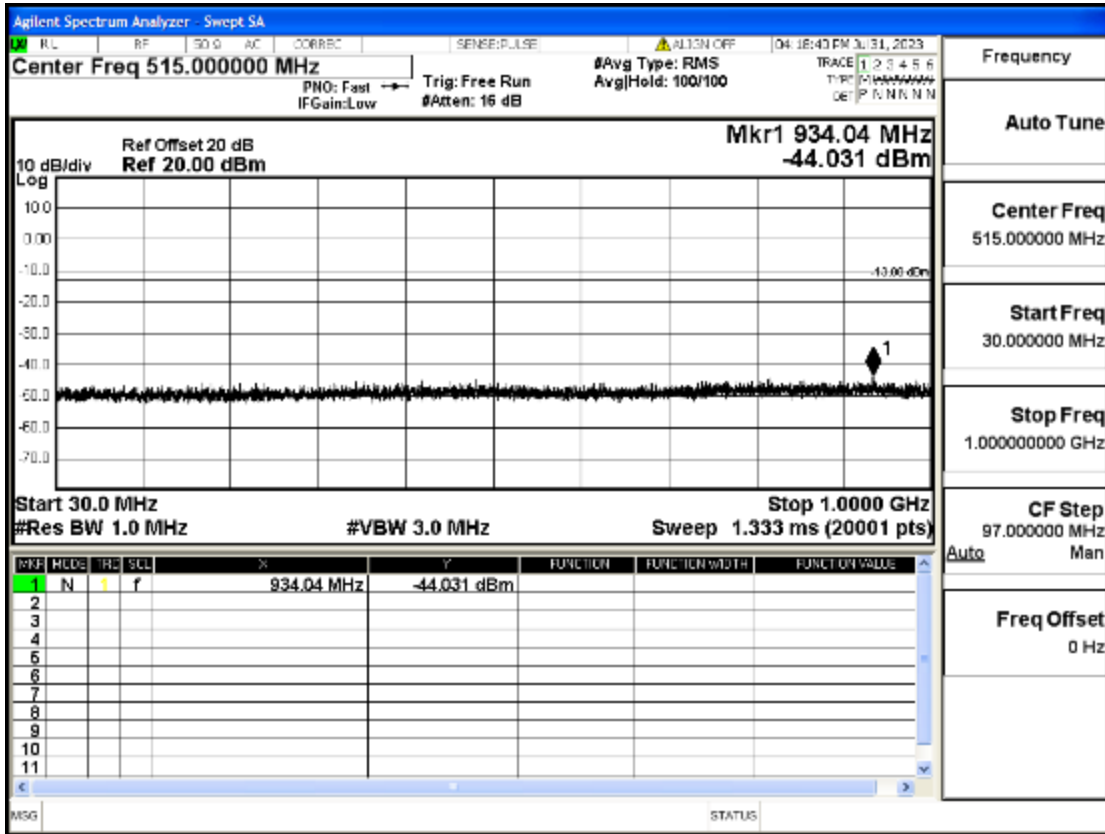
OB4-5-1732.5-Q16-25#LOW@7GHz-13.6GHz@Pass



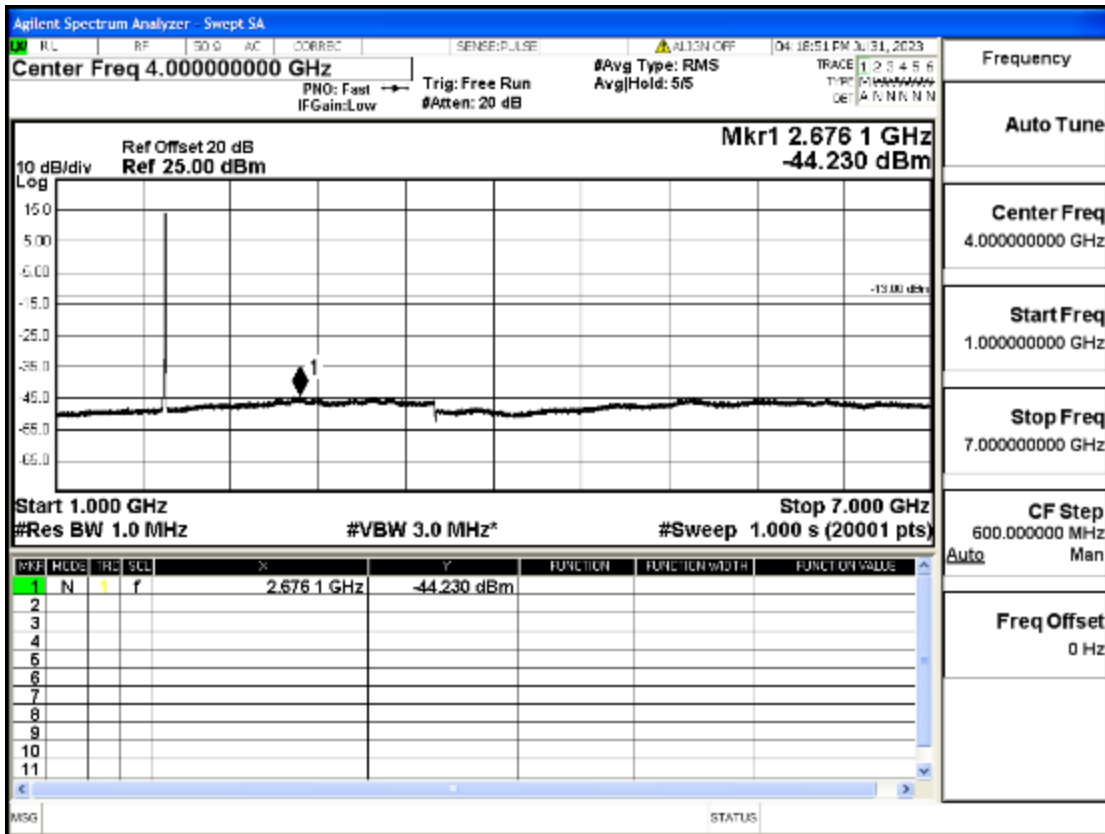
OB4-5-1732.5-Q16-25#LOW@13.6GHz-20GHz@Pass



OB4-5-1752.5-Q16-25#LOW@30mHz-1GHz@Pass

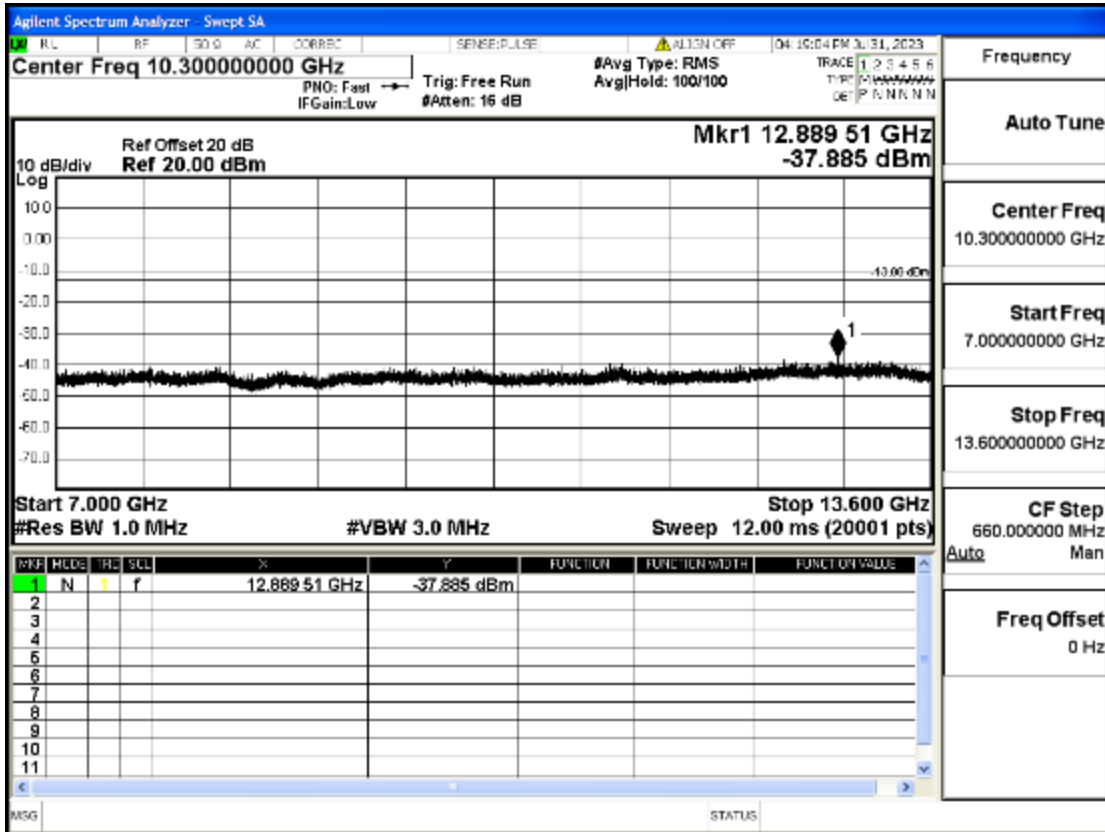


OB4-5-1752.5-Q16-25#LOW@1GHz-7GHz@Pass

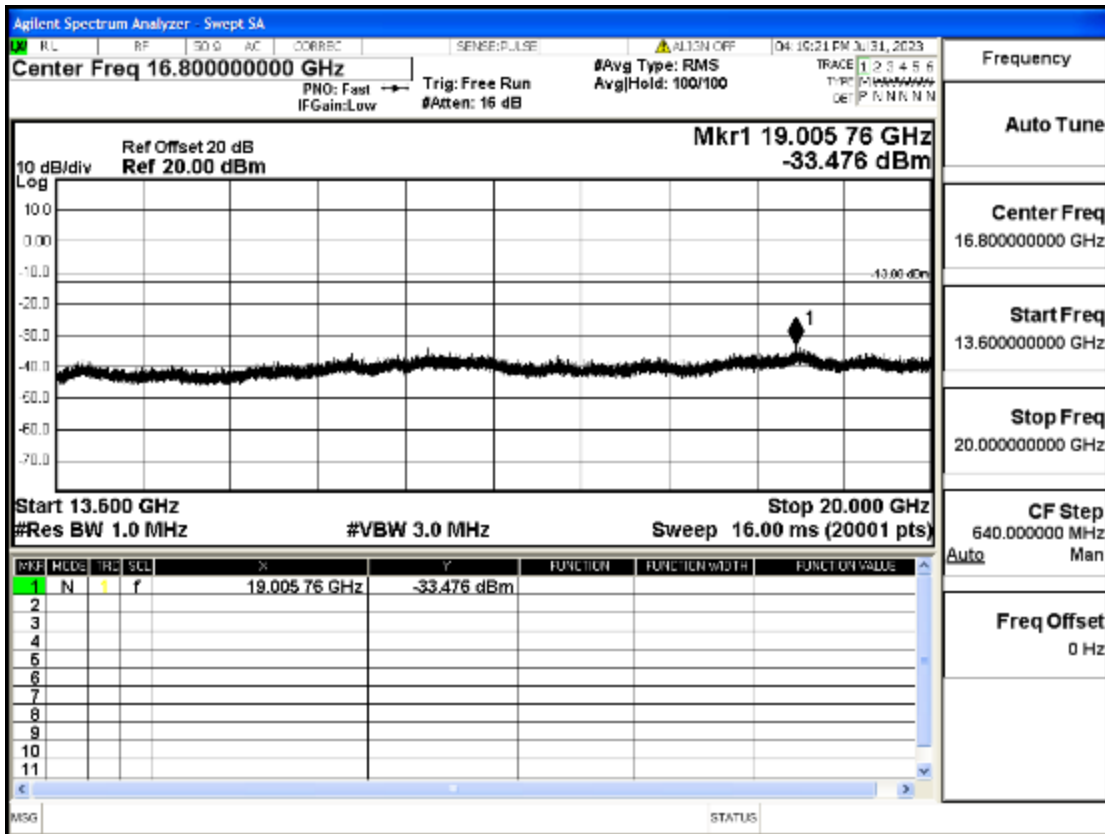




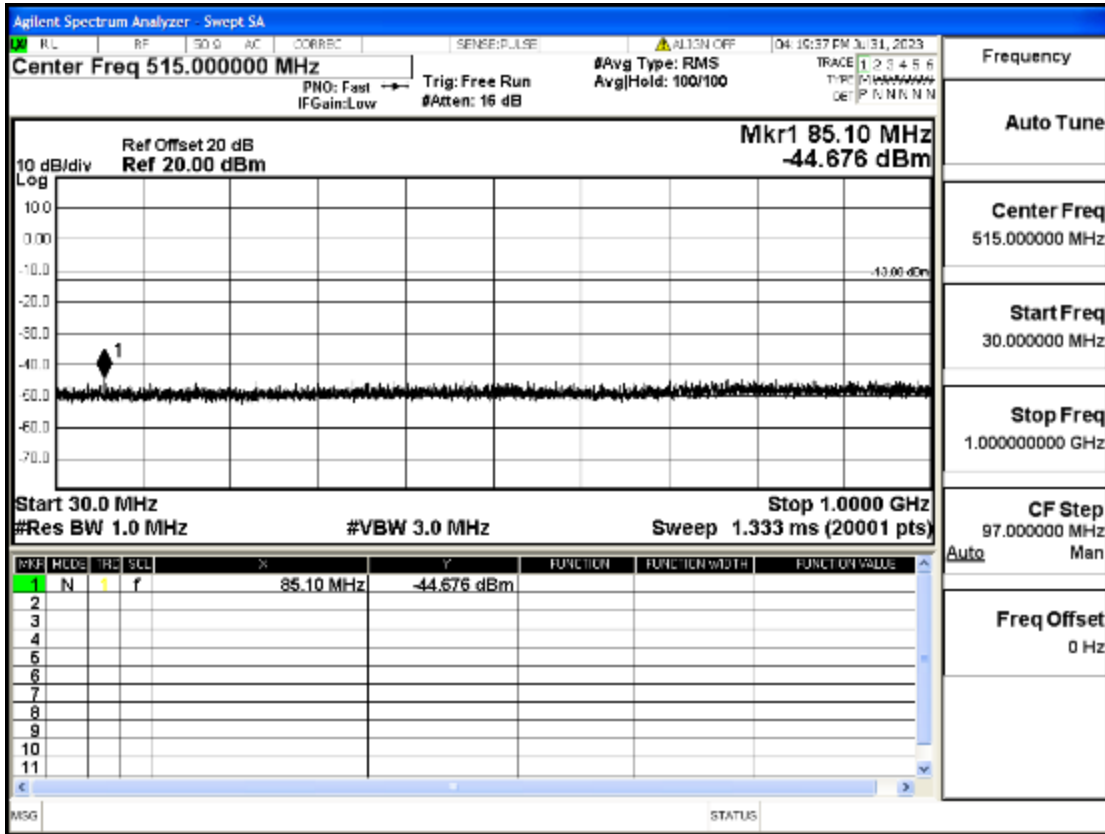
OB4-5-1752.5-Q16-25#LOW@7GHz-13.6GHz@Pass



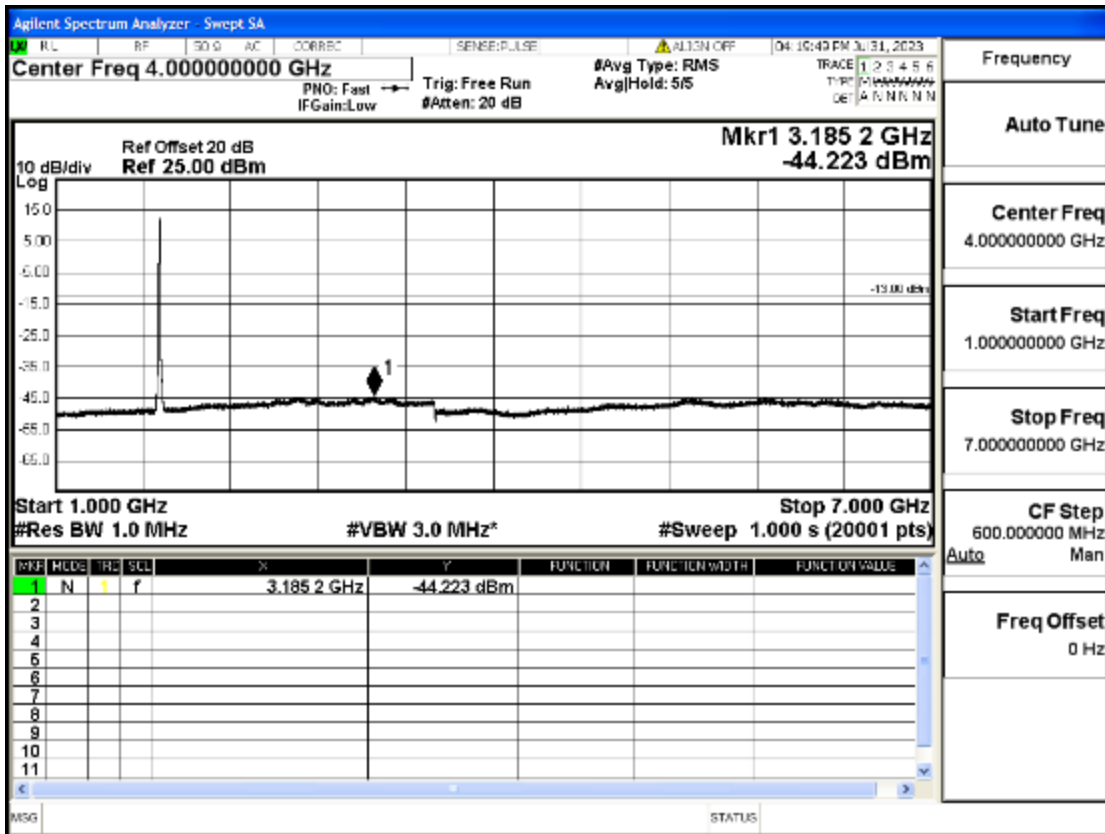
OB4-5-1752.5-Q16-25#LOW@13.6GHz-20GHz@Pass



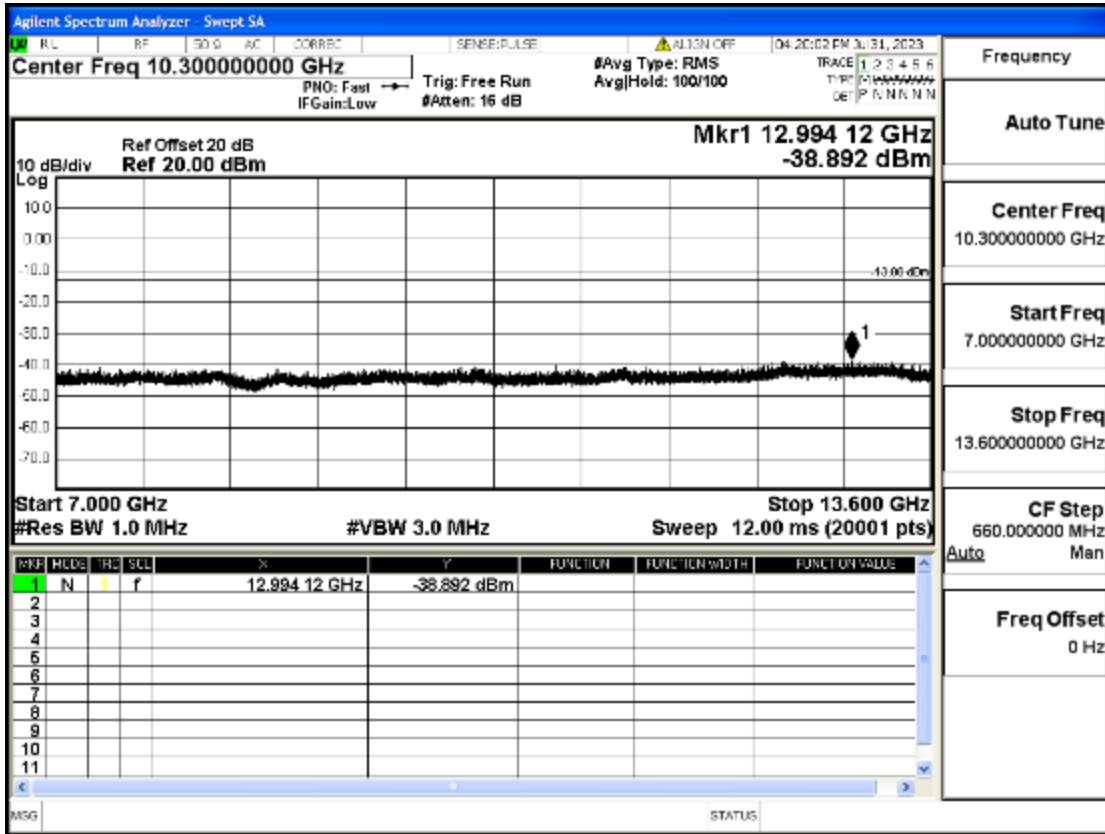
OB4-10-1715-Q16-50#LOW@30mHz-1GHz@Pass



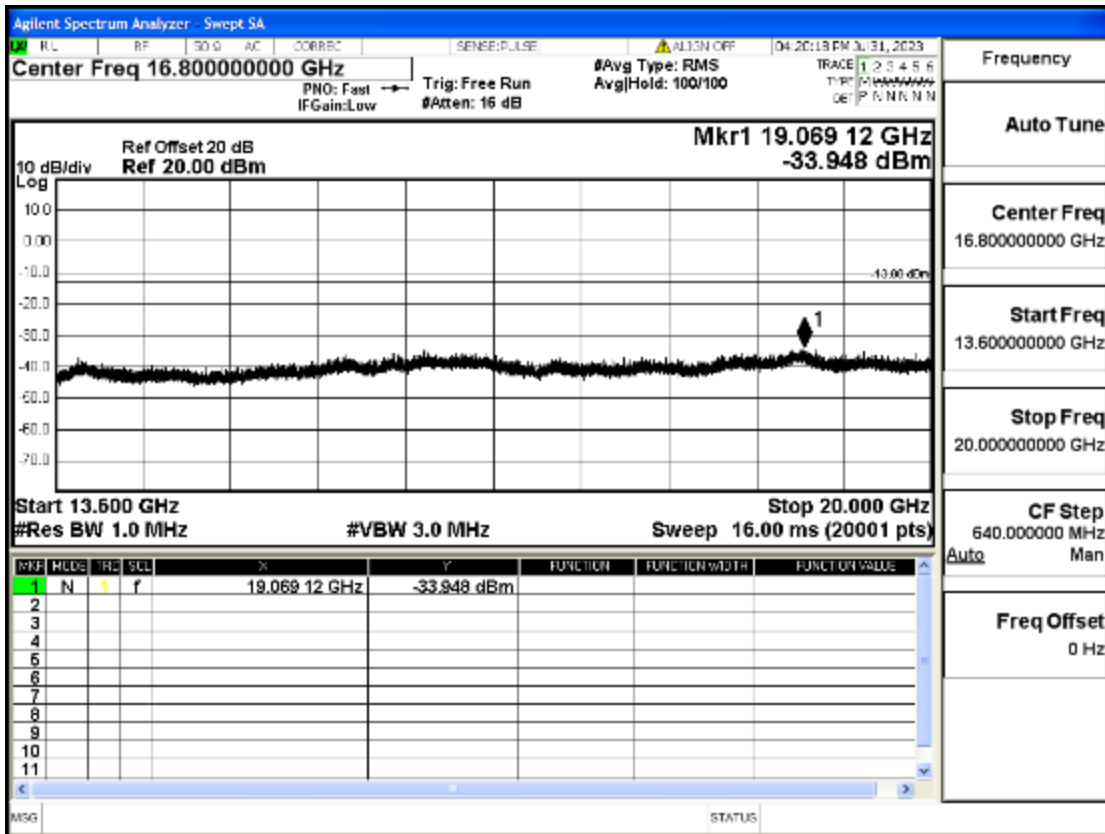
OB4-10-1715-Q16-50#LOW@1GHz-7GHz@Pass



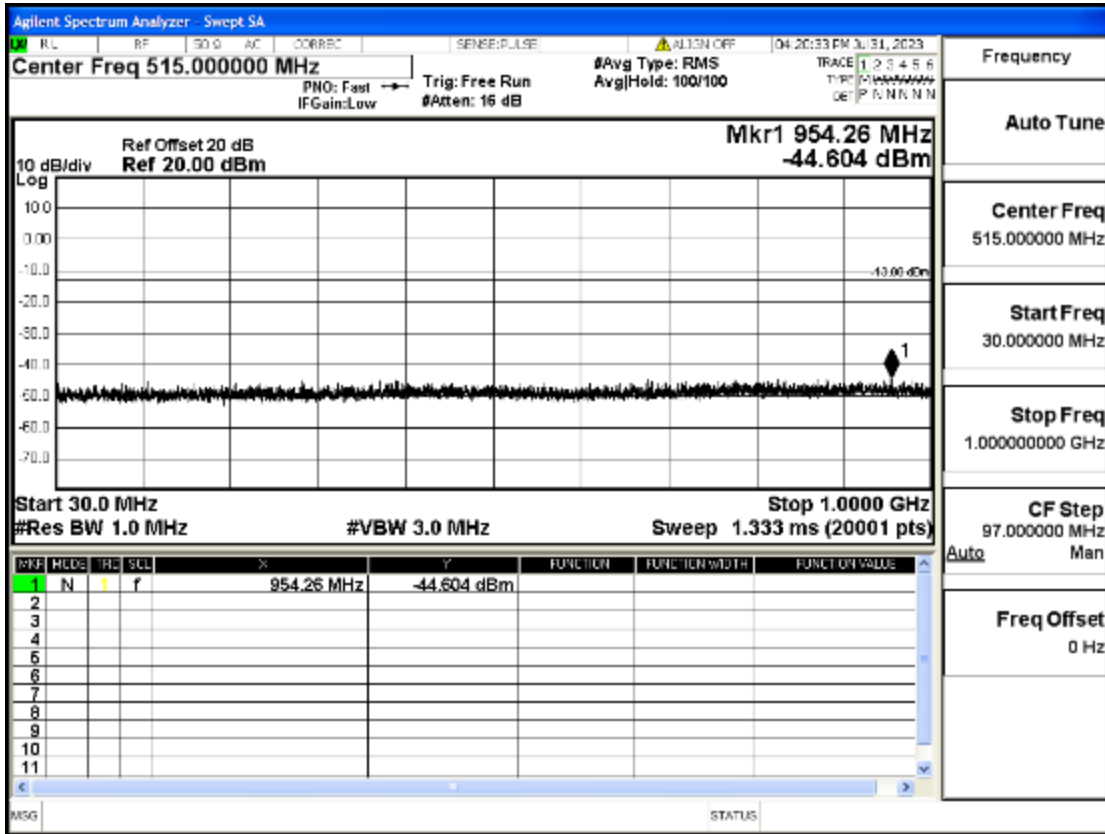
OB4-10-1715-Q16-50#LOW@7GHz-13.6GHz@Pass



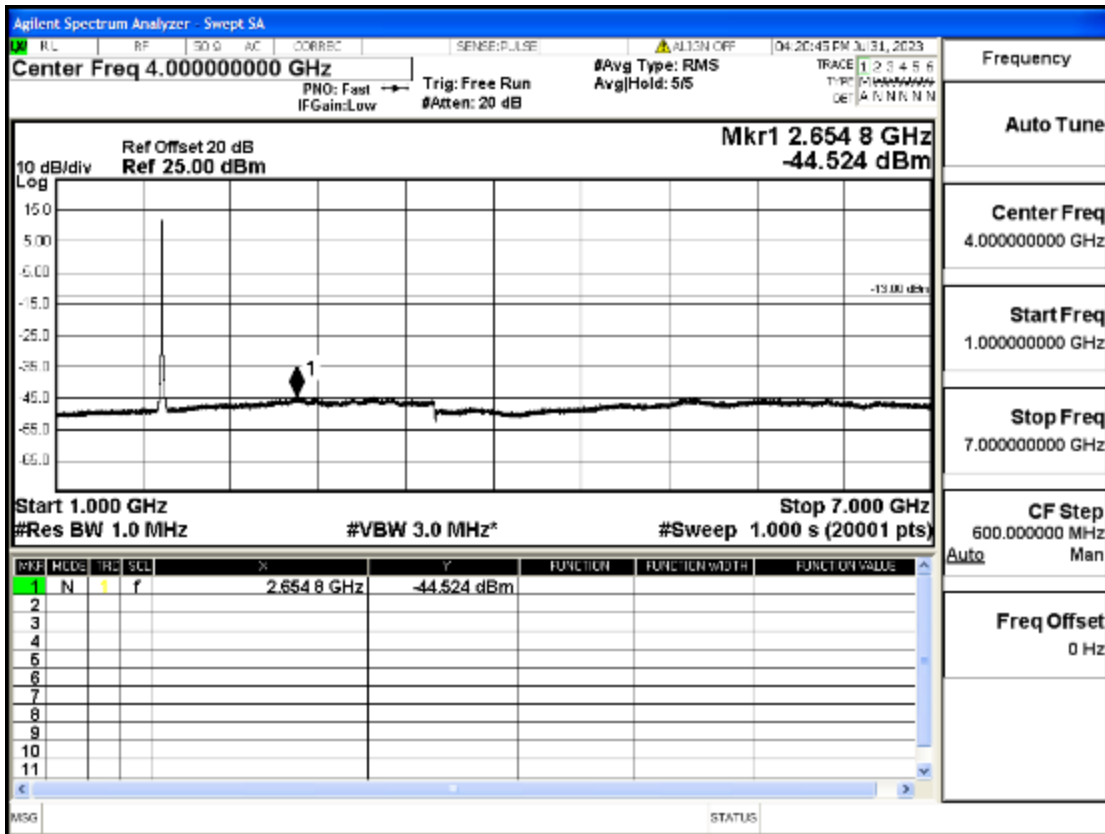
OB4-10-1715-Q16-50#LOW@13.6GHz-20GHz@Pass



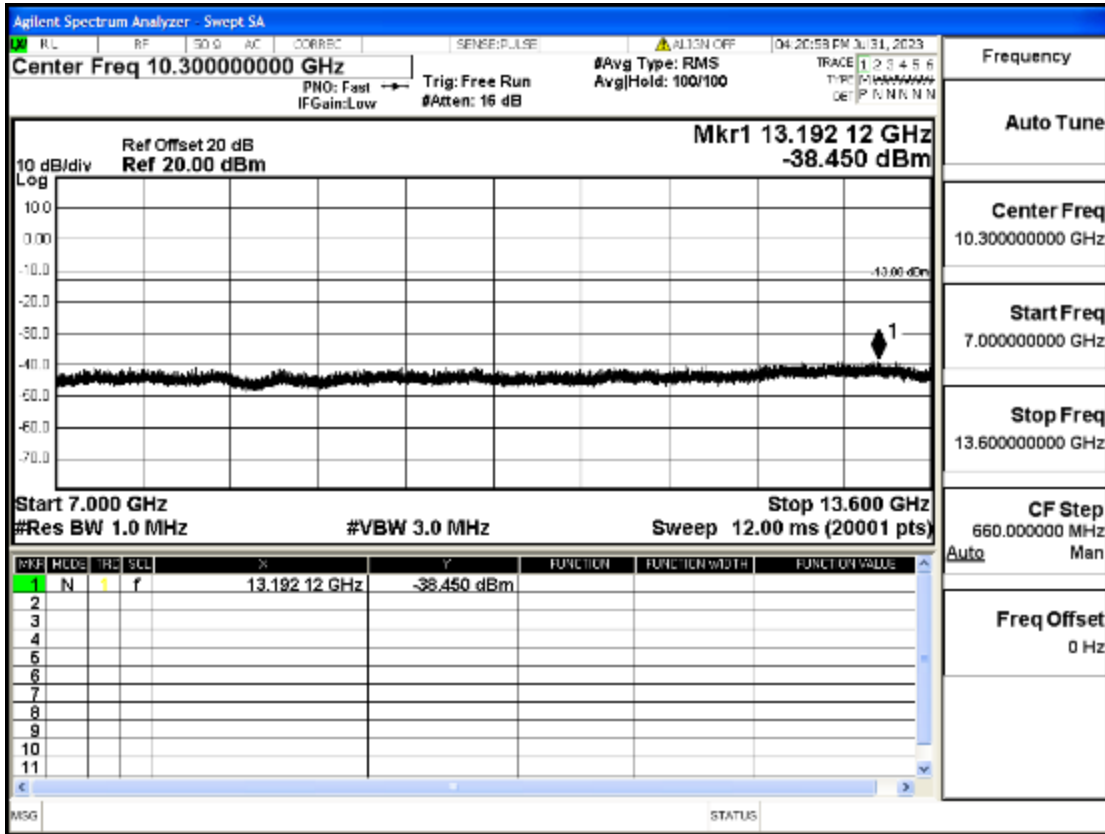
OB4-10-1732.5-Q16-50#LOW@30mHz-1GHz@Pass



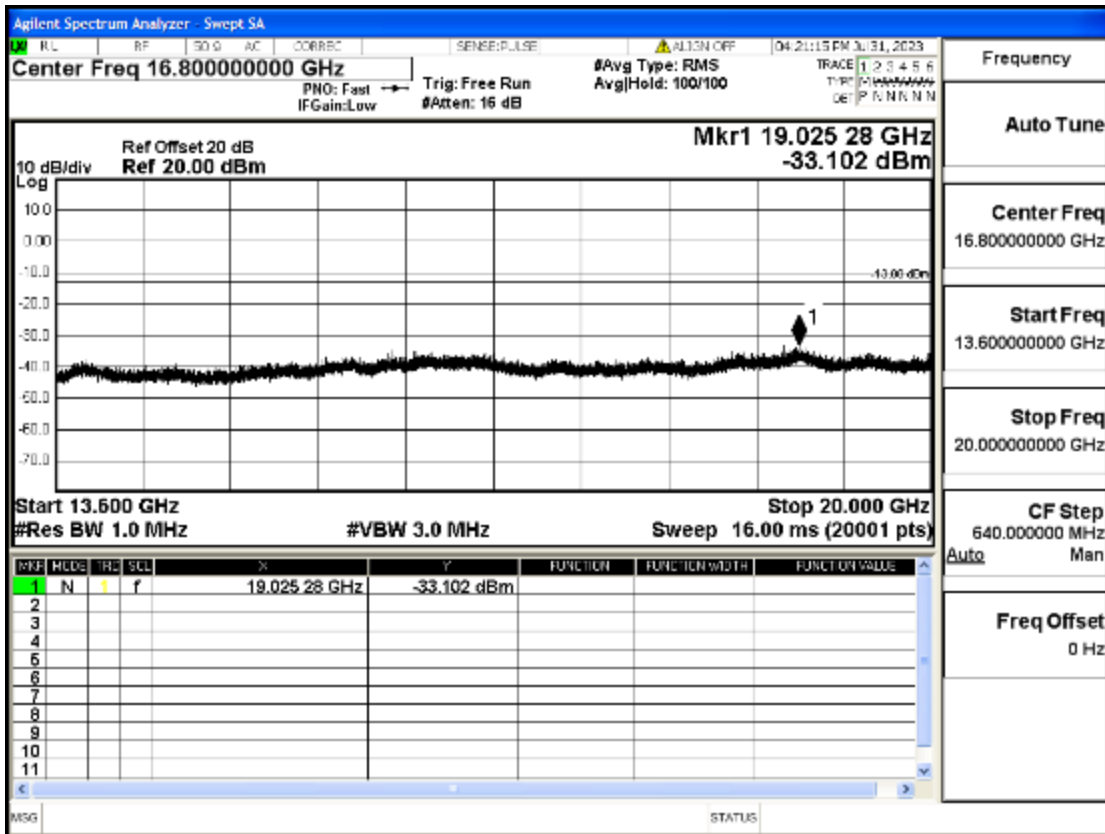
OB4-10-1732.5-Q16-50#LOW@1GHz-7GHz@Pass



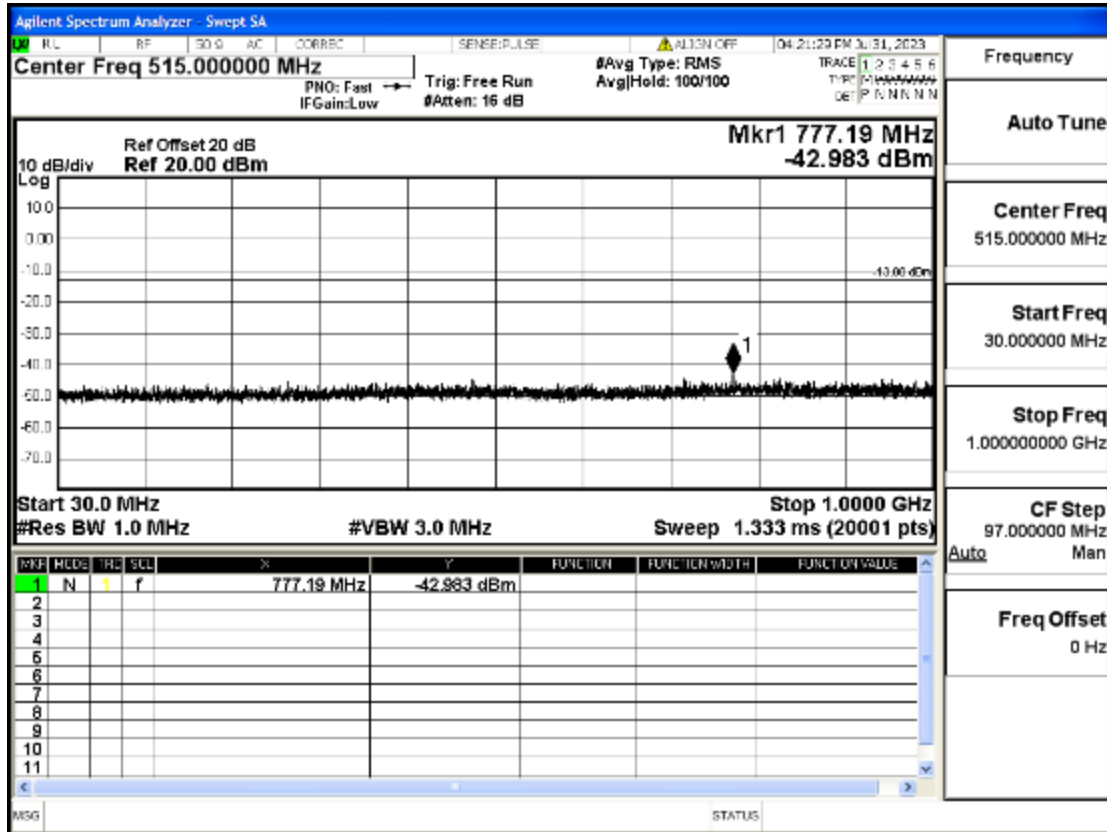
OB4-10-1732.5-Q16-50#LOW@7GHz-13.6GHz@Pass



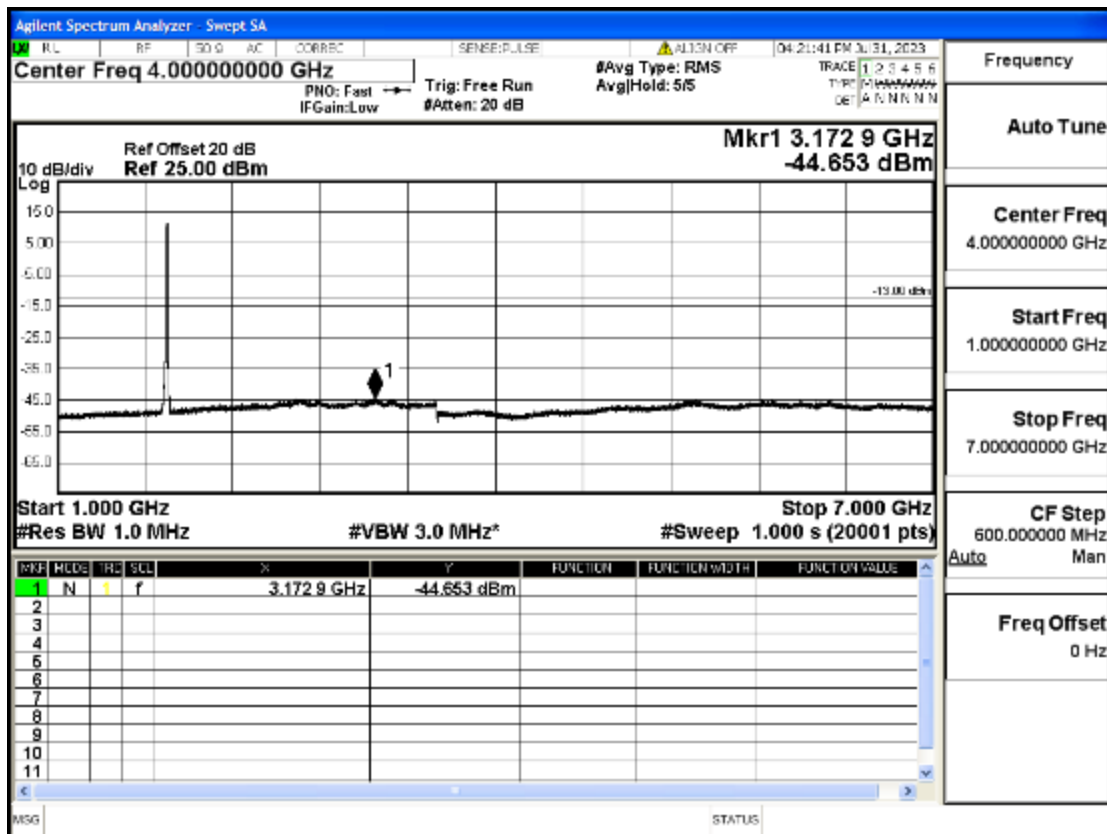
OB4-10-1732.5-Q16-50#LOW@13.6GHz-20GHz@Pass



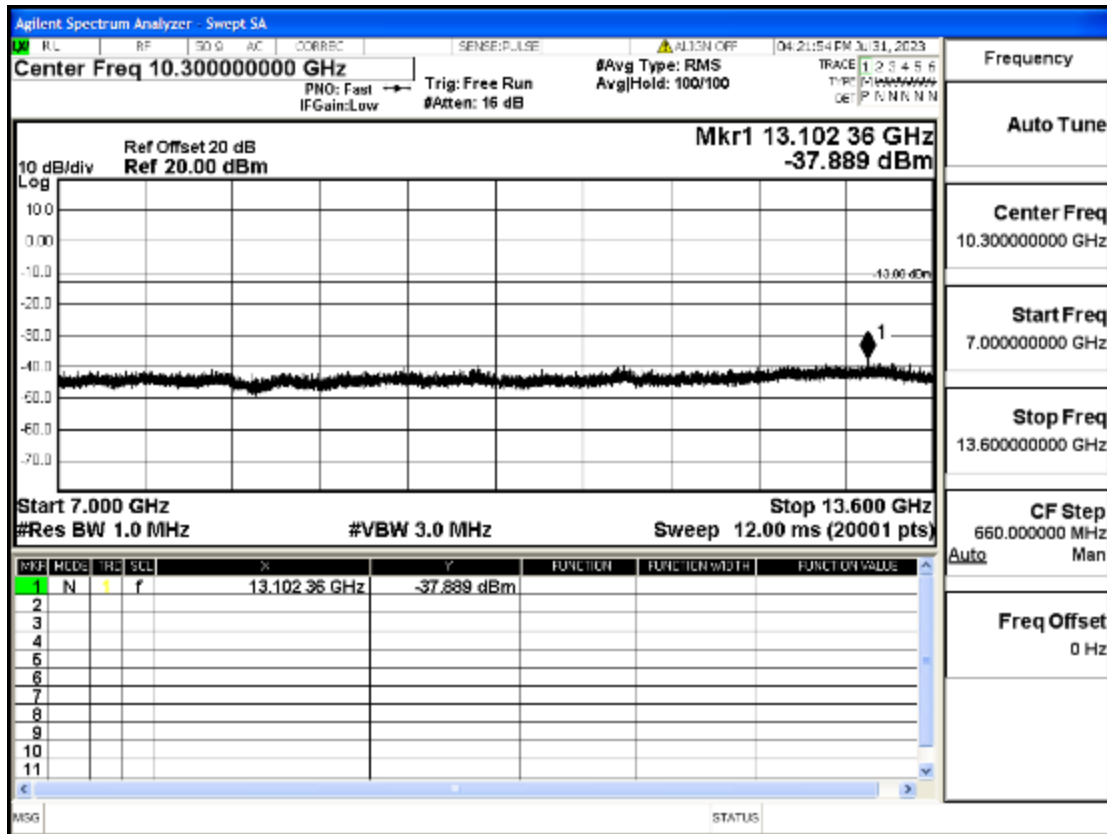
OB4-10-1750-Q16-50#LOW@30mHz-1GHz@Pass



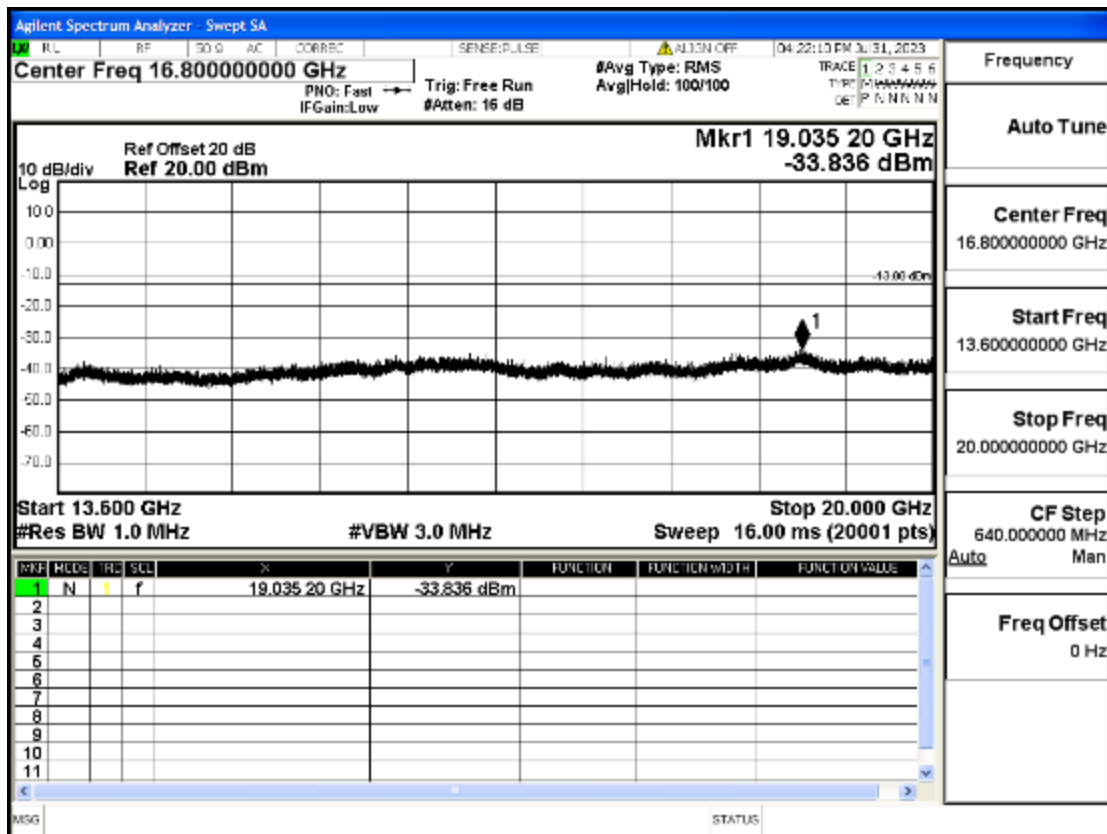
OB4-10-1750-Q16-50#LOW@1GHz-7GHz@Pass



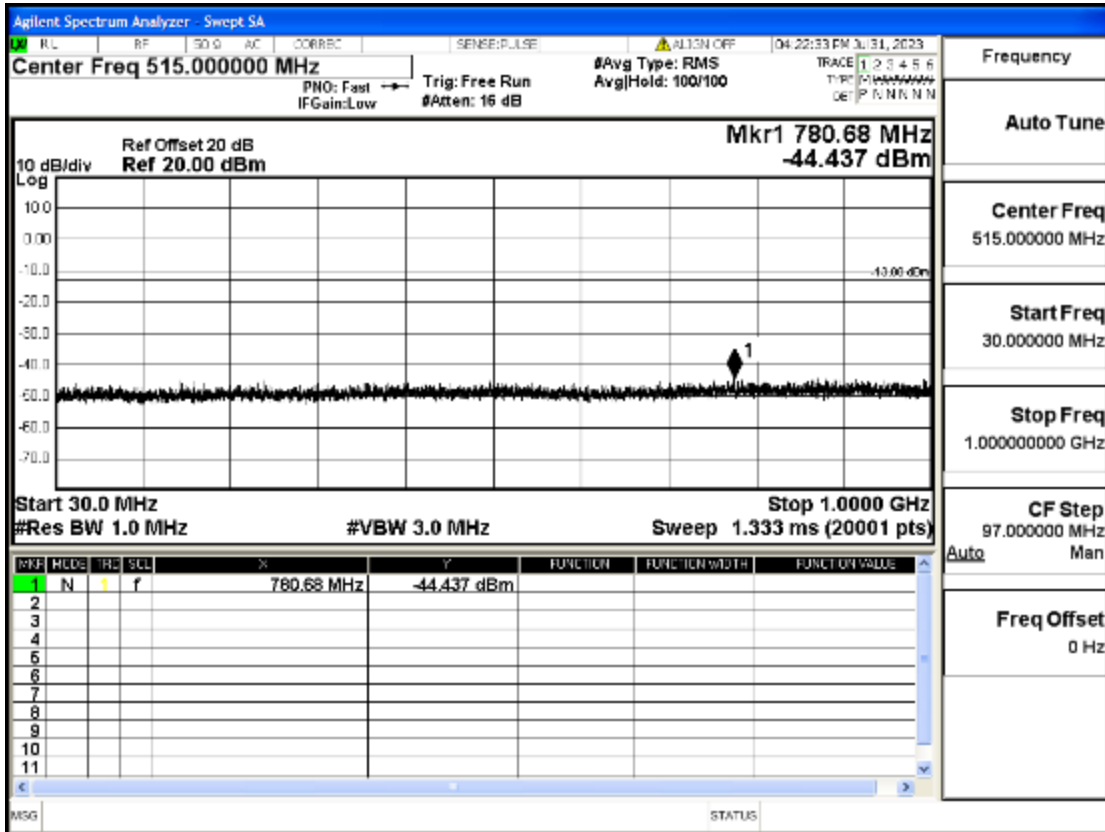
OB4-10-1750-Q16-50#LOW@7GHz-13.6GHz@Pass



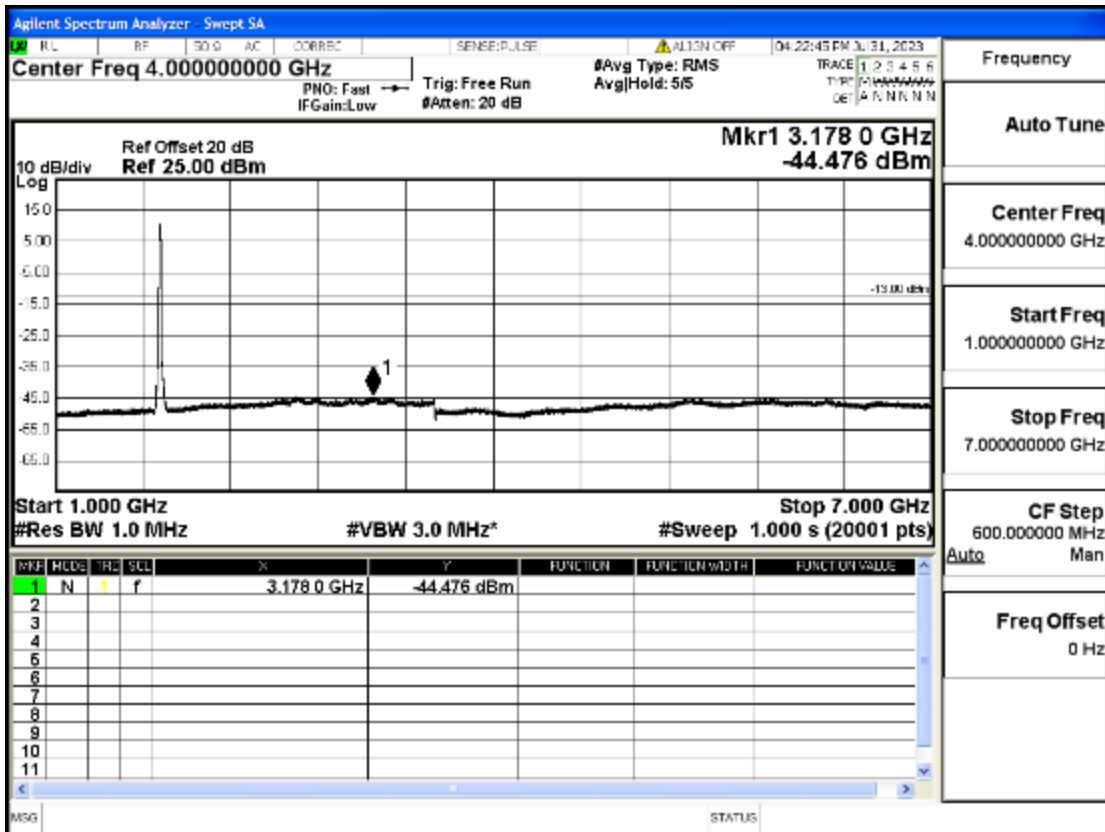
OB4-10-1750-Q16-50#LOW@13.6GHz-20GHz@Pass



OB4-15-1717.5-Q16-75#LOW@30mHz-1GHz@Pass

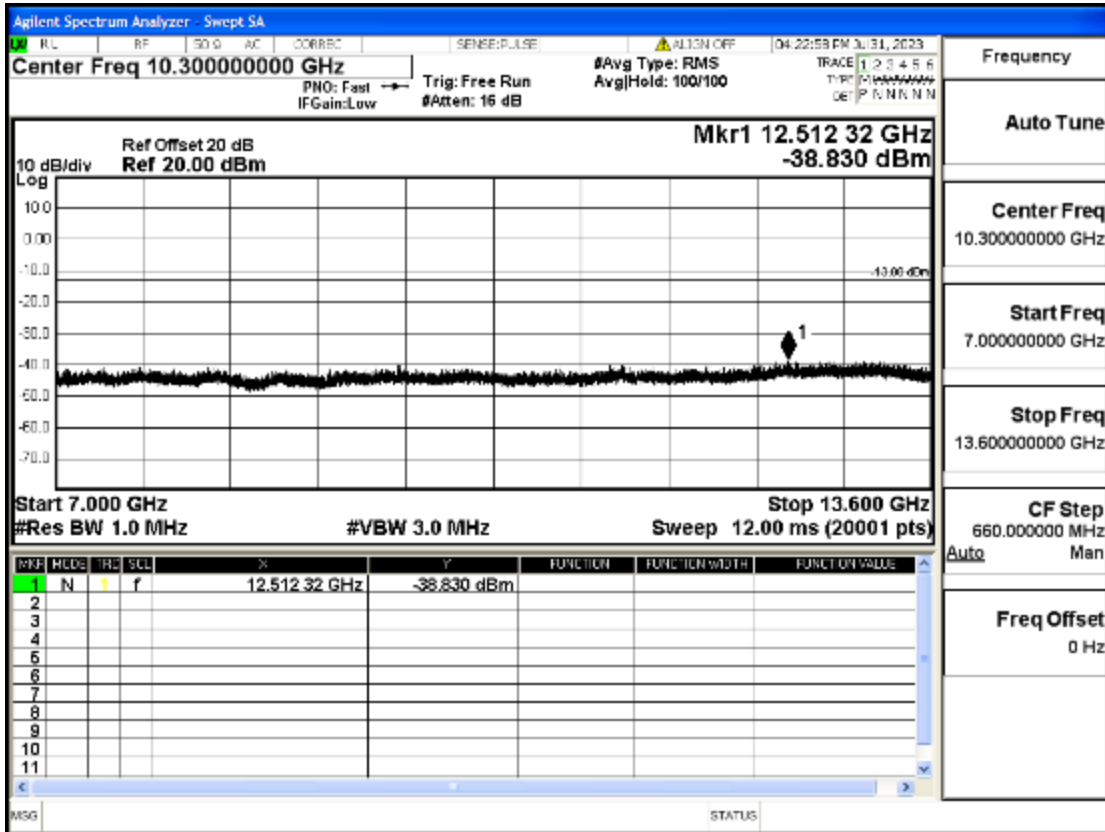


OB4-15-1717.5-Q16-75#LOW@1GHz-7GHz@Pass

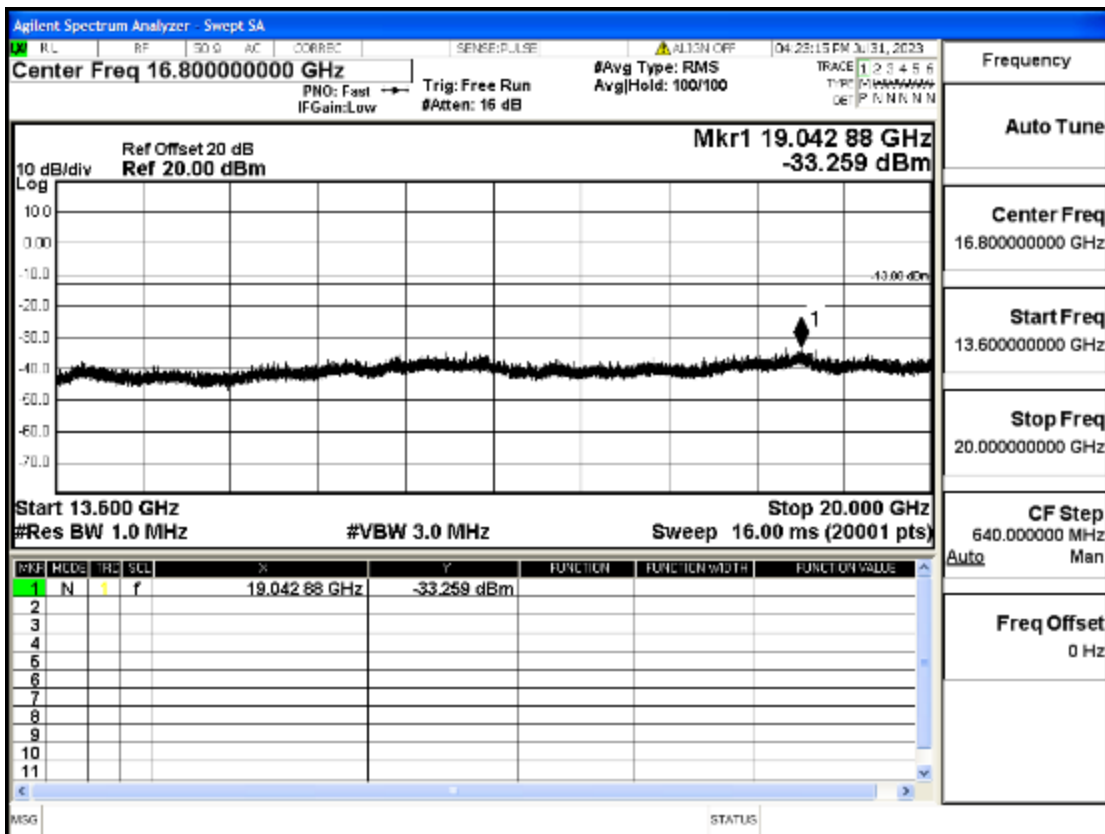




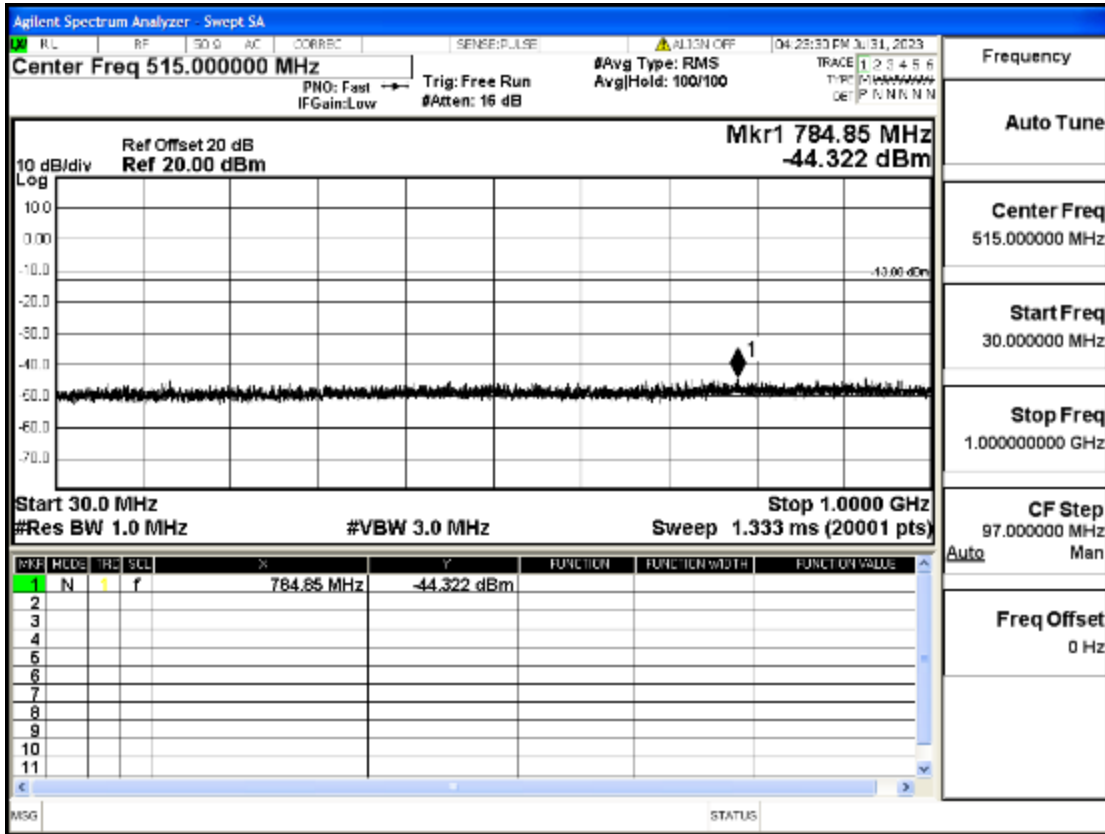
OB4-15-1717.5-Q16-75#LOW@7GHz-13.6GHz@Pass



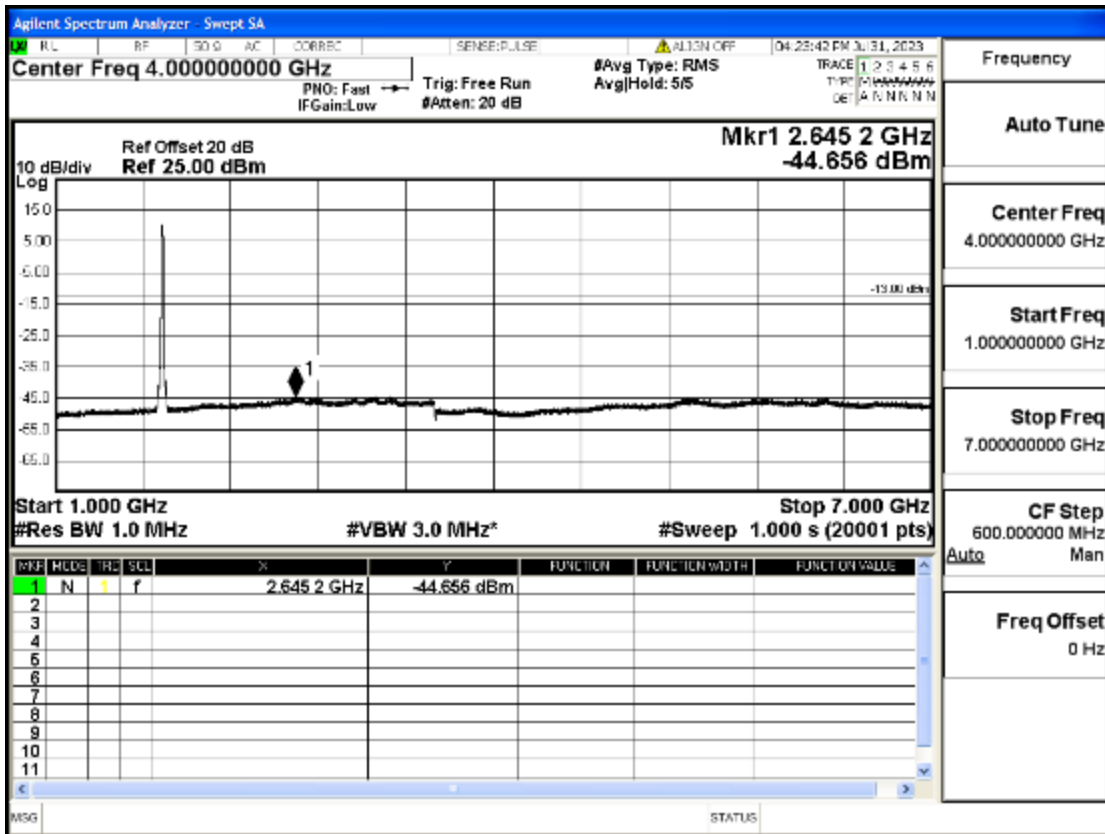
OB4-15-1717.5-Q16-75#LOW@13.6GHz-20GHz@Pass



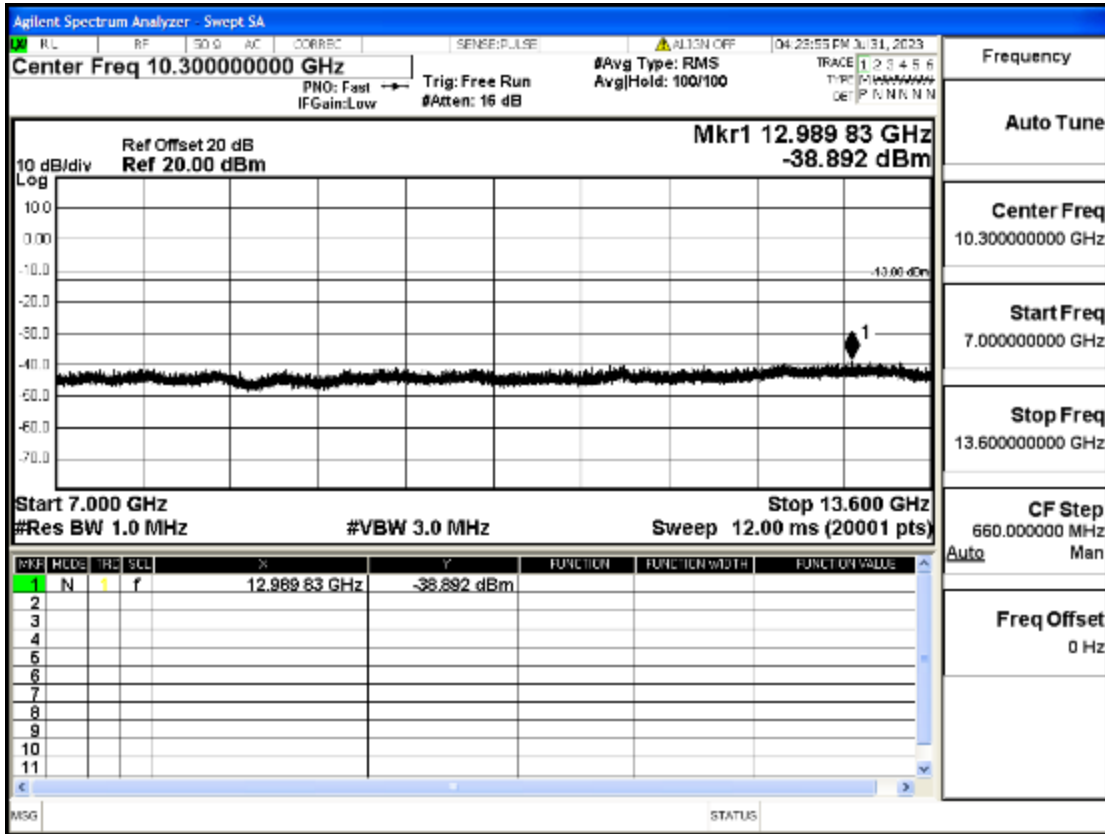
OB4-15-1732.5-Q16-75#LOW@30mHz-1GHz@Pass



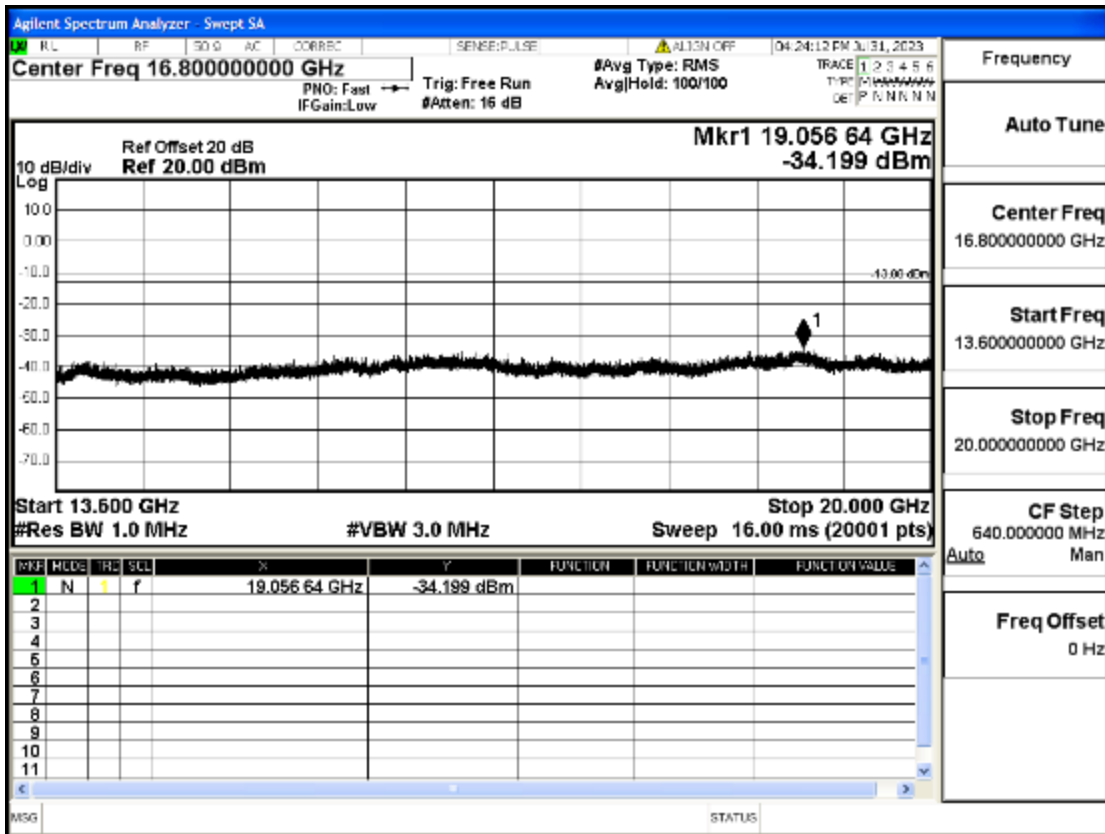
OB4-15-1732.5-Q16-75#LOW@1GHz-7GHz@Pass



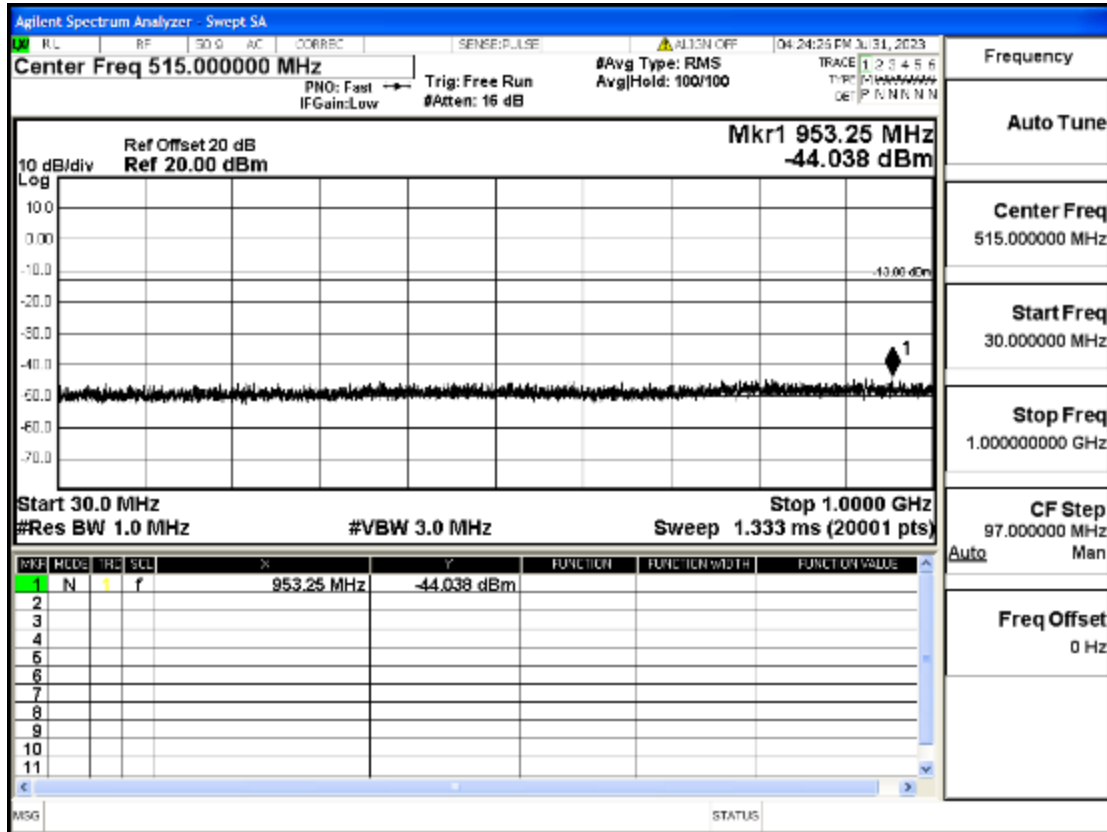
OB4-15-1732.5-Q16-75#LOW@7GHz-13.6GHz@Pass



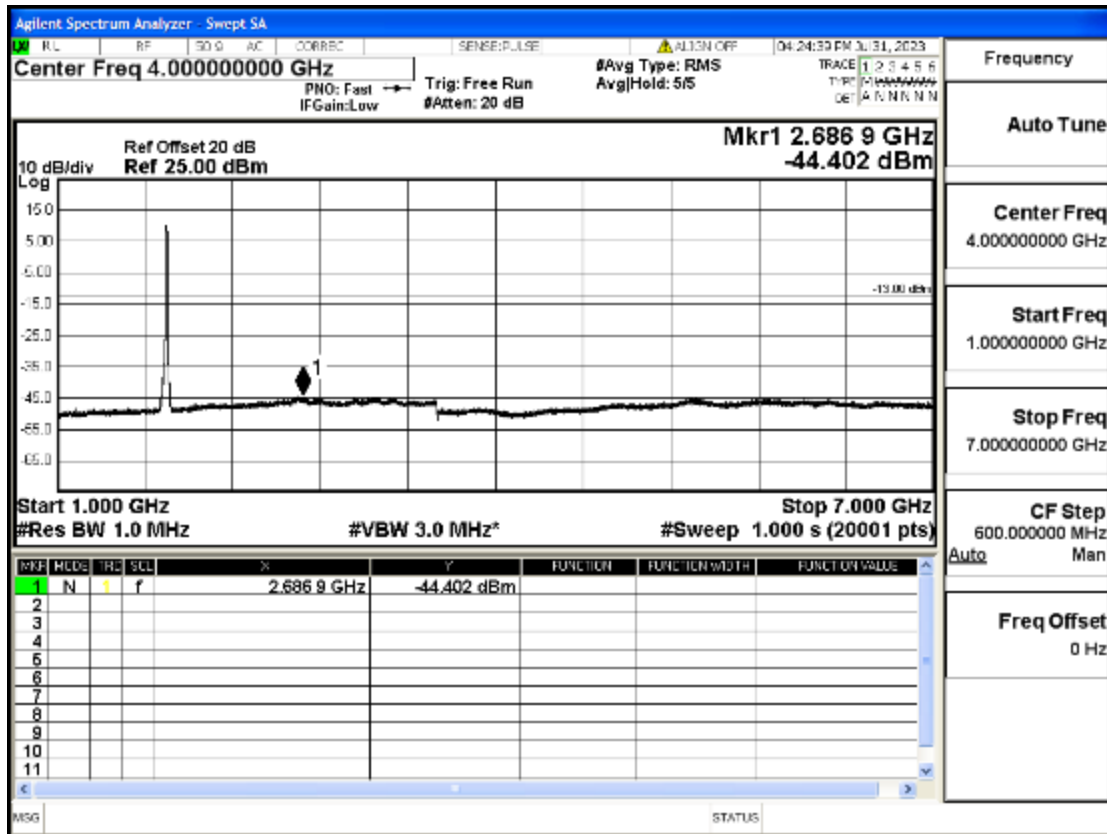
OB4-15-1732.5-Q16-75#LOW@13.6GHz-20GHz@Pass



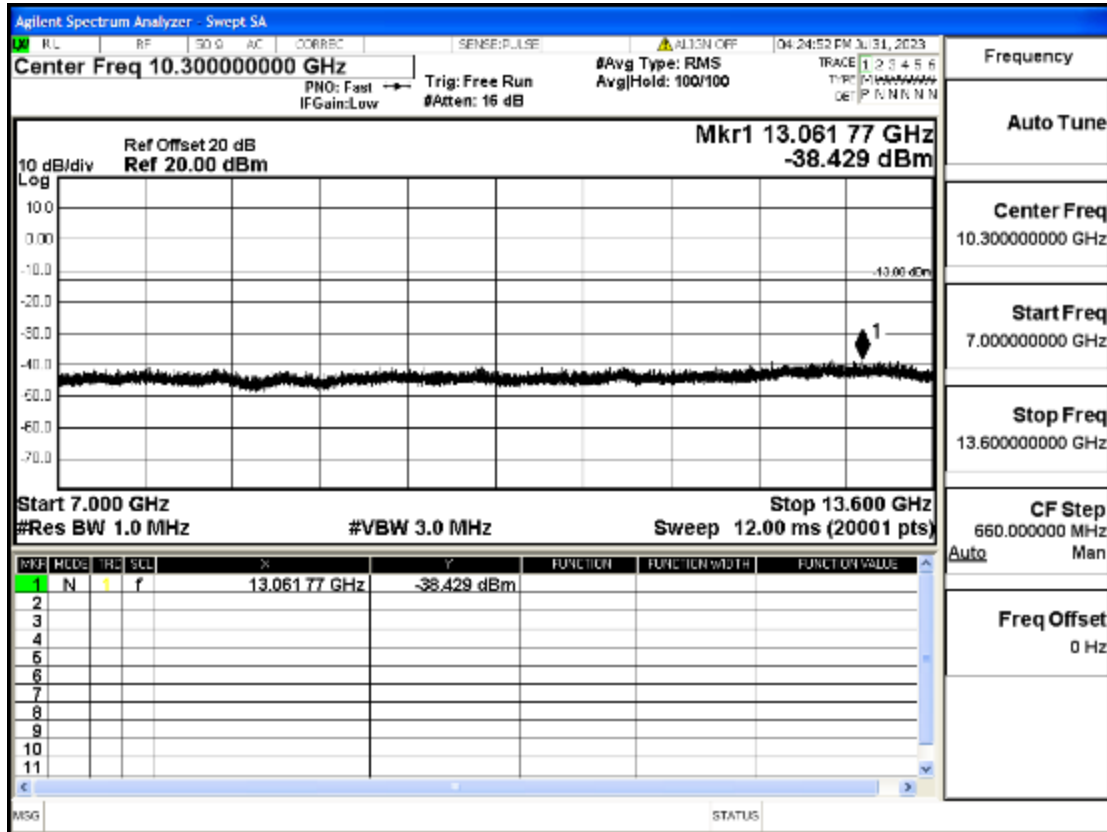
OB4-15-1747.5-Q16-75#LOW@30mHz-1GHz@Pass



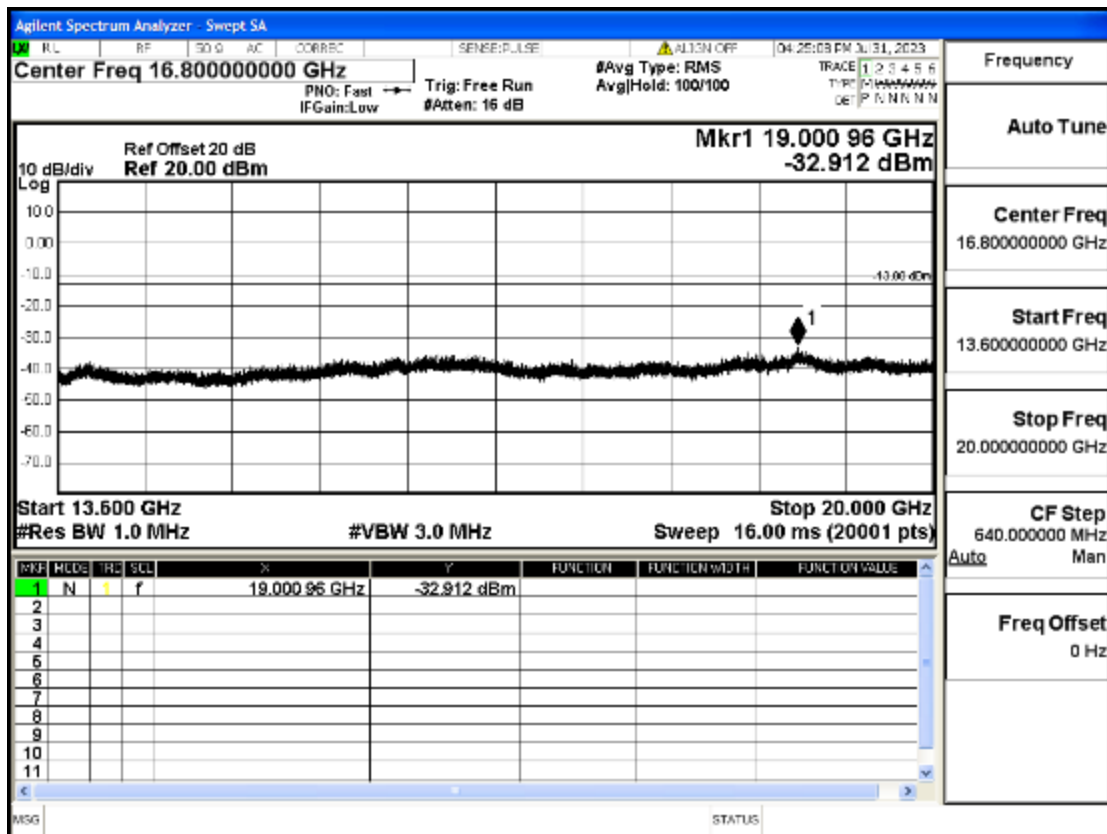
OB4-15-1747.5-Q16-75#LOW@1GHz-7GHz@Pass



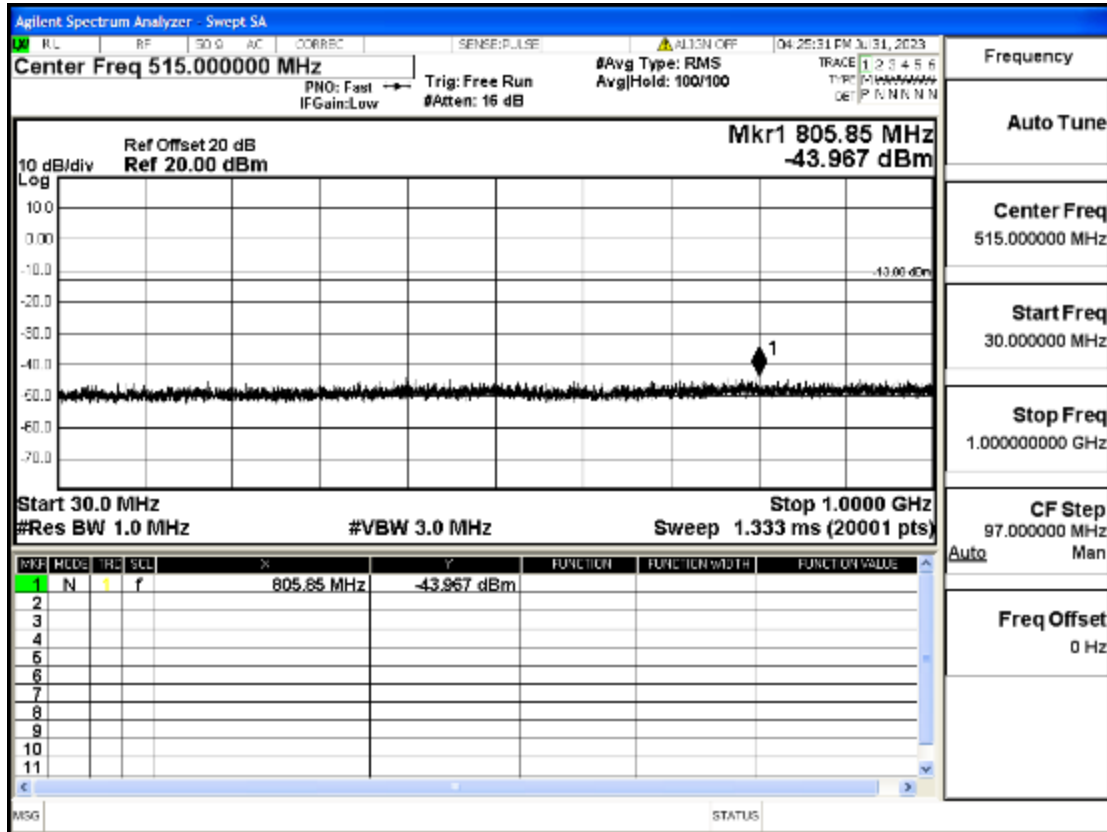
OB4-15-1747.5-Q16-75#LOW@7GHz-13.6GHz@Pass



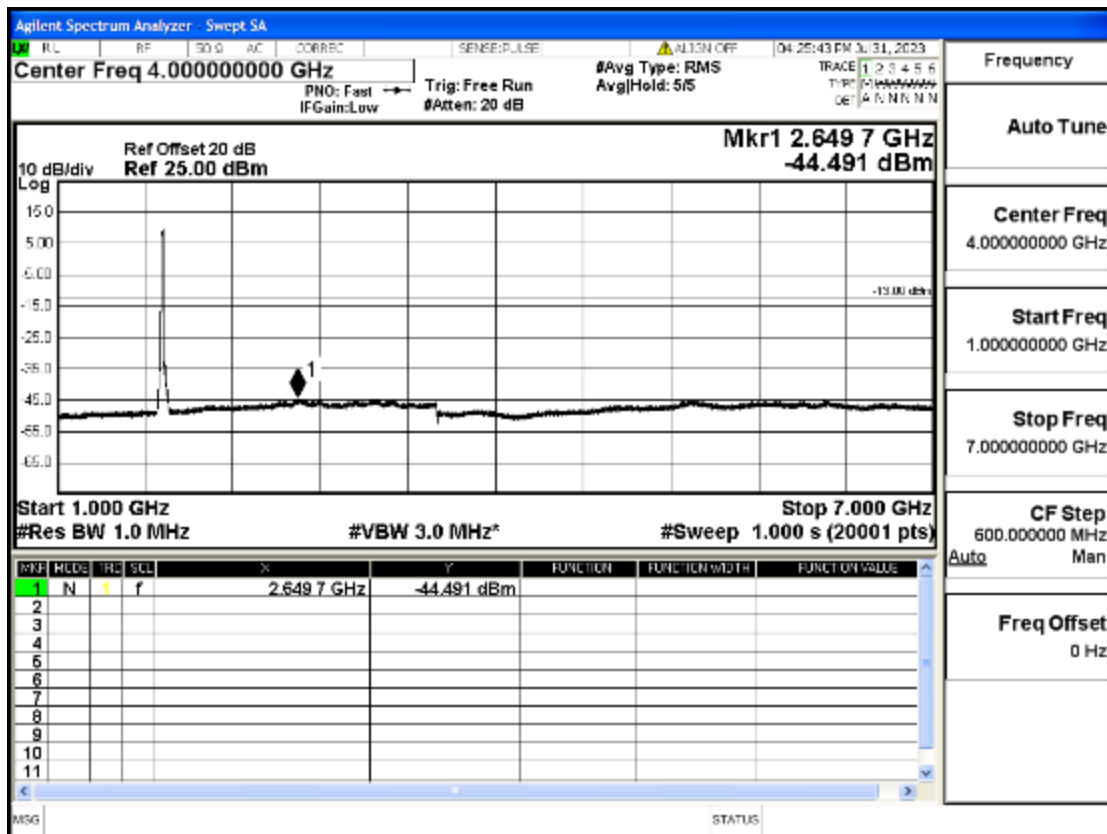
OB4-15-1747.5-Q16-75#LOW@13.6GHz-20GHz@Pass



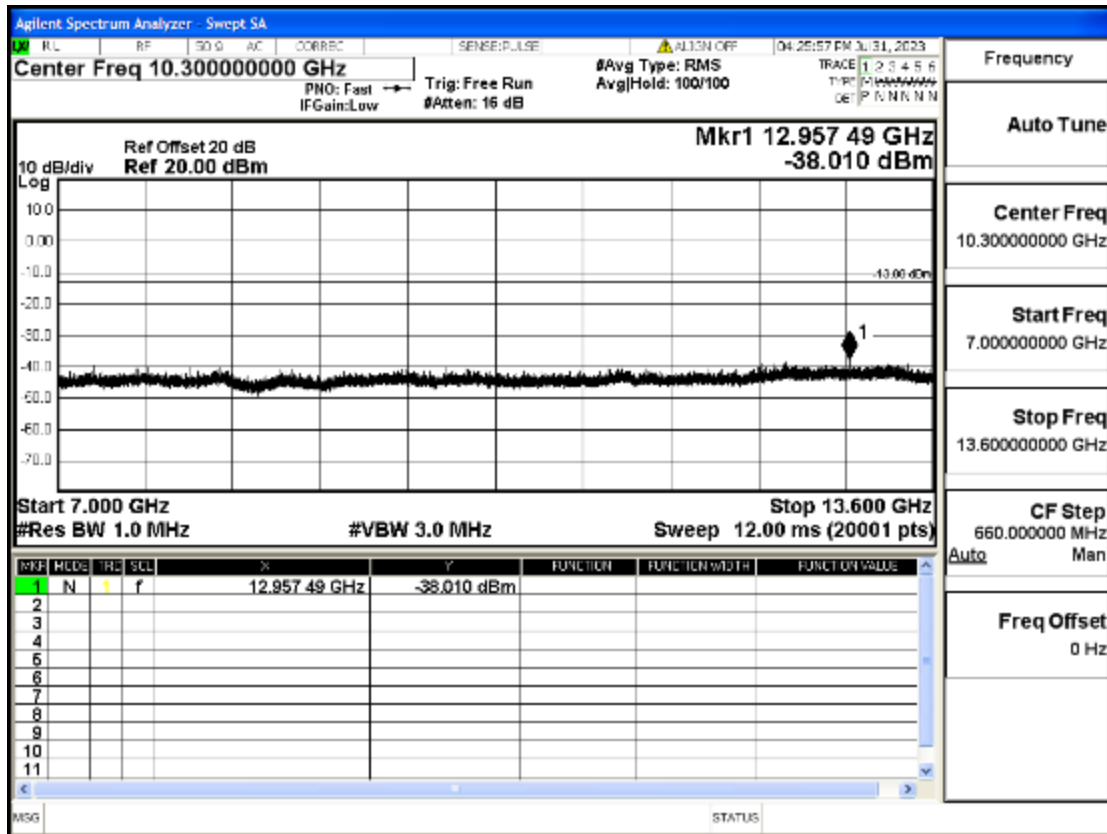
OB4-20-1720-Q16-100#LOW@30mHz-1GHz@Pass



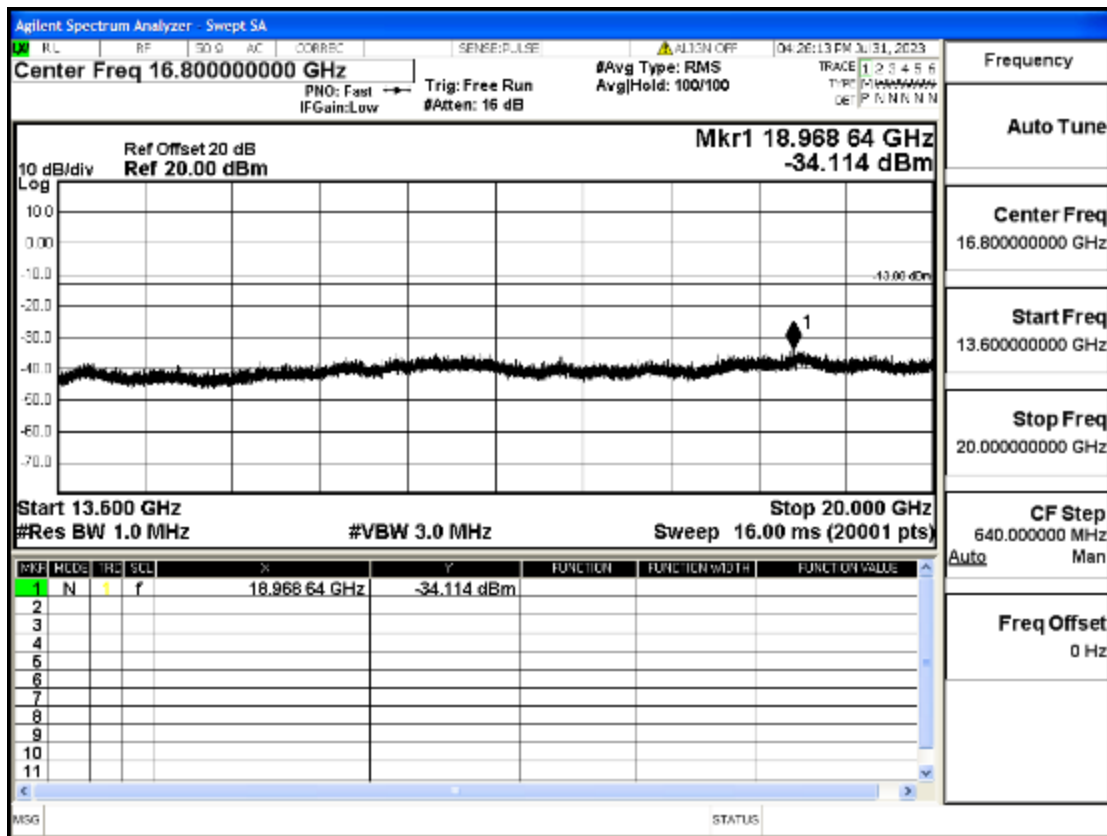
OB4-20-1720-Q16-100#LOW@1GHz-7GHz@Pass



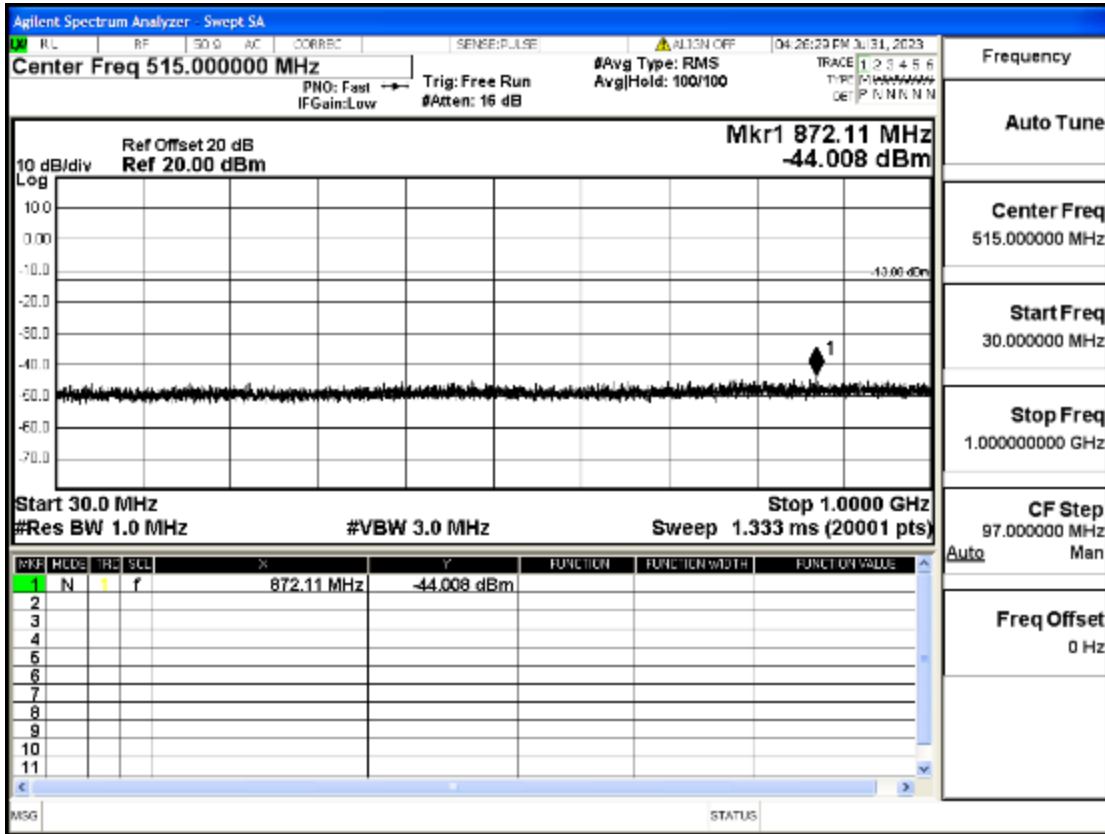
OB4-20-1720-Q16-100#LOW@7GHz-13.6GHz@Pass



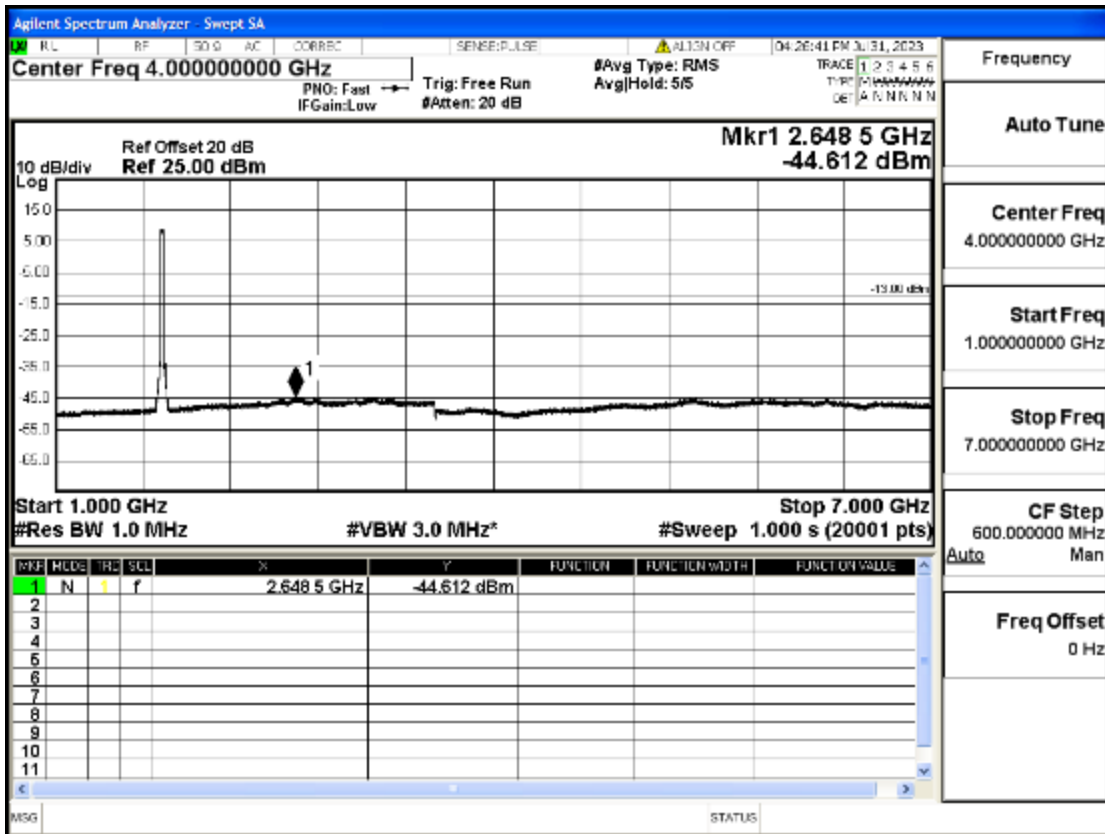
OB4-20-1720-Q16-100#LOW@13.6GHz-20GHz@Pass



OB4-20-1732.5-Q16-100#LOW@30mHz-1GHz@Pass

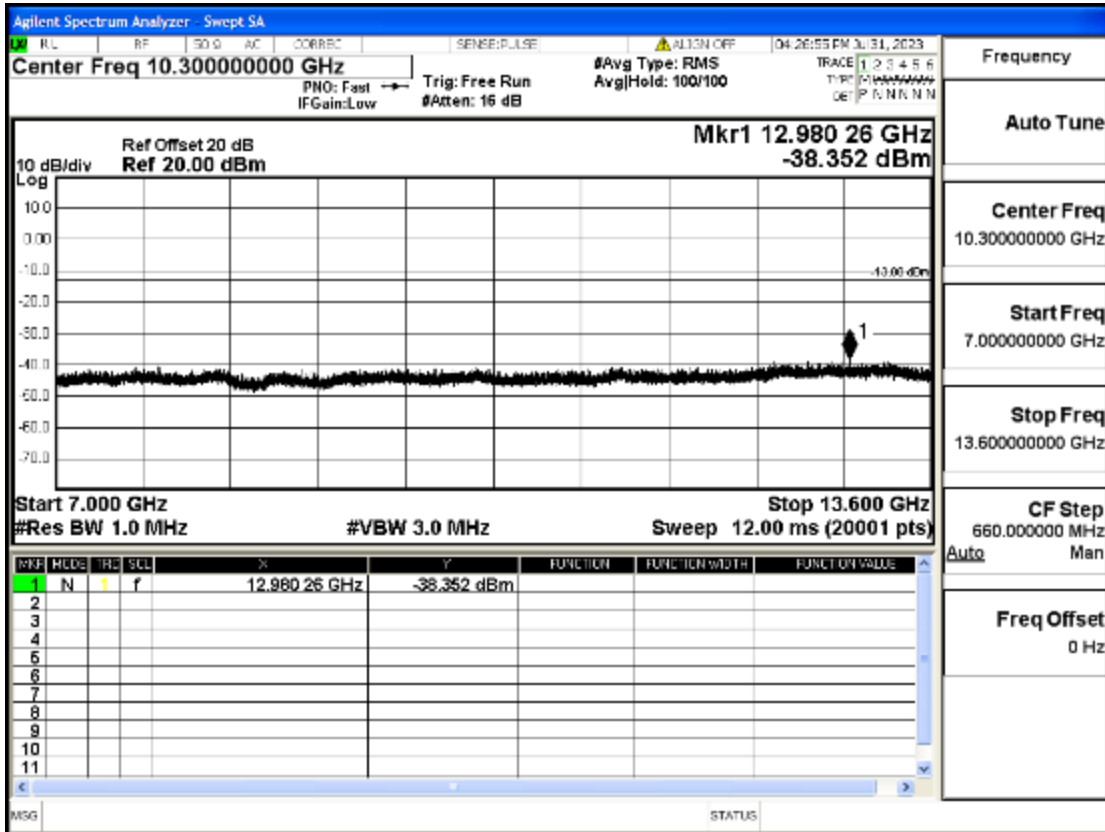


OB4-20-1732.5-Q16-100#LOW@1GHz-7GHz@Pass

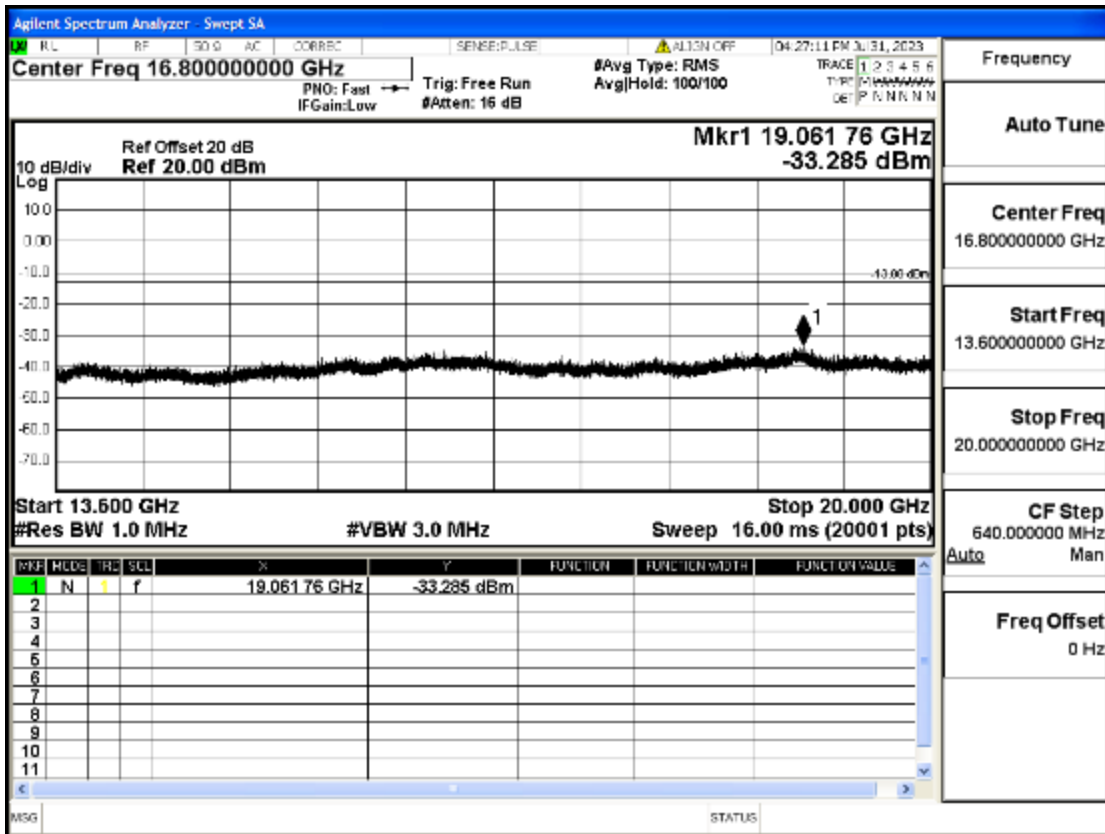




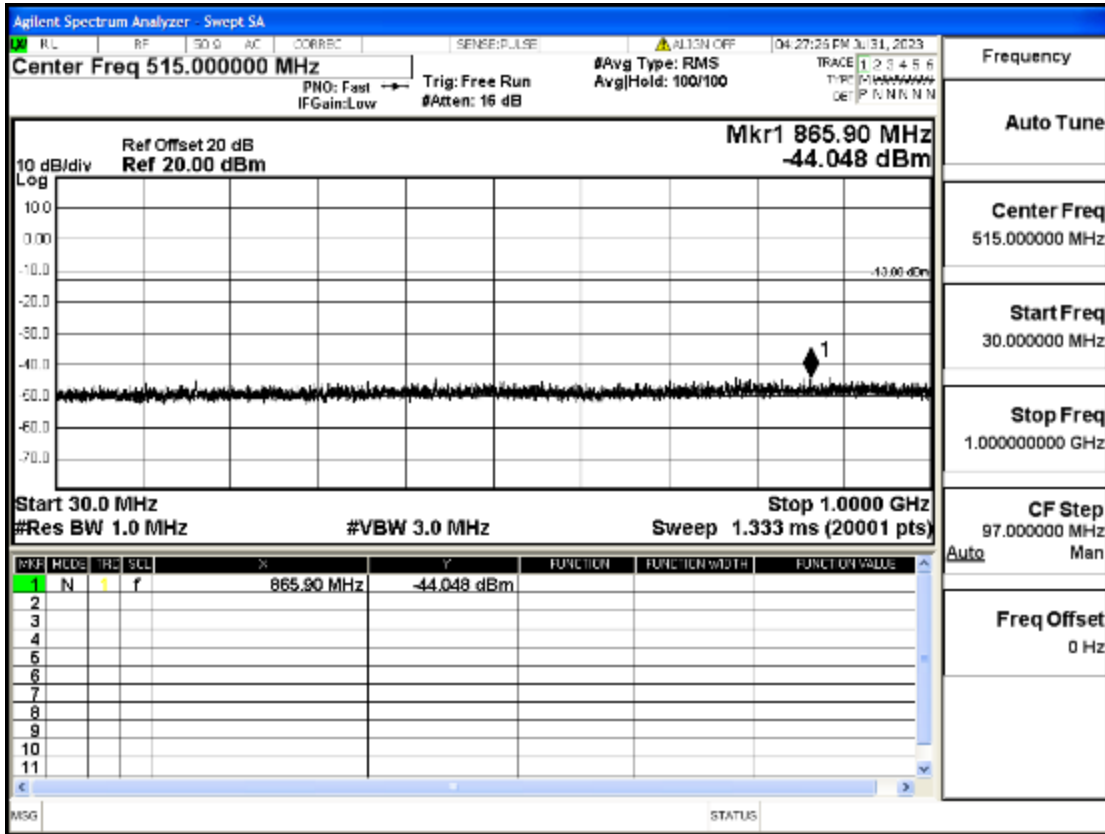
OB4-20-1732.5-Q16-100#LOW@7GHz-13.6GHz@Pass



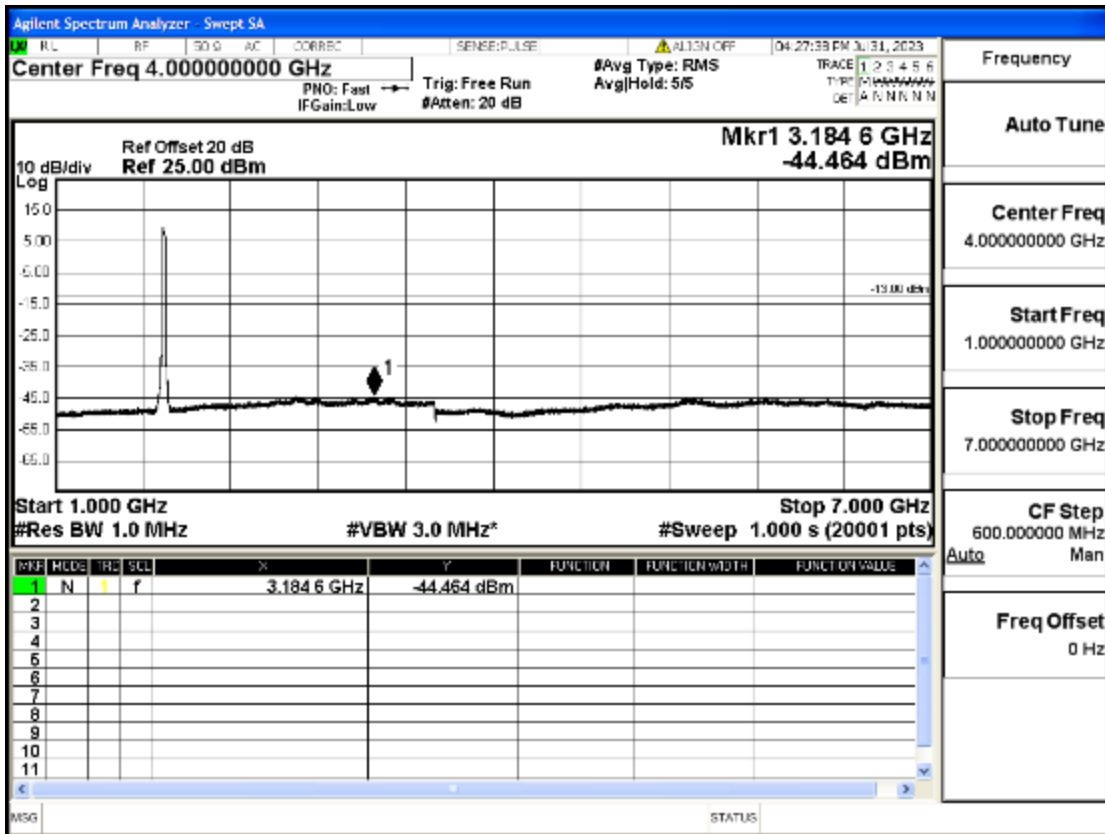
OB4-20-1732.5-Q16-100#LOW@13.6GHz-20GHz@Pass



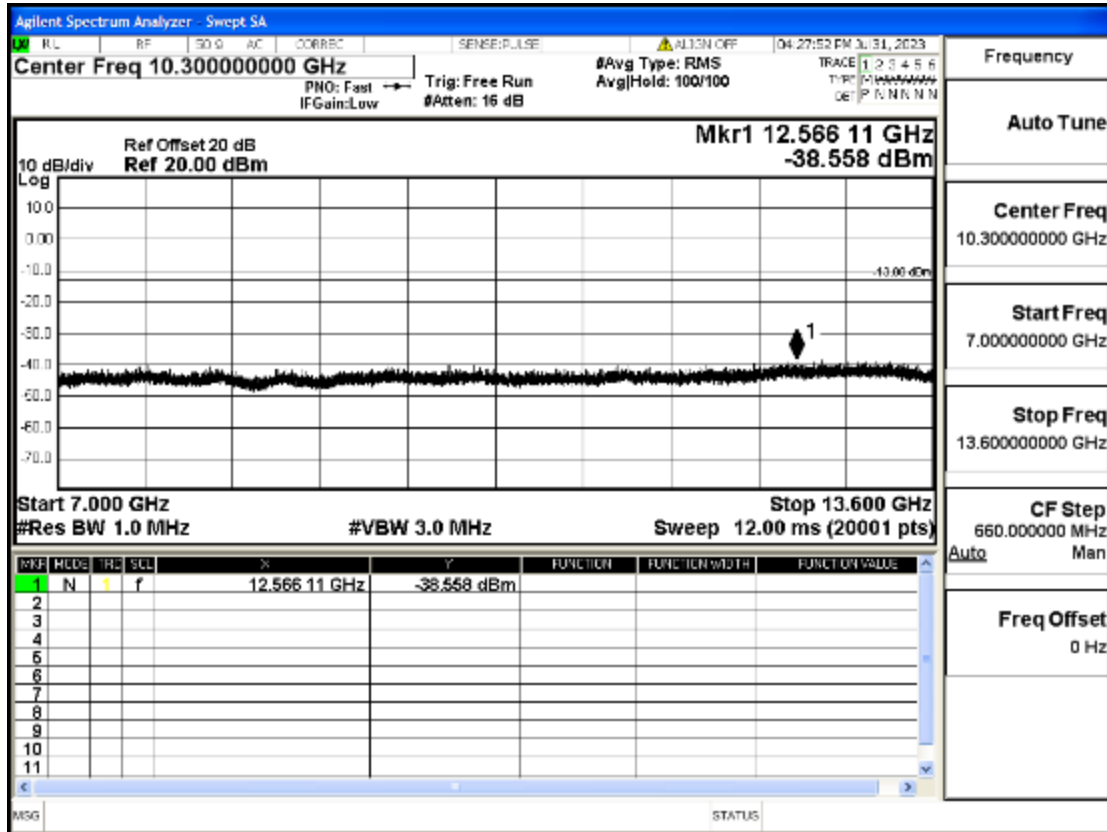
OB4-20-1745-Q16-100#LOW@30mHz-1GHz@Pass



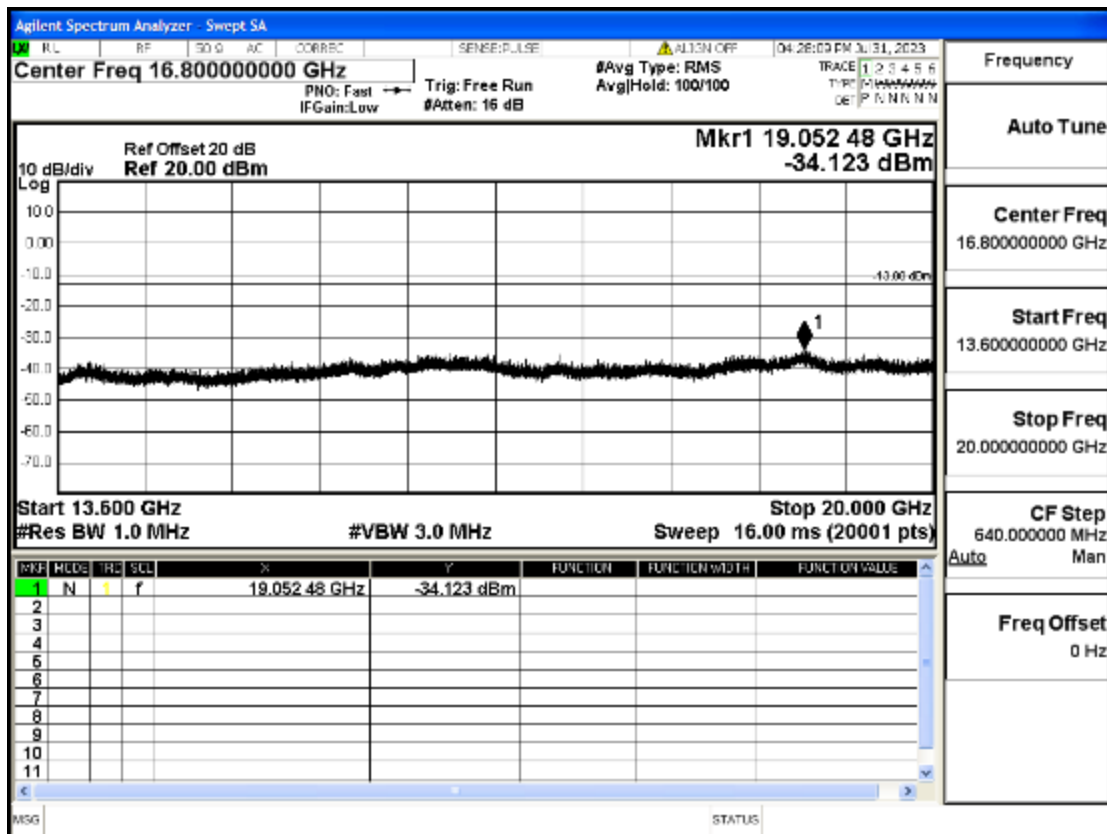
OB4-20-1745-Q16-100#LOW@1GHz-7GHz@Pass



OB4-20-1745-Q16-100#LOW@7GHz-13.6GHz@Pass



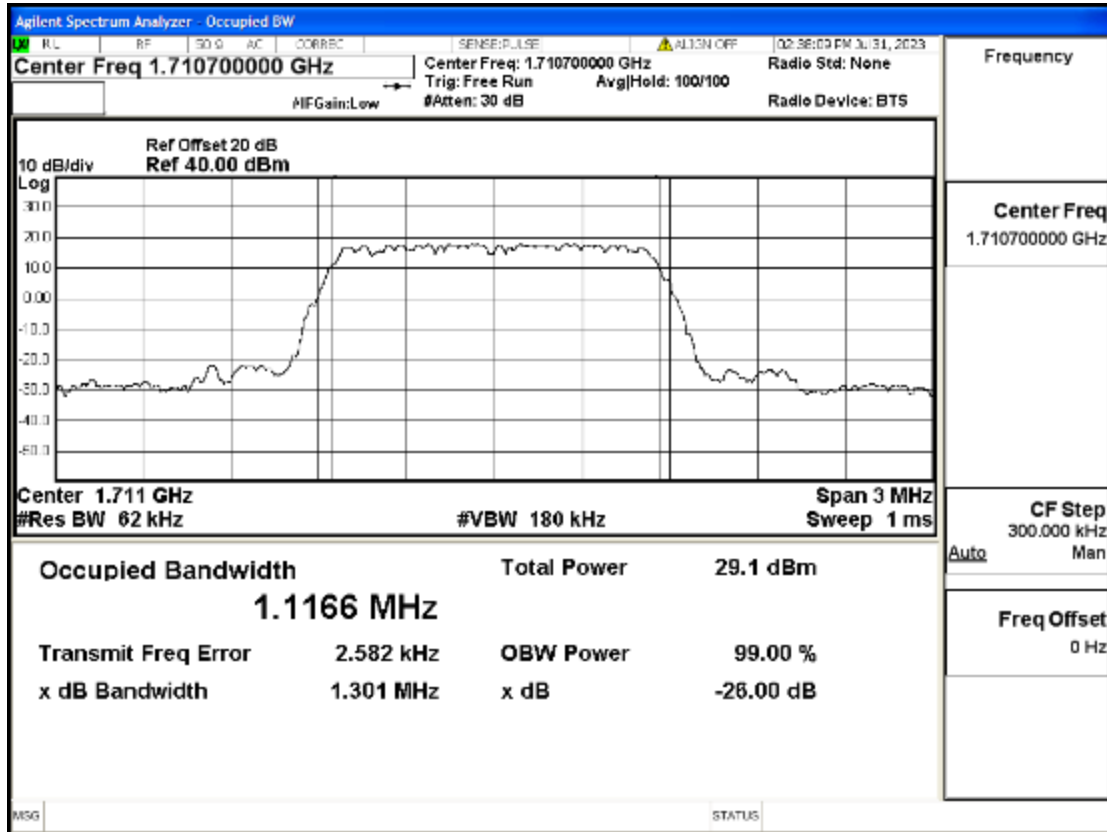
OB4-20-1745-Q16-100#LOW@13.6GHz-20GHz@Pass



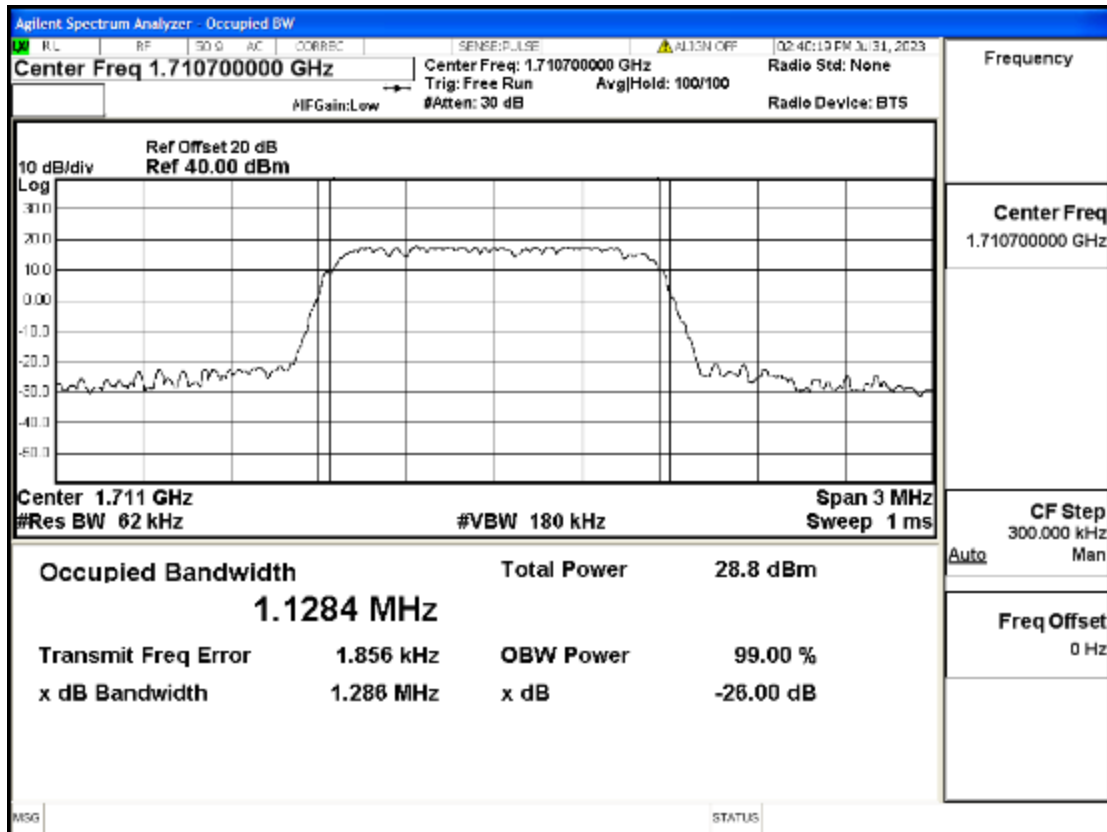
### Emission bandwidth and OBW

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth(KHz)	Emission Bandwidth(KHz)	Limit
Band4	1.4	1710.7	QPSK	6	LOW	1116.6	1301	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1128.4	1286	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1110.4	1295	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1121.1	1280	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1118.4	1292	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1118.1	1285	No limit
Band4	3	1711.5	QPSK	15	LOW	2783.1	3138	No limit
Band4	3	1711.5	16QAM	15	LOW	2759	3088	No limit
Band4	3	1732.5	QPSK	15	LOW	2752.6	3086	No limit
Band4	3	1732.5	16QAM	15	LOW	2757.8	3102	No limit
Band4	3	1753.5	QPSK	15	LOW	2779.4	3065	No limit
Band4	3	1753.5	16QAM	15	LOW	2769.6	3091	No limit
Band4	5	1712.5	QPSK	25	LOW	4589.2	5045	No limit
Band4	5	1712.5	16QAM	25	LOW	4563.3	5034	No limit
Band4	5	1732.5	QPSK	25	LOW	4562.8	5054	No limit
Band4	5	1732.5	16QAM	25	LOW	4554.6	5120	No limit
Band4	5	1752.5	QPSK	25	LOW	4568.1	5097	No limit
Band4	5	1752.5	16QAM	25	LOW	4603.4	5094	No limit
Band4	10	1715	QPSK	50	LOW	9136.5	10120	No limit
Band4	10	1715	16QAM	50	LOW	9099	10190	No limit
Band4	10	1732.5	QPSK	50	LOW	9094.2	9935	No limit
Band4	10	1732.5	16QAM	50	LOW	9084.5	9985	No limit
Band4	10	1750	QPSK	50	LOW	9115.5	10050	No limit
Band4	10	1750	16QAM	50	LOW	9126	9922	No limit
Band4	15	1717.5	QPSK	75	LOW	13680	15500	No limit
Band4	15	1717.5	16QAM	75	LOW	13675	15300	No limit
Band4	15	1732.5	QPSK	75	LOW	13663	15170	No limit
Band4	15	1732.5	16QAM	75	LOW	13688	15430	No limit
Band4	15	1747.5	QPSK	75	LOW	13747	15330	No limit
Band4	15	1747.5	16QAM	75	LOW	13708	15350	No limit
Band4	20	1720	QPSK	100	LOW	18313	20170	No limit
Band4	20	1720	16QAM	100	LOW	18250	20130	No limit
Band4	20	1732.5	QPSK	100	LOW	18217	20130	No limit
Band4	20	1732.5	16QAM	100	LOW	18171	20160	No limit
Band4	20	1745	QPSK	100	LOW	18305	20150	No limit
Band4	20	1745	16QAM	100	LOW	18335	20340	No limit

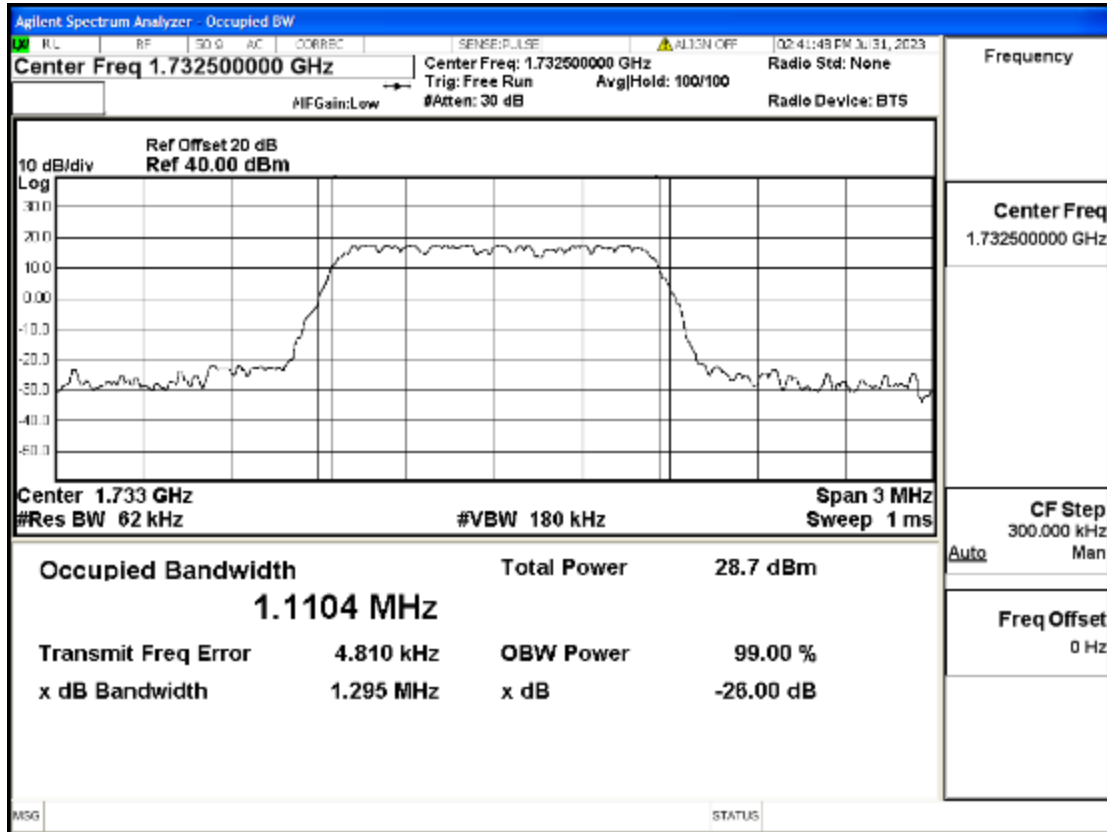
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



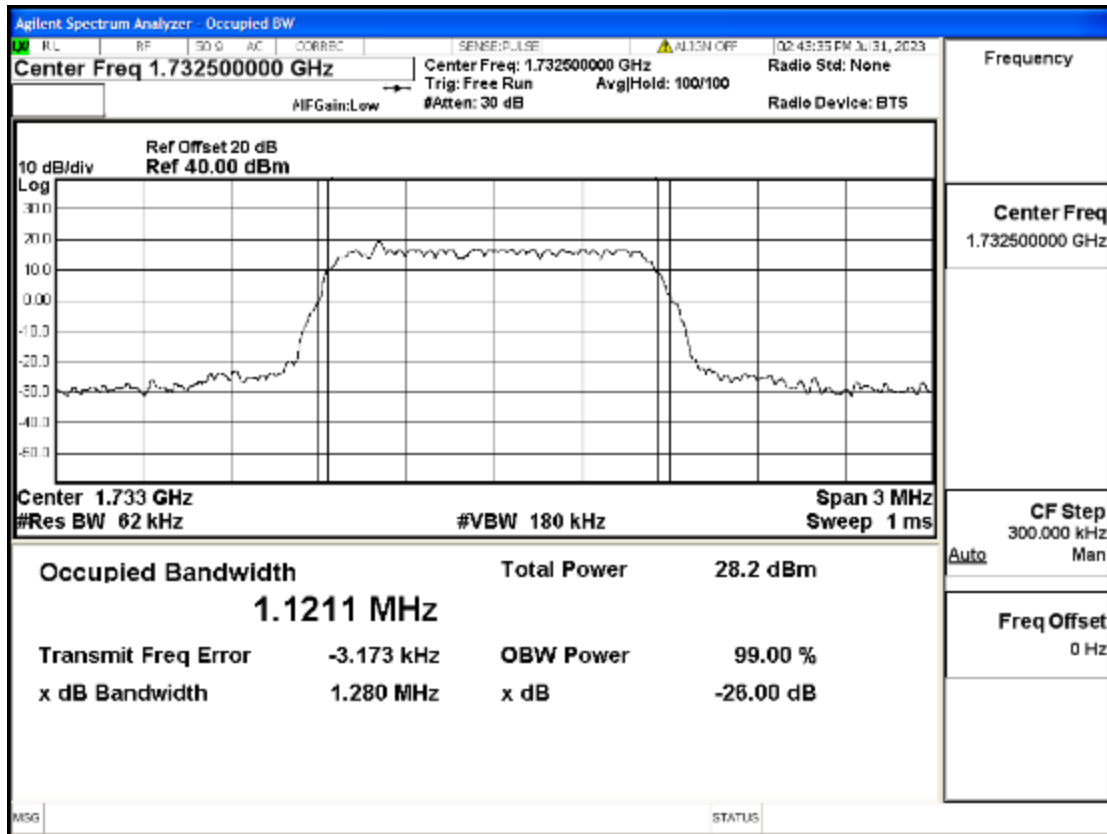
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



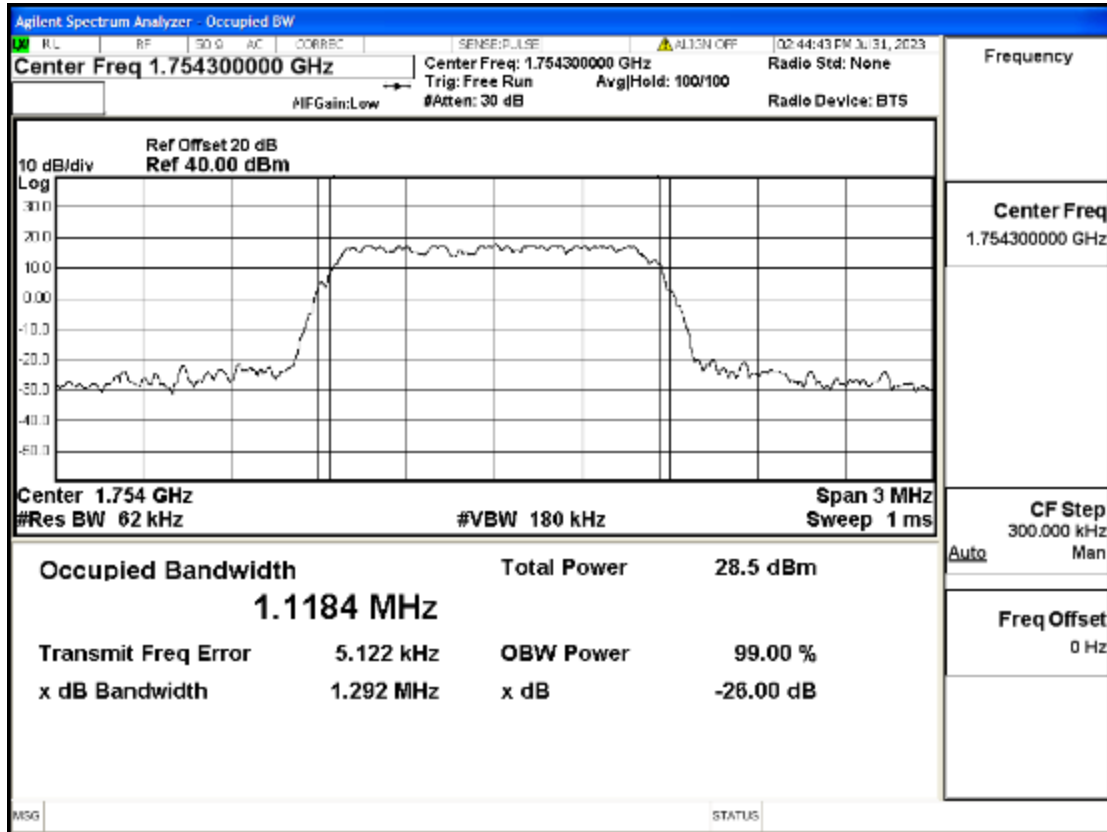
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



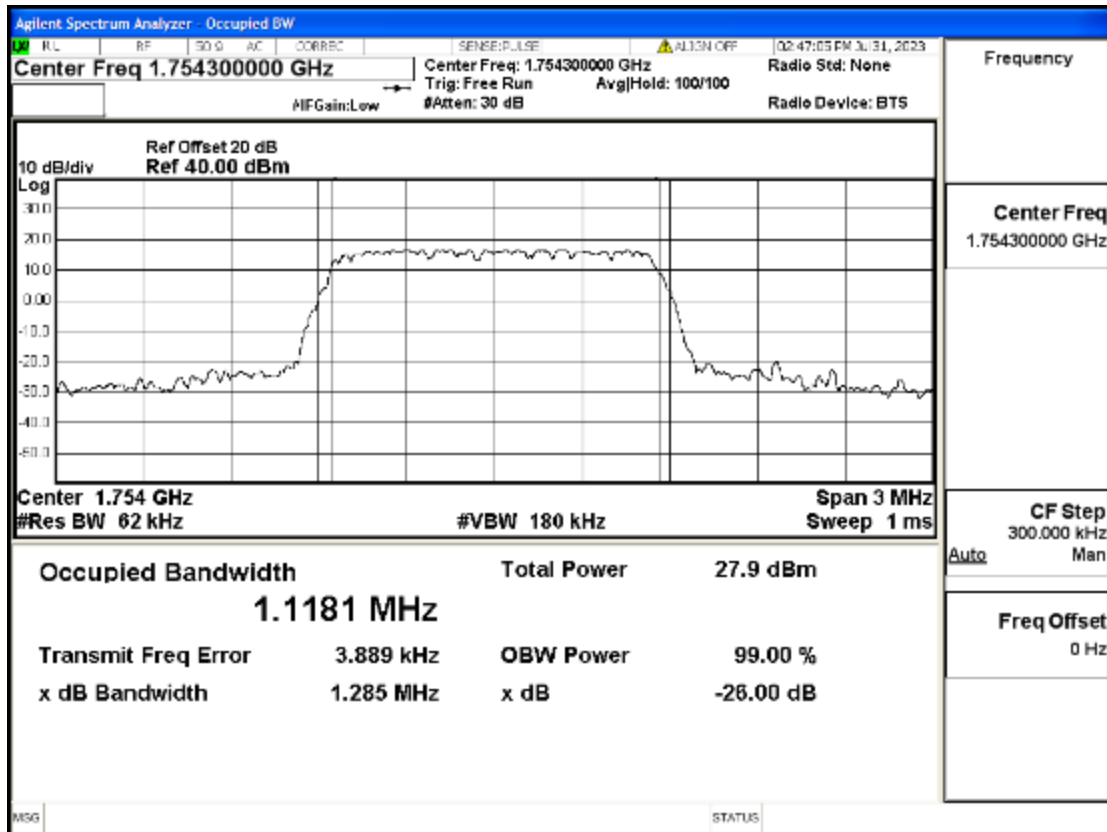
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



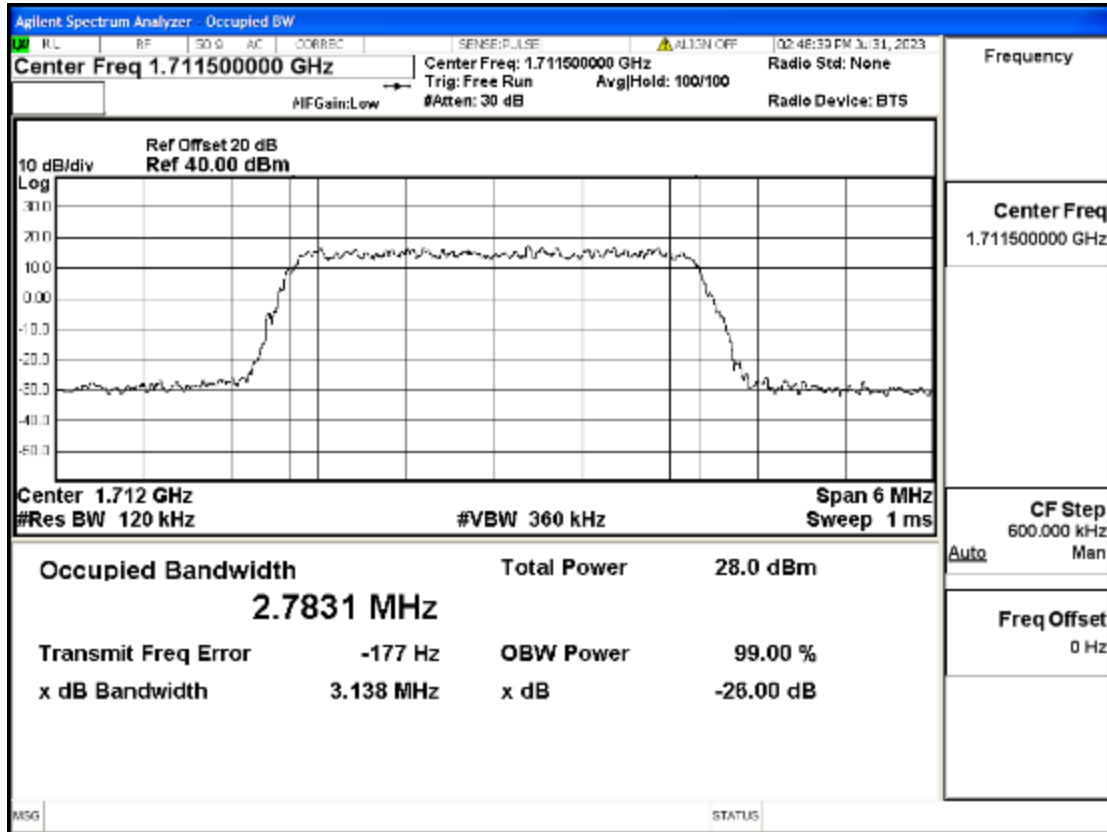
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



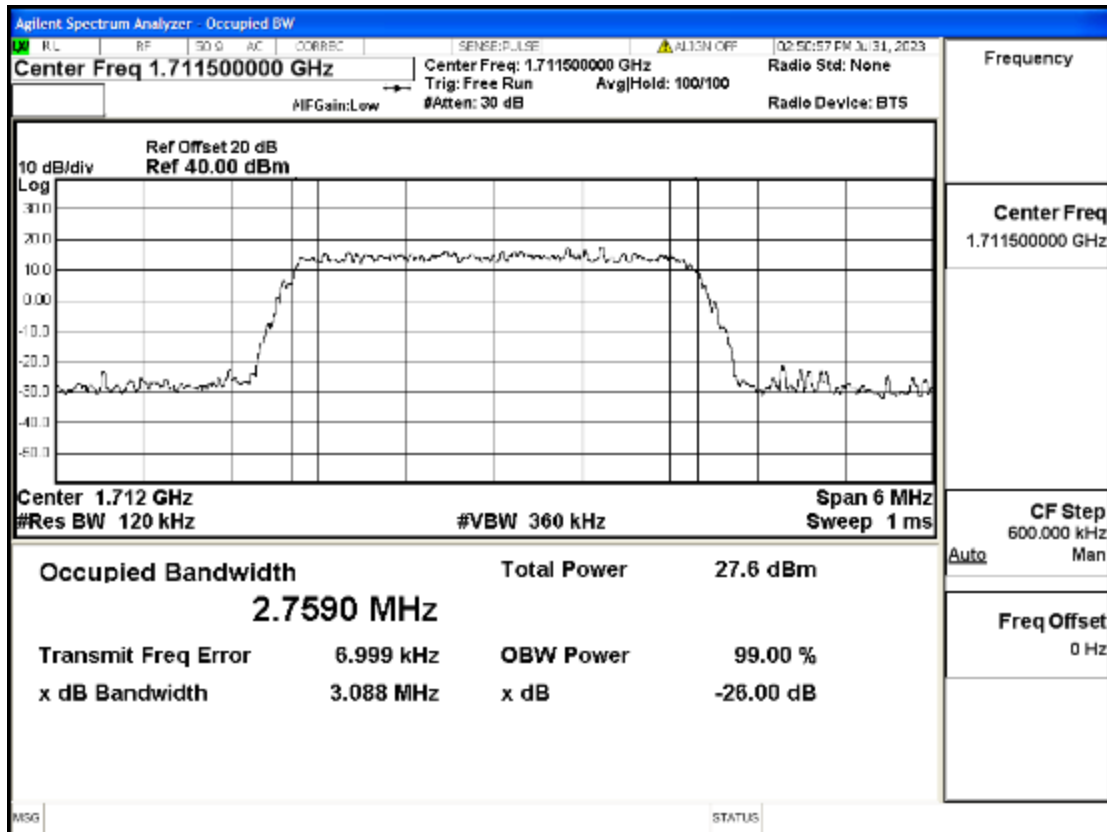
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth

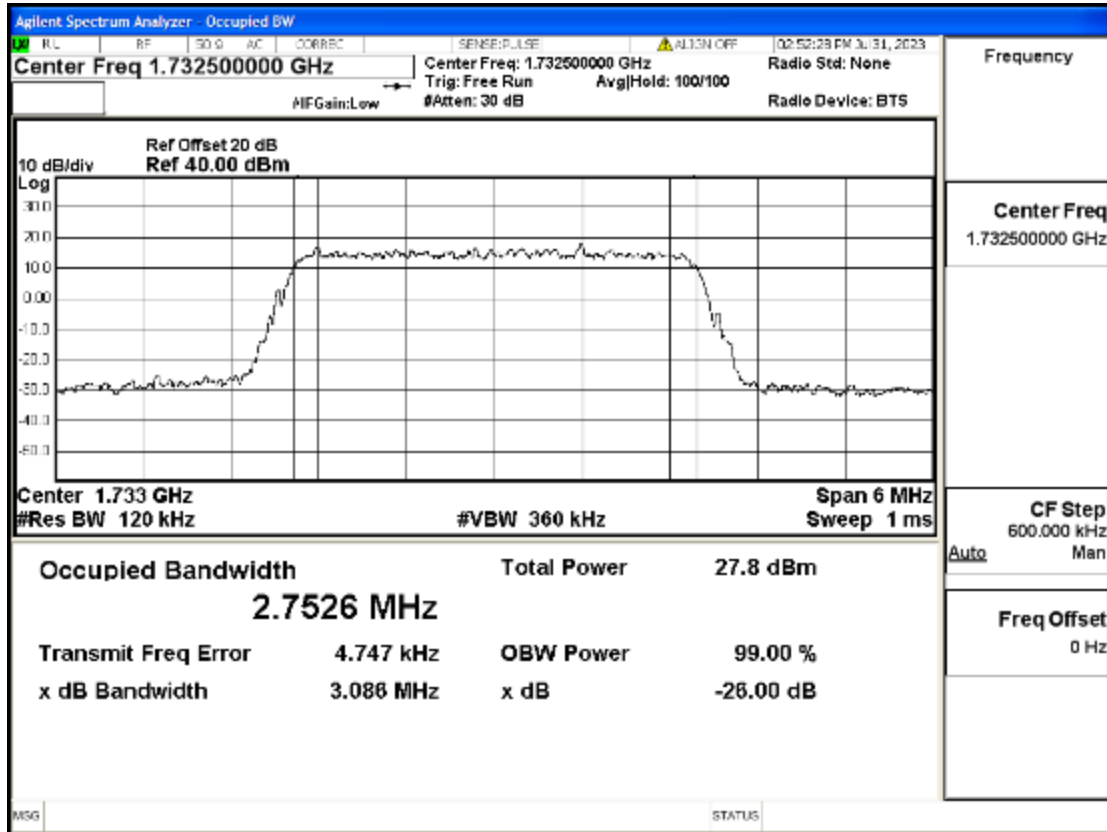


Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth

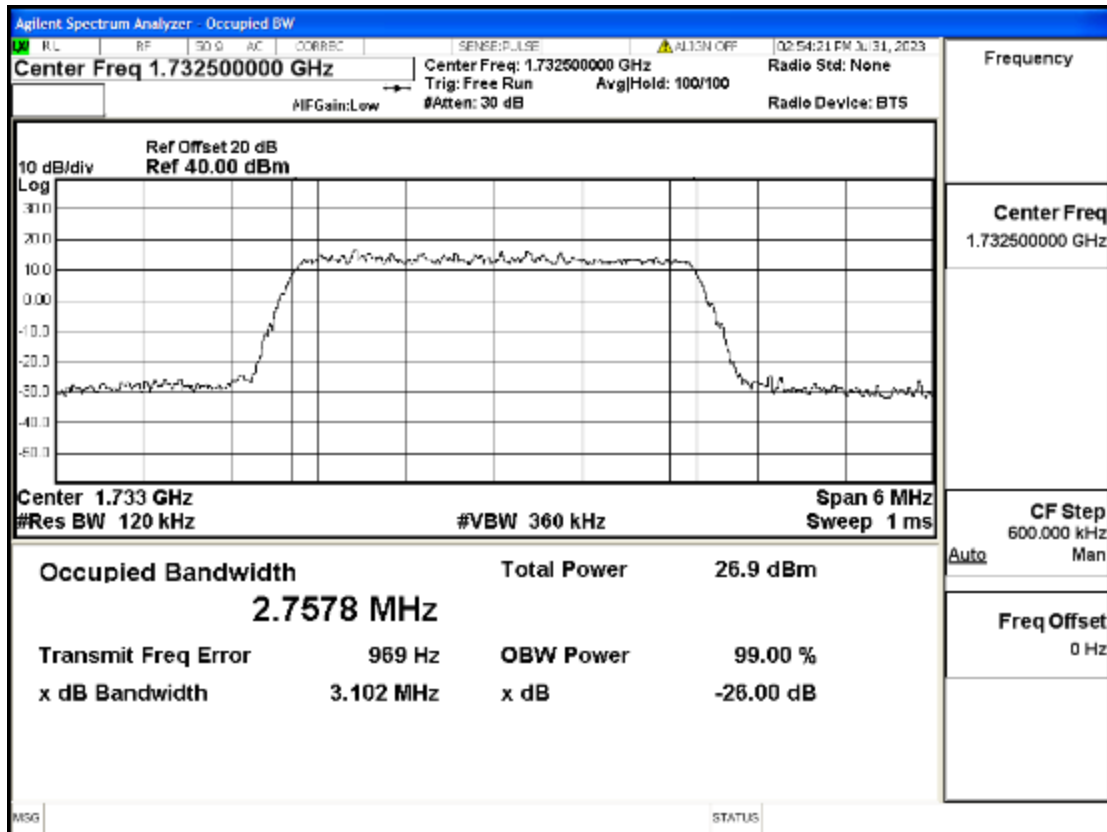




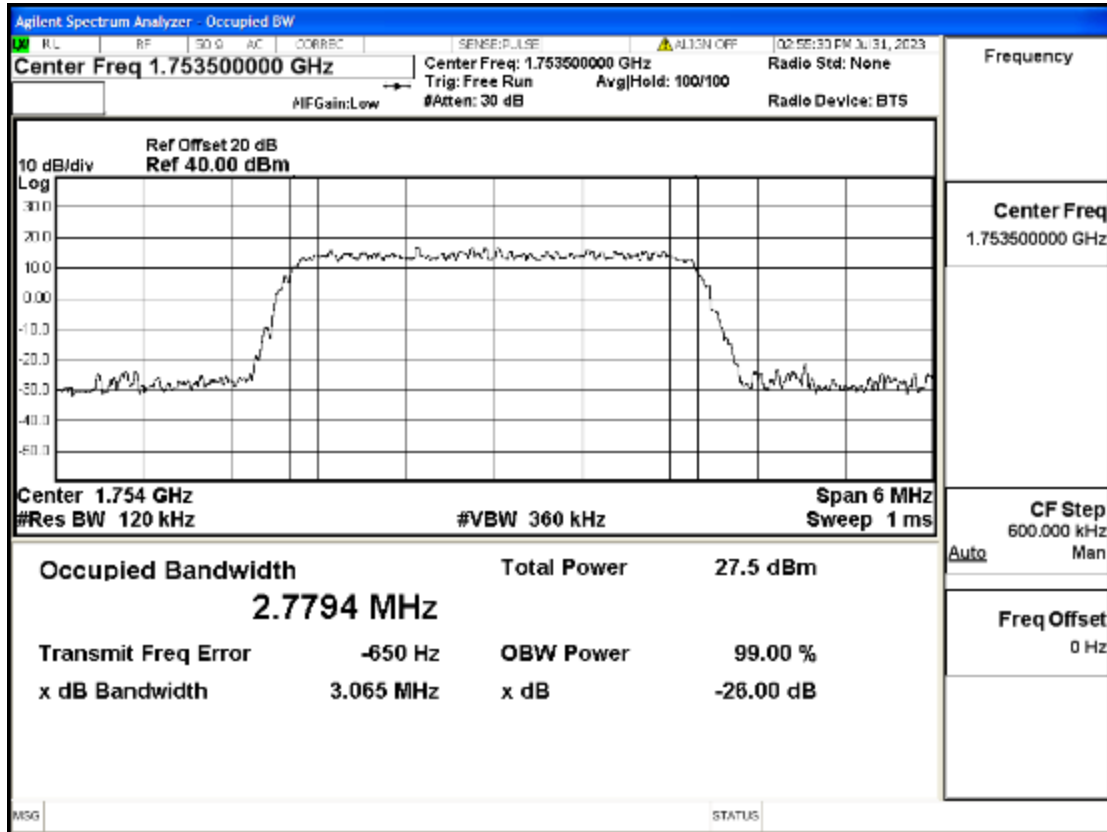
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



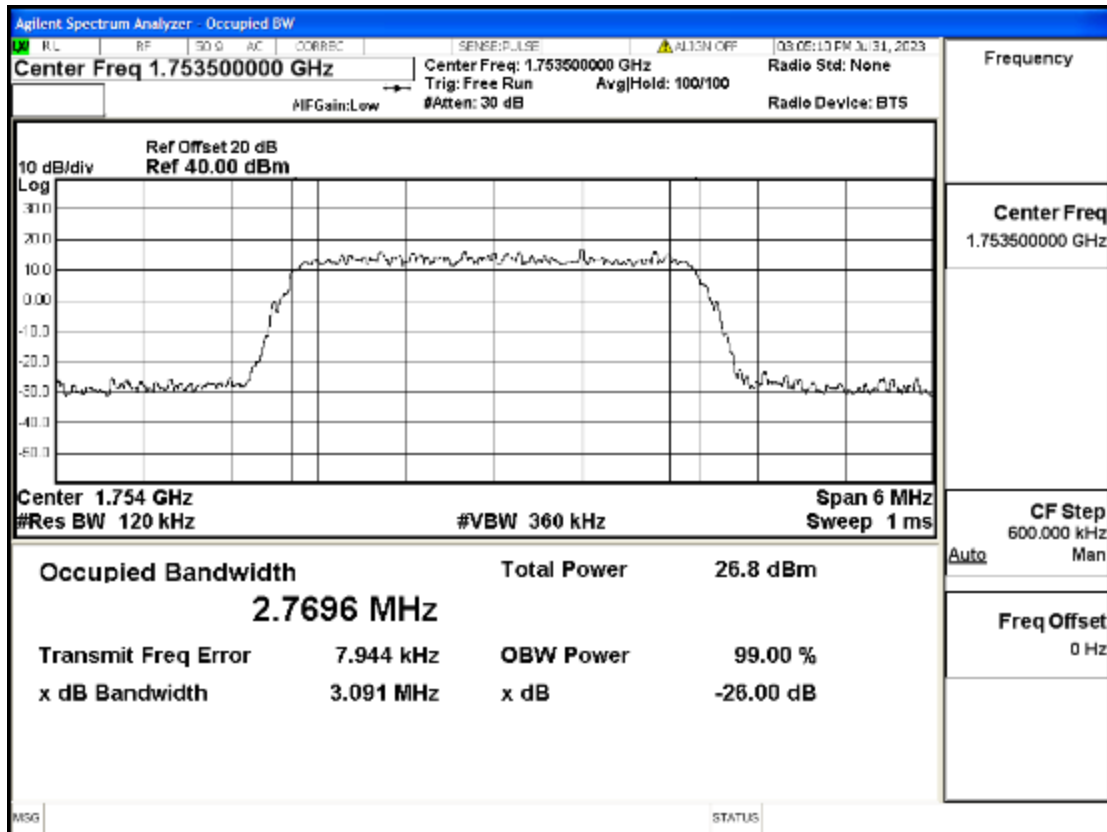
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



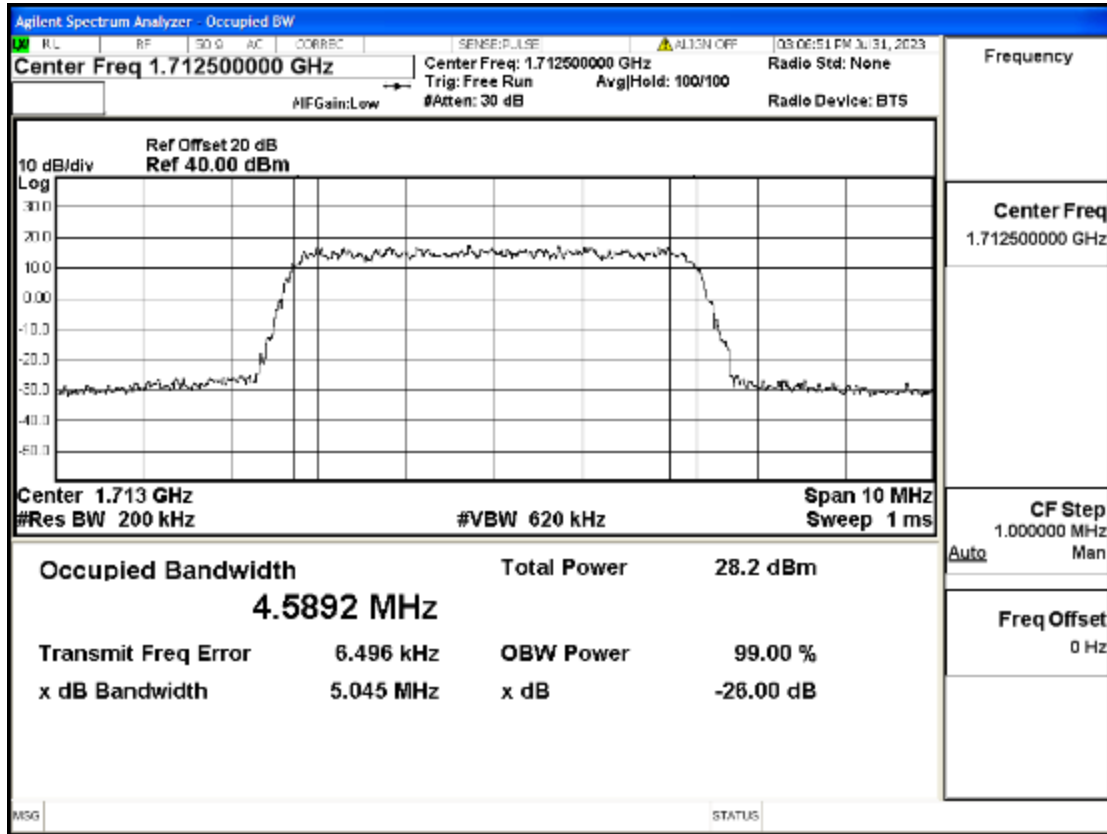
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



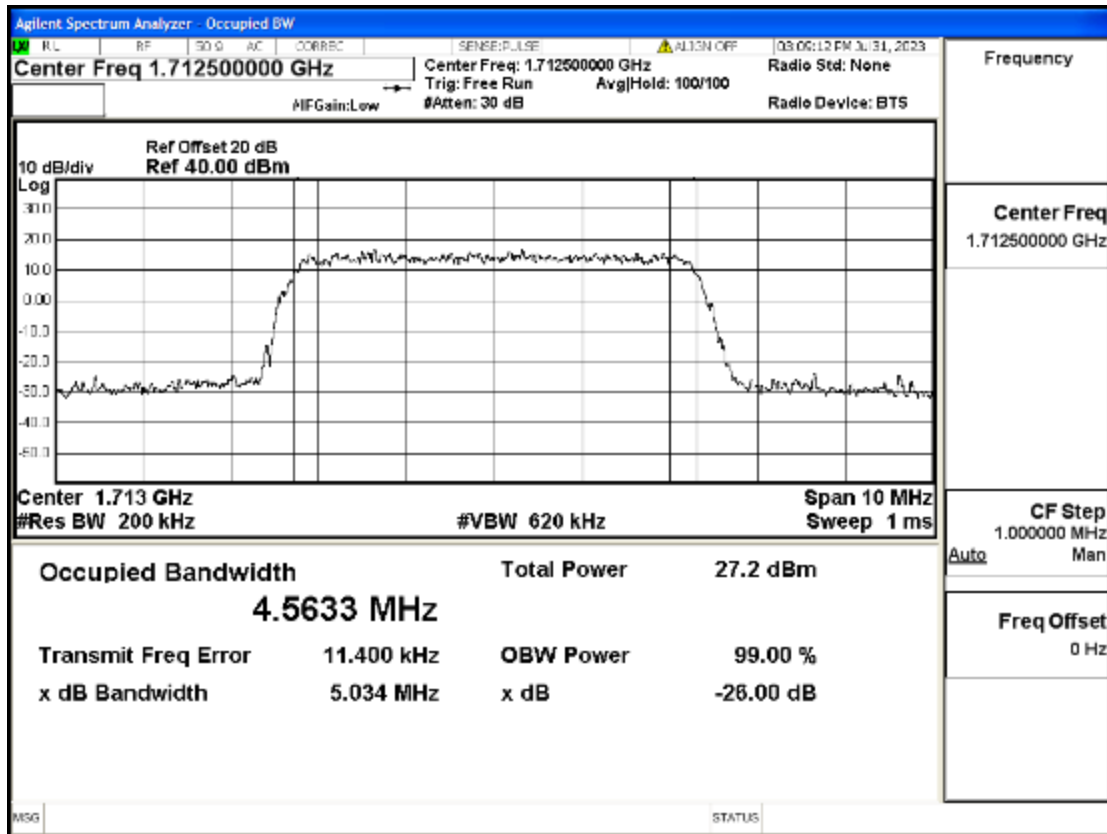
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



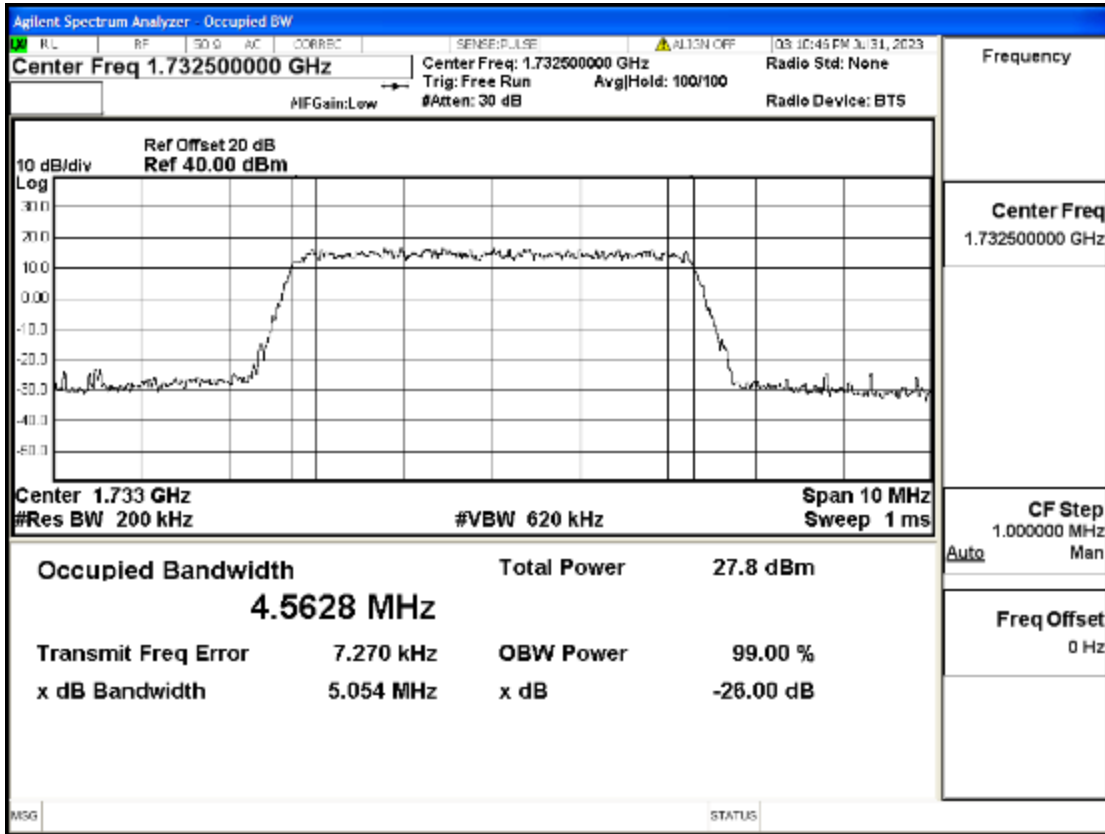
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



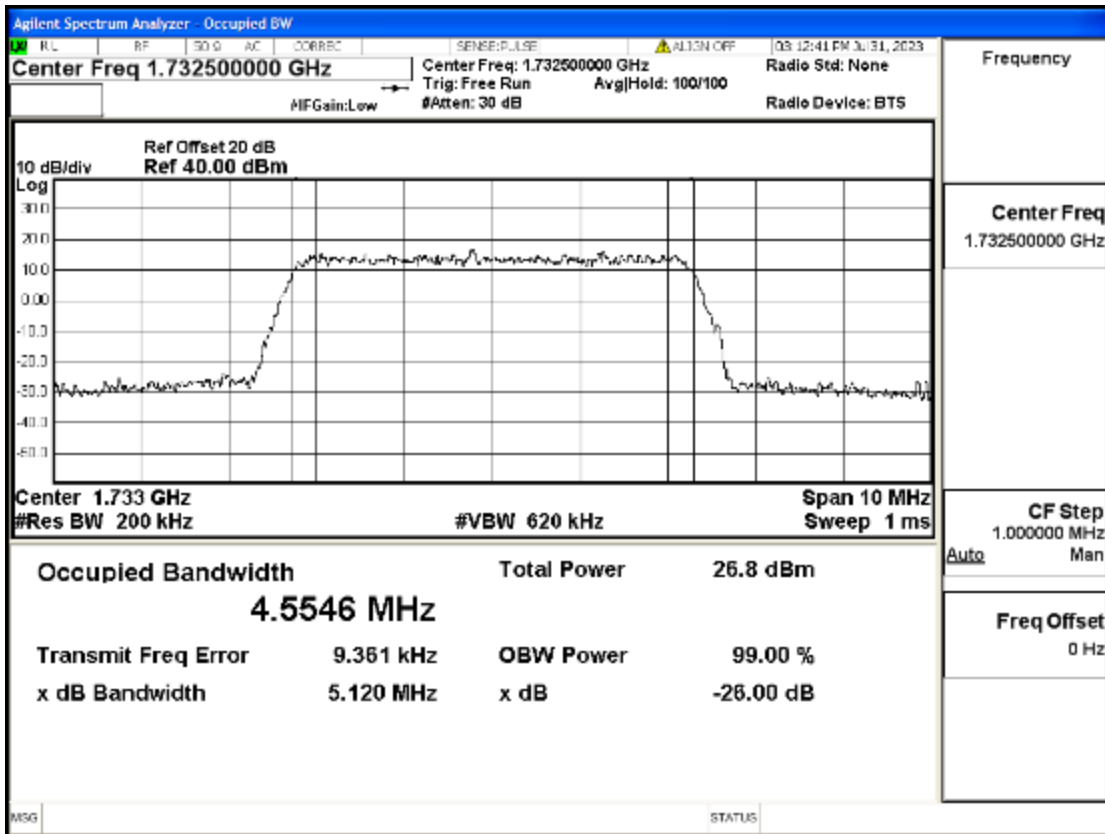
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



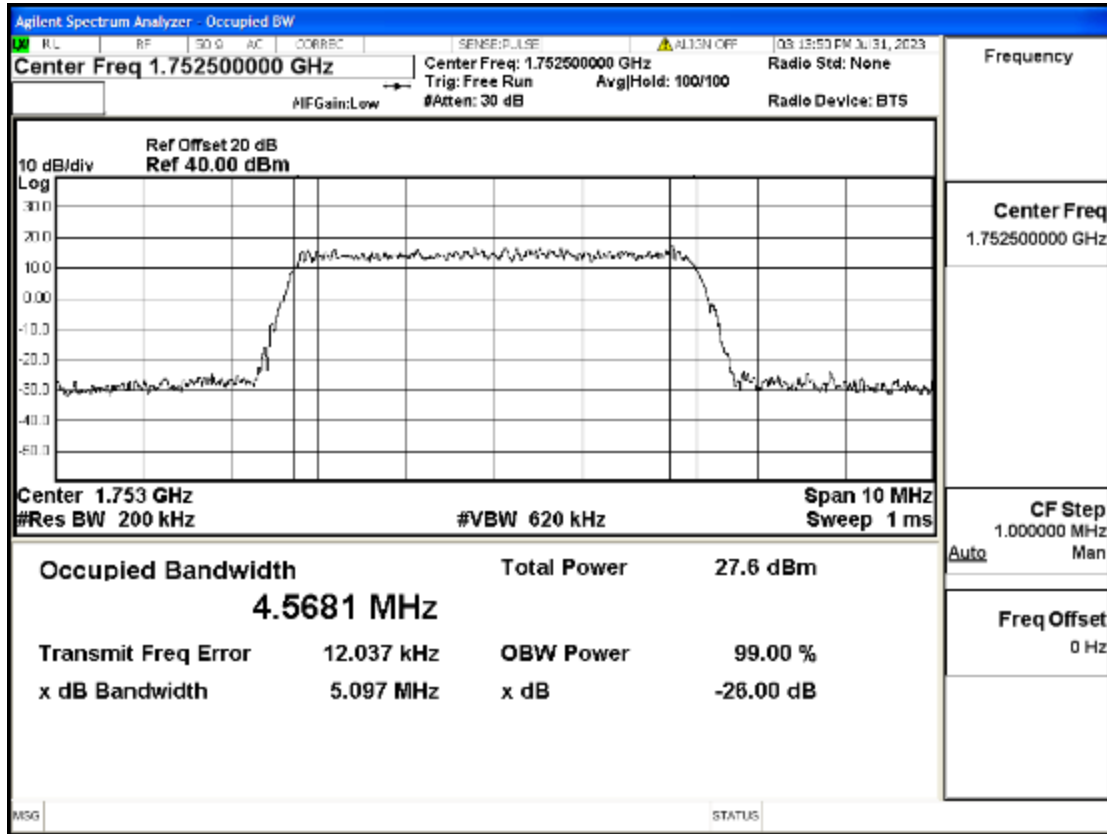
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



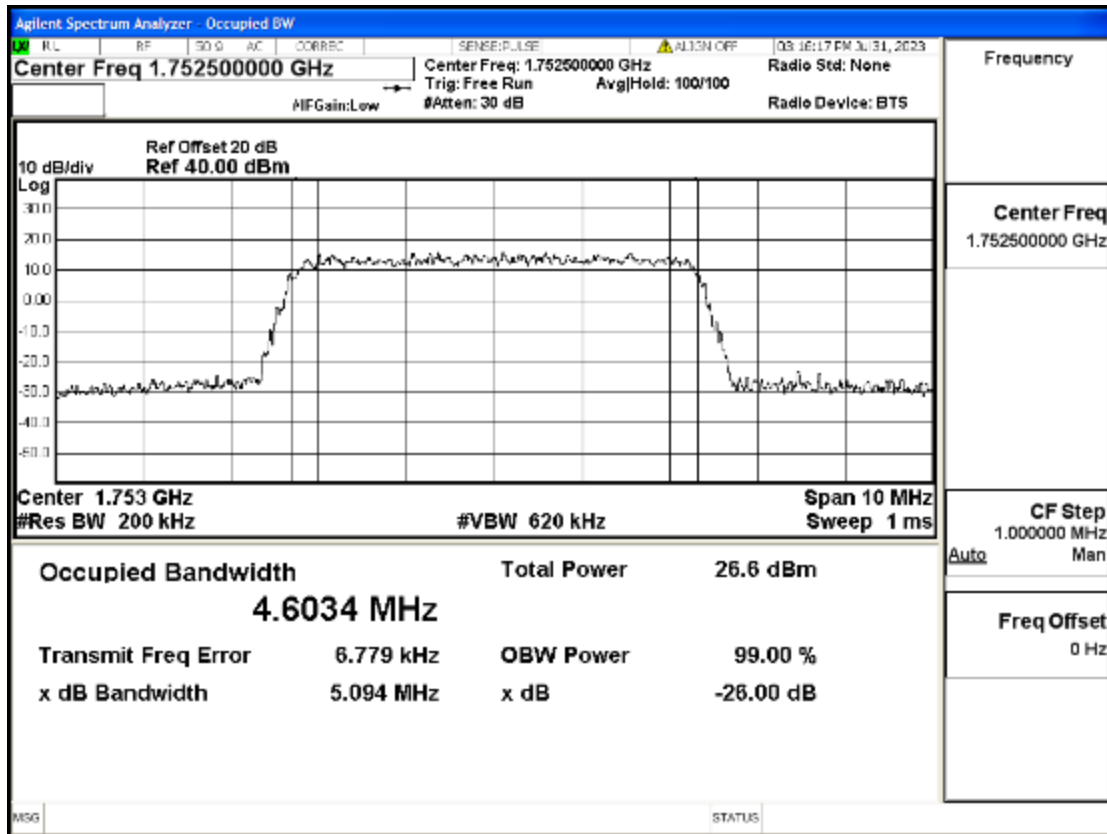
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



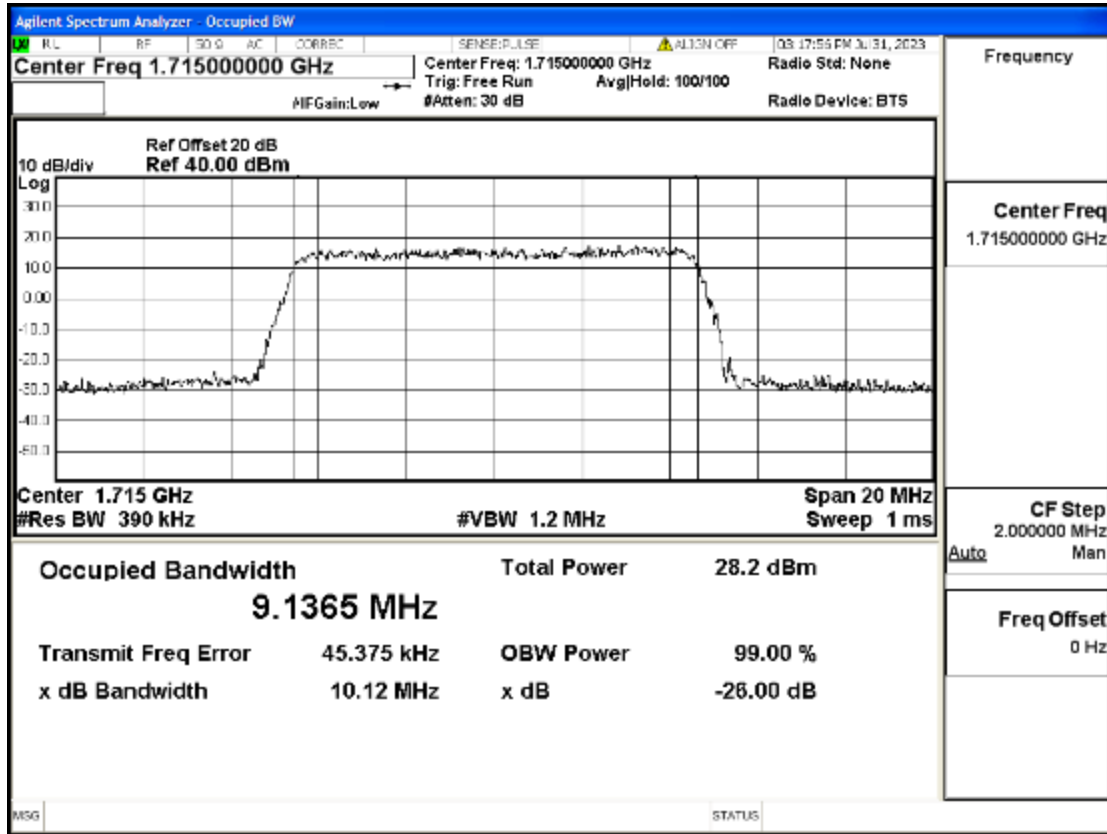
Band4-5-1752.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



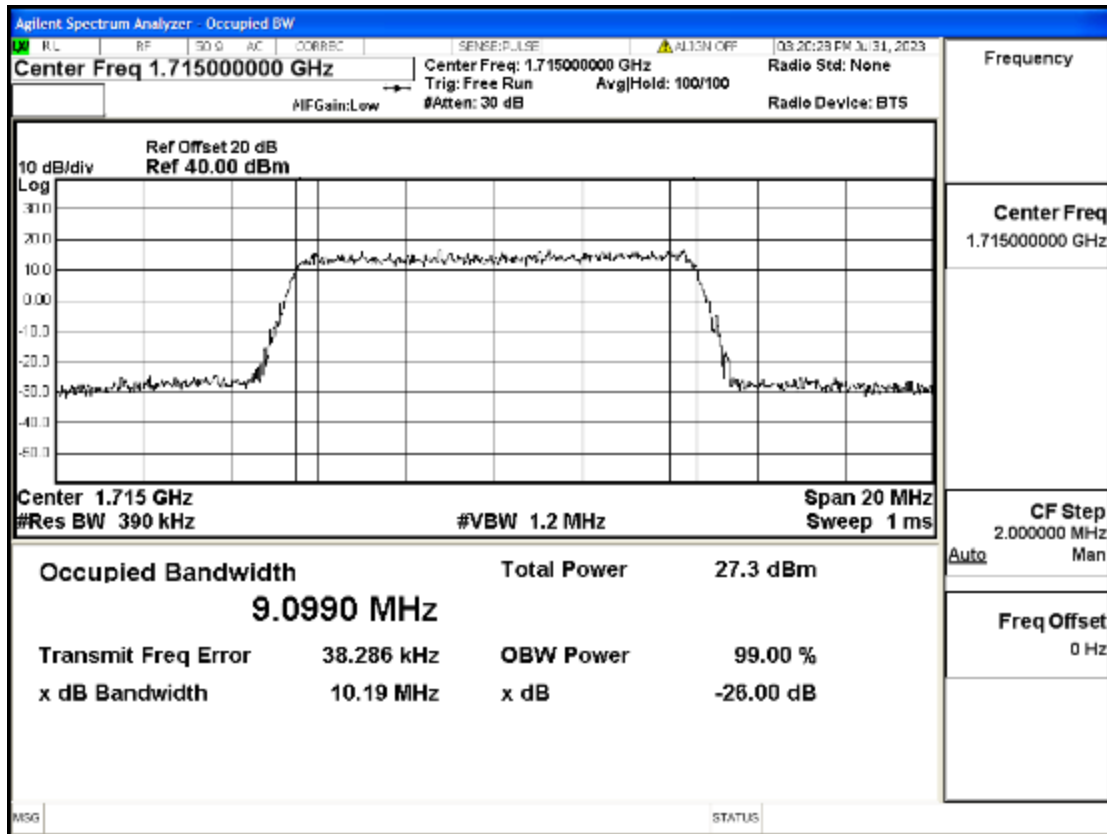
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



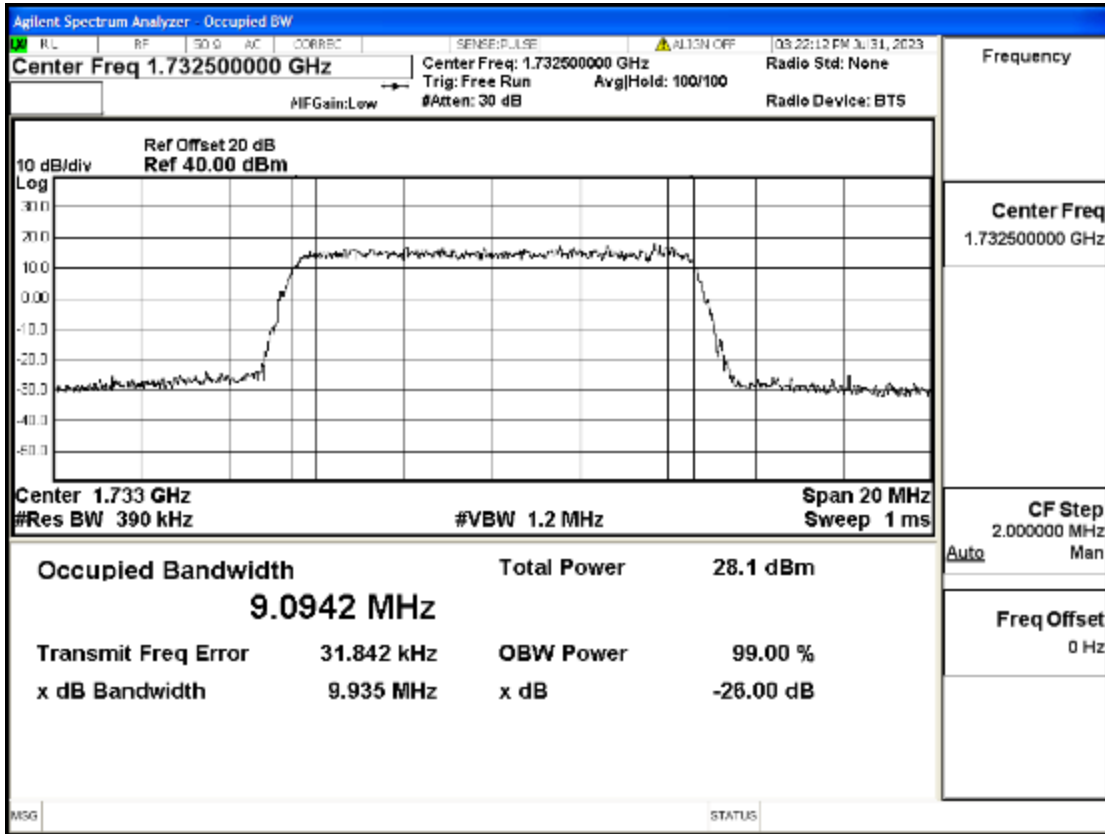
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



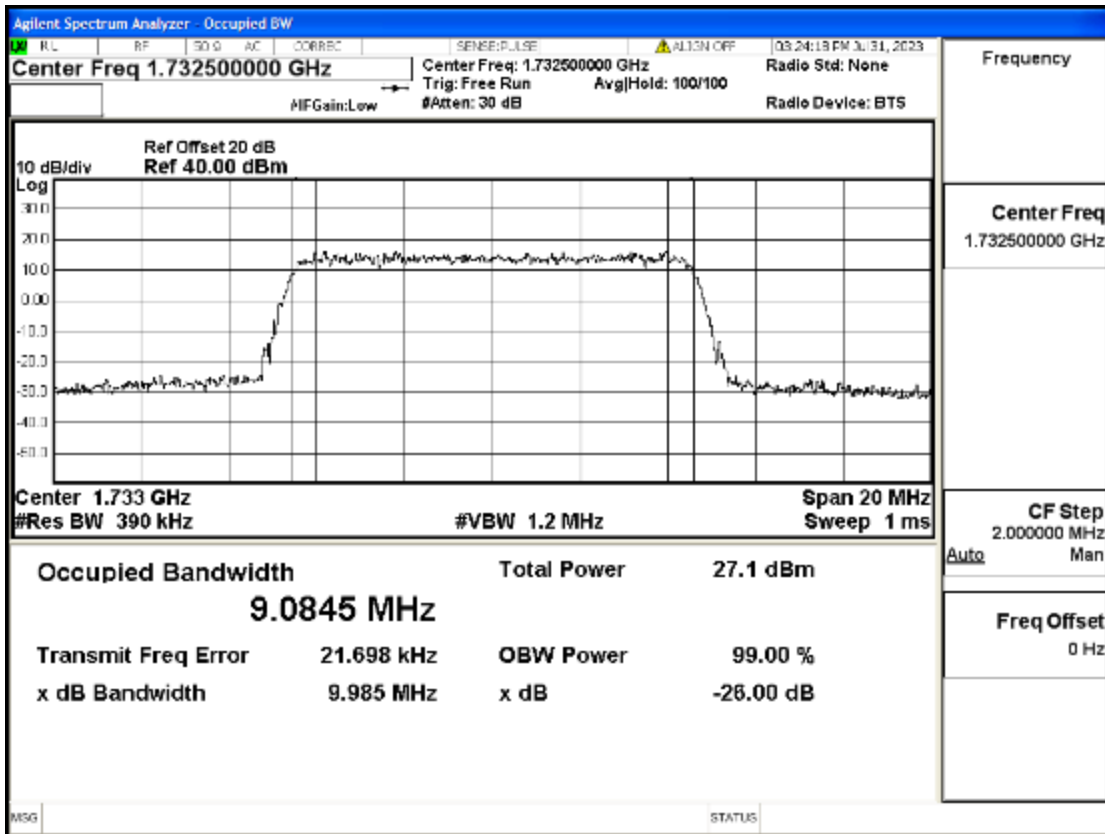
Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth



Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



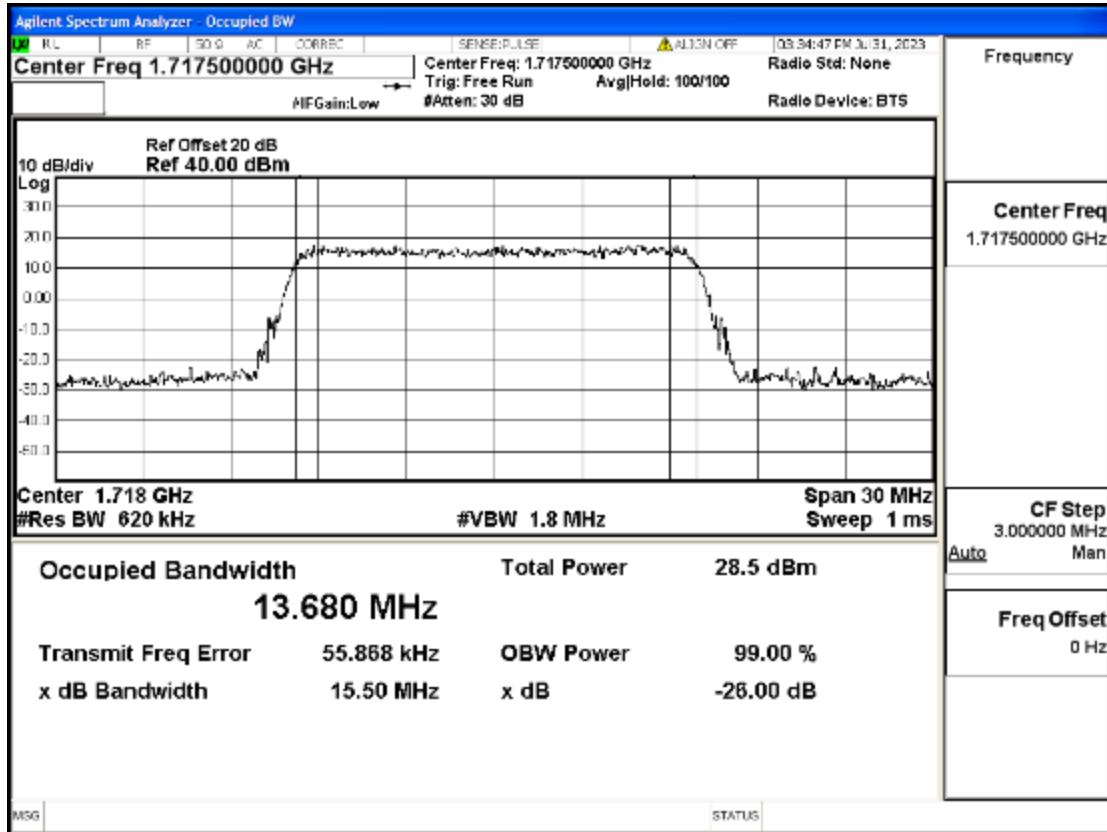
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



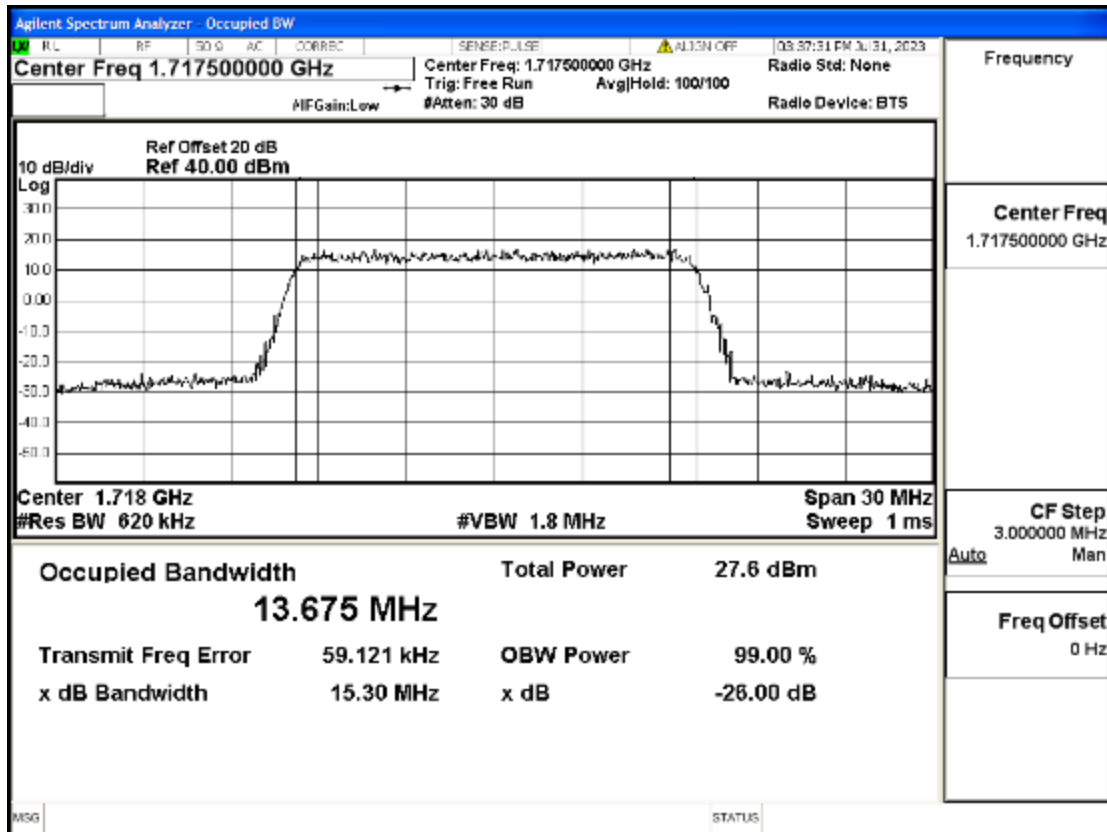




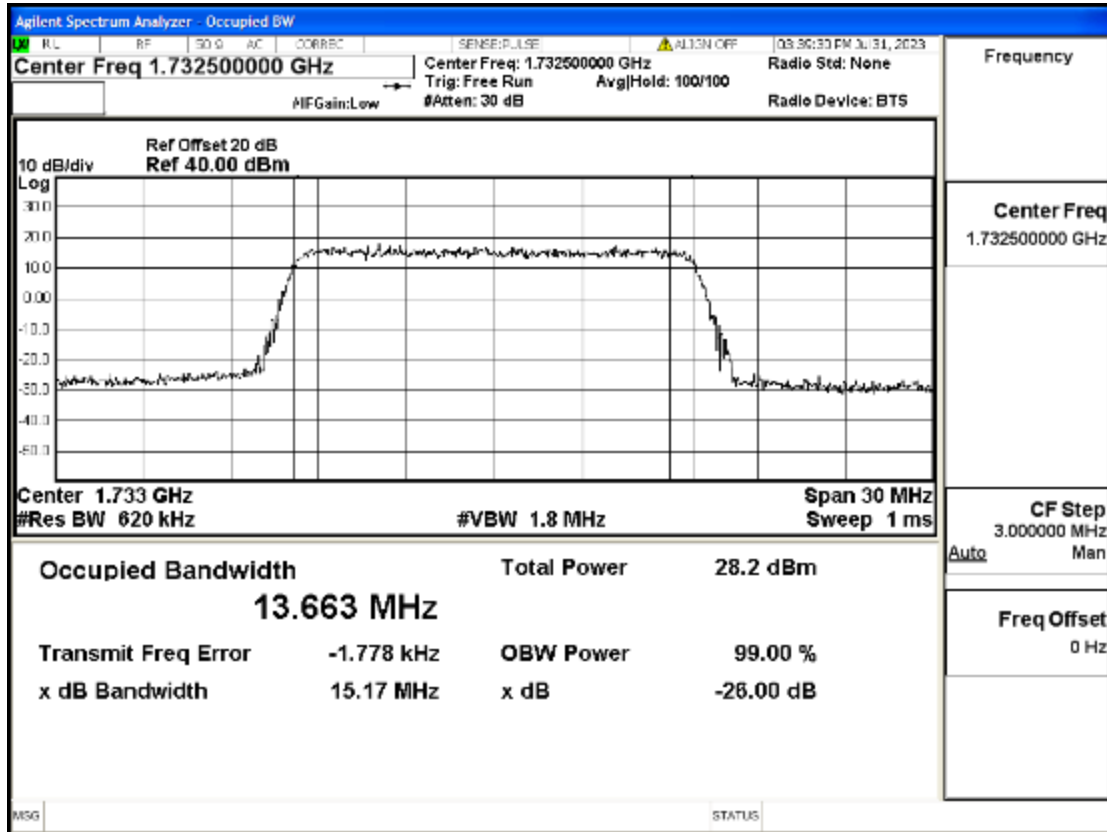
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



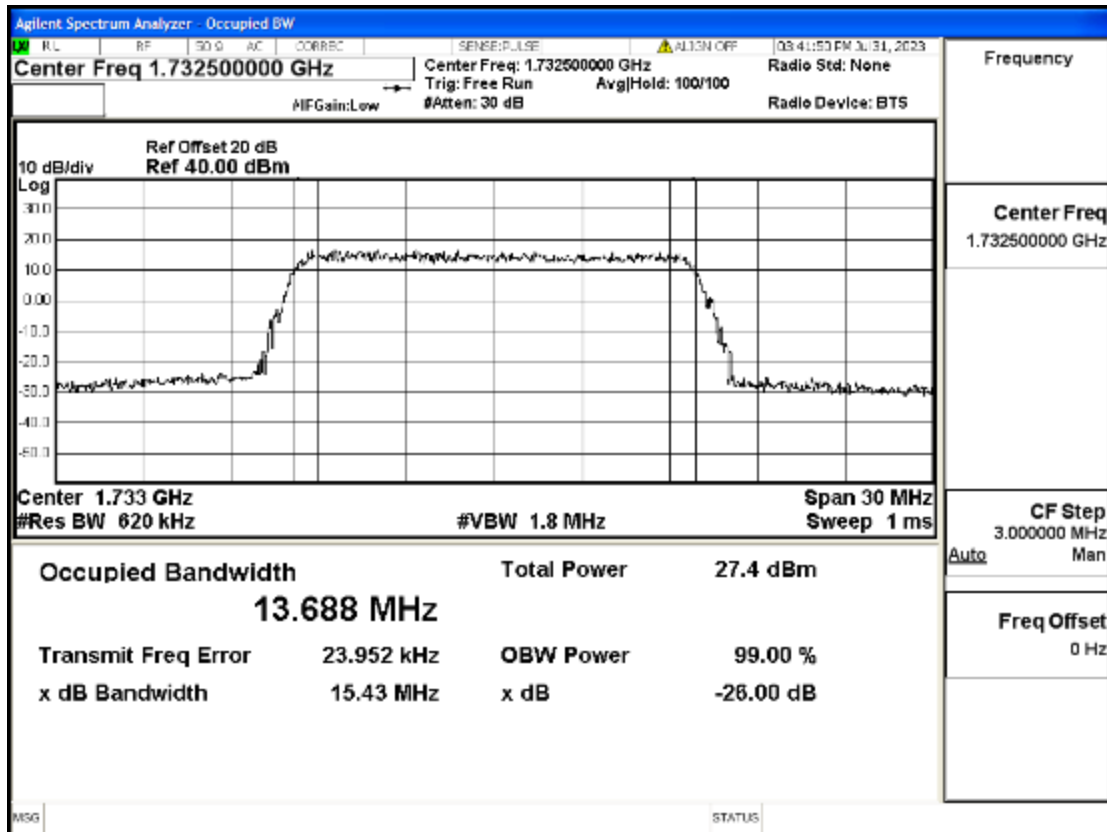
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



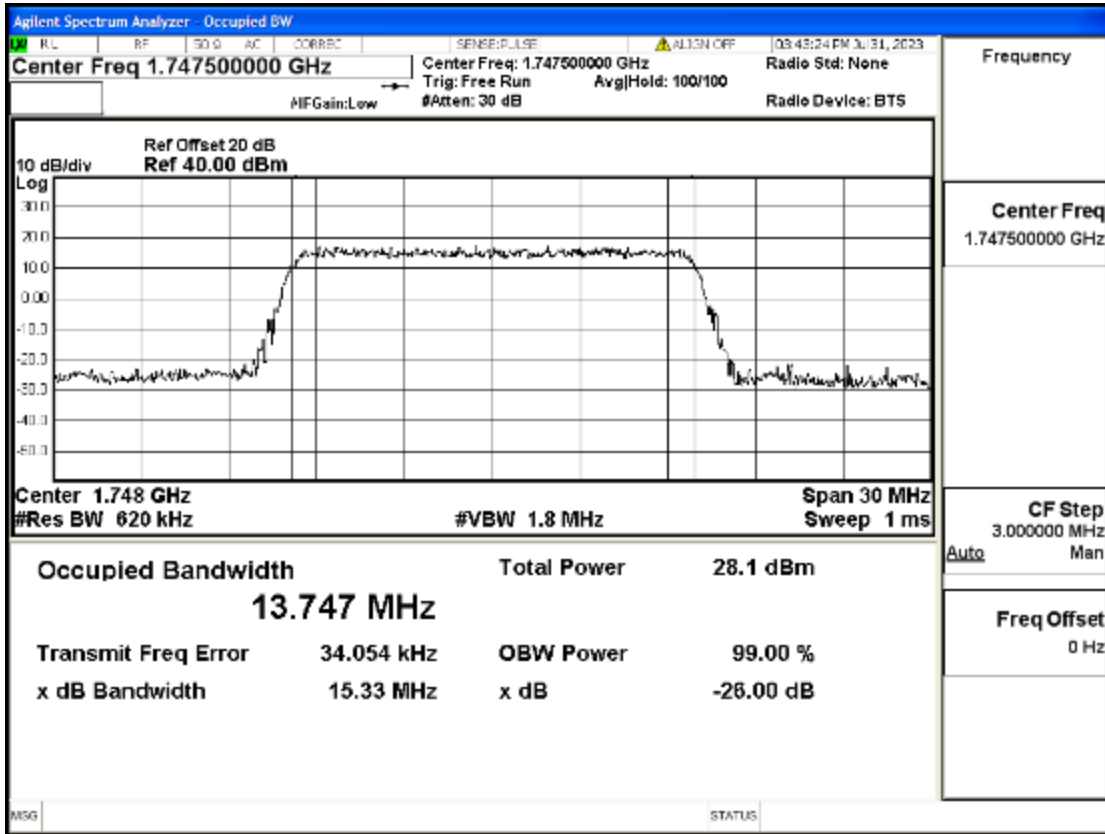
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



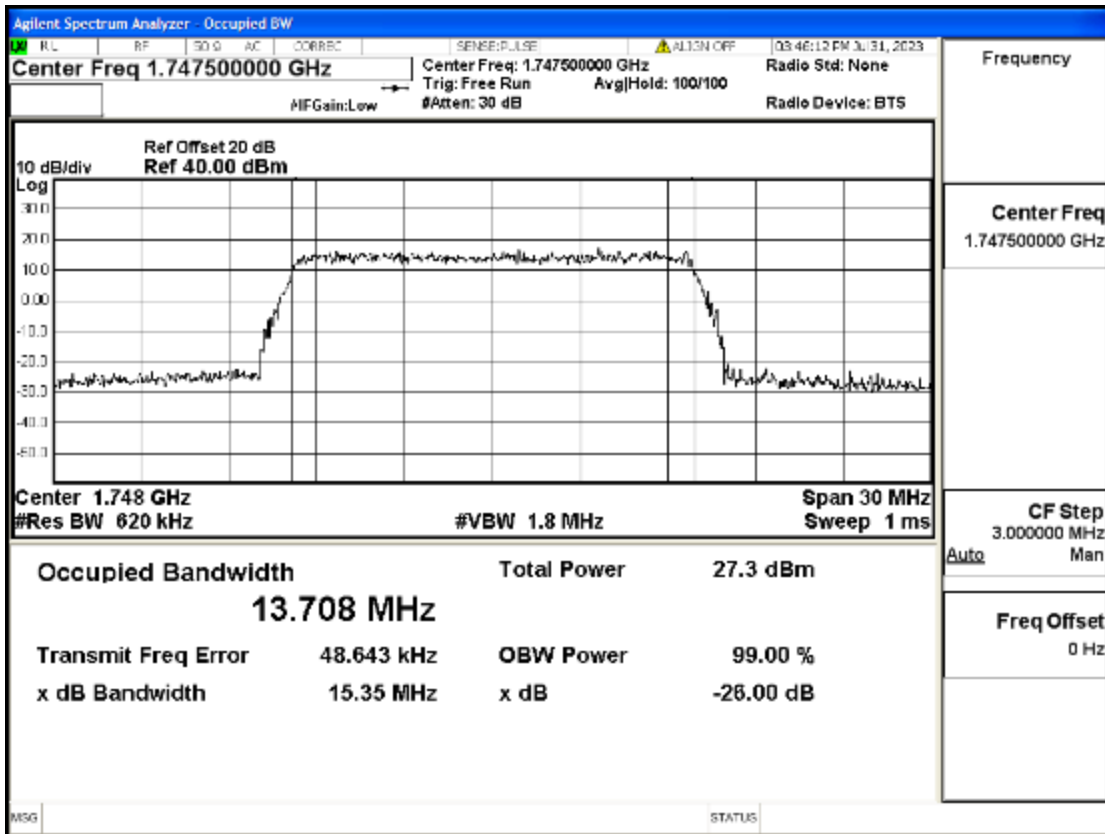
Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



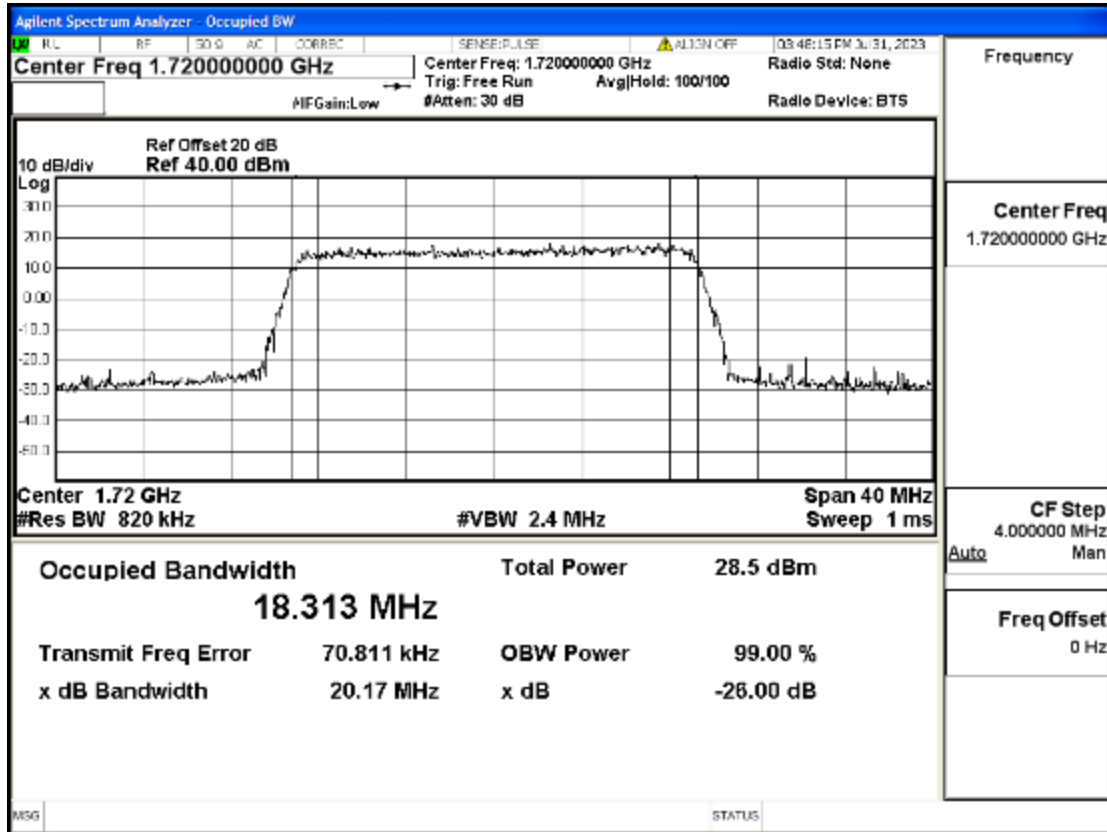
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



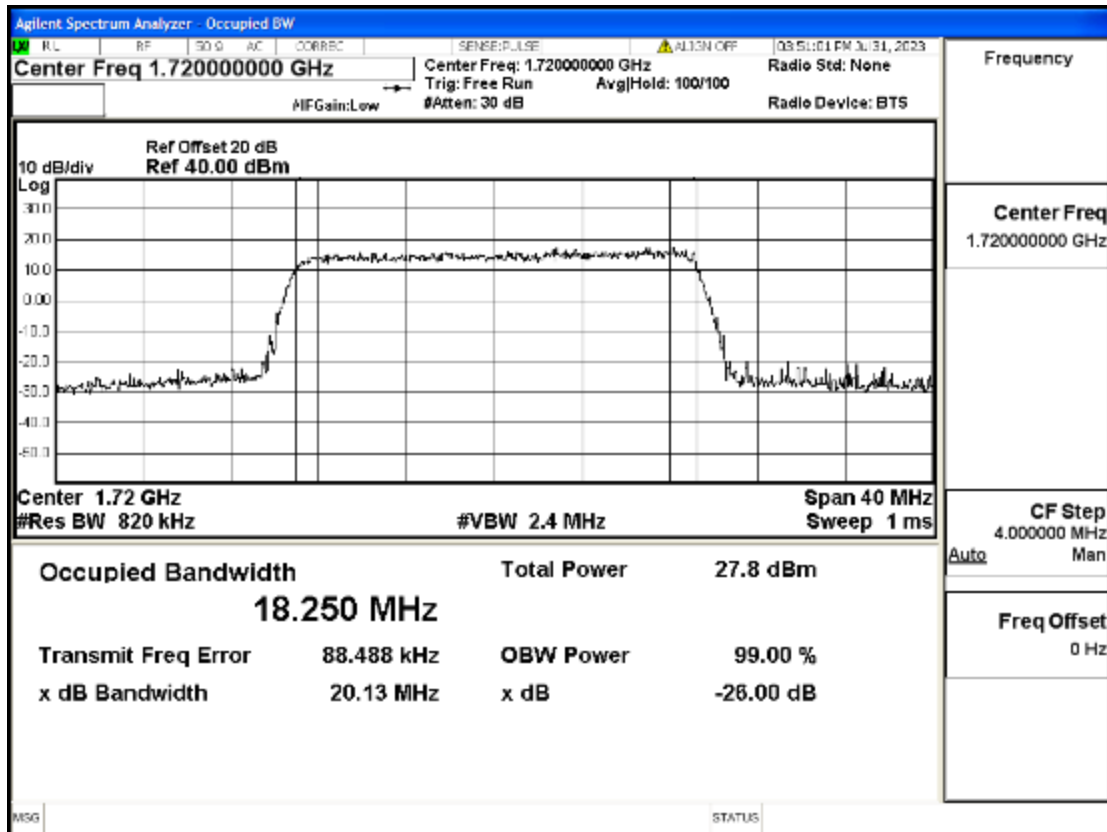
Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



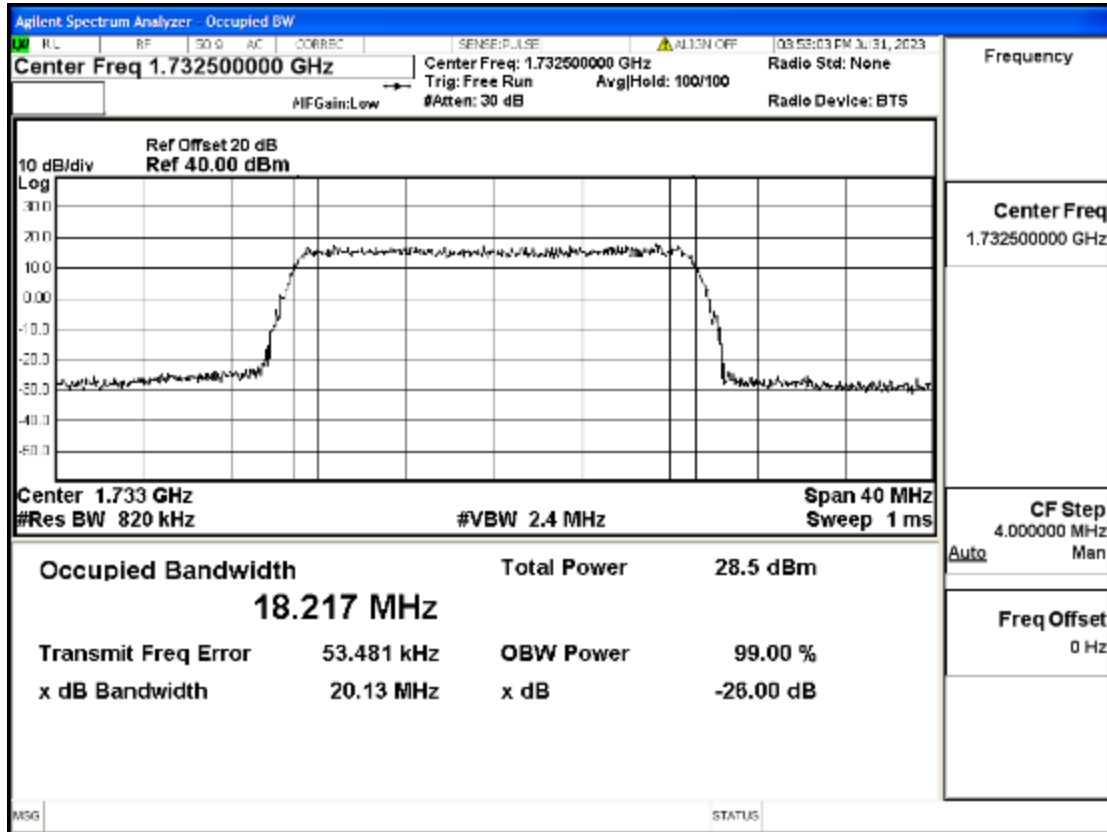
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



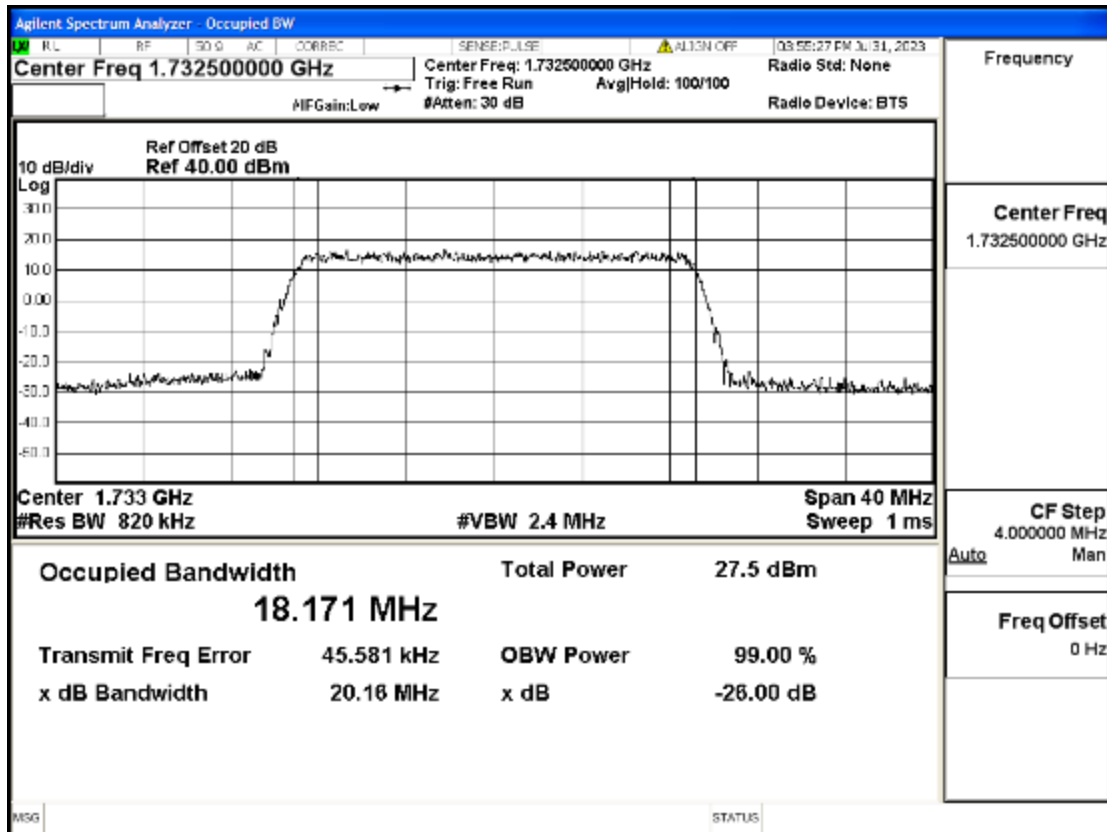
Band4-20-1720-16QAM-100#LOW@26dB and 99PCT Bandwidth



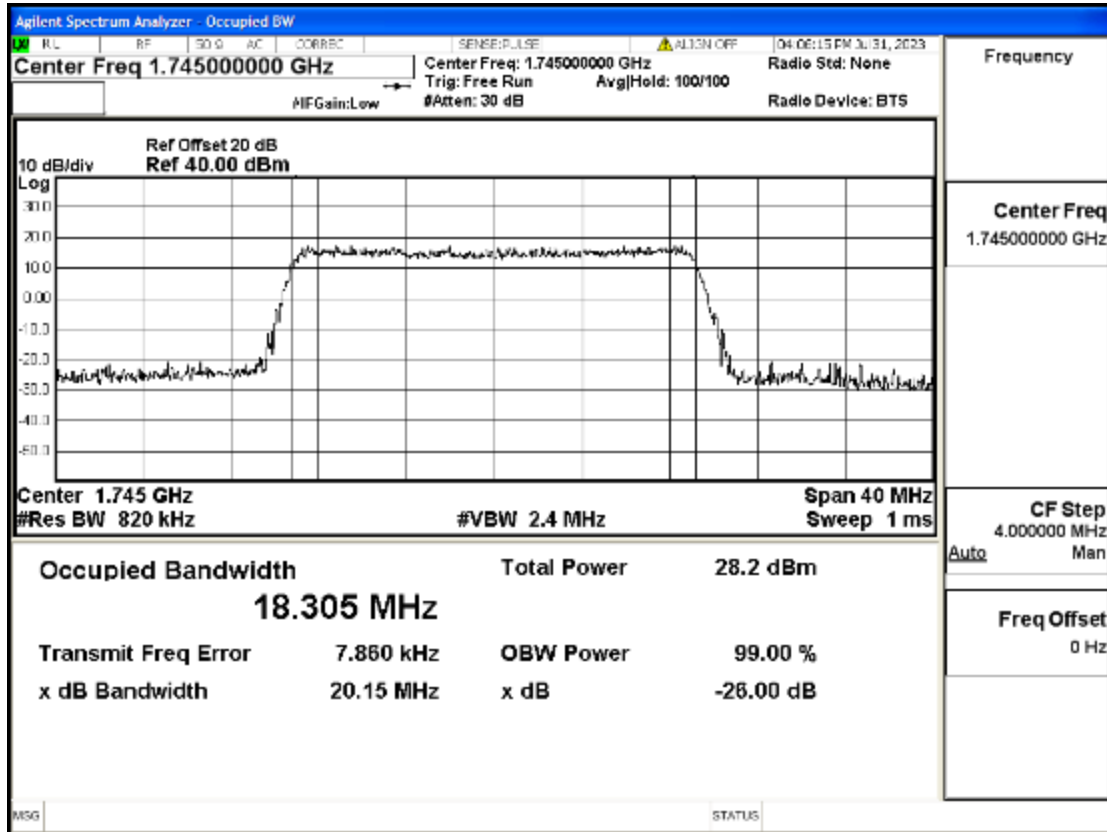
Band4-20-1732.5-QPSK-100#LOW@26dB and 99PCT Bandwidth



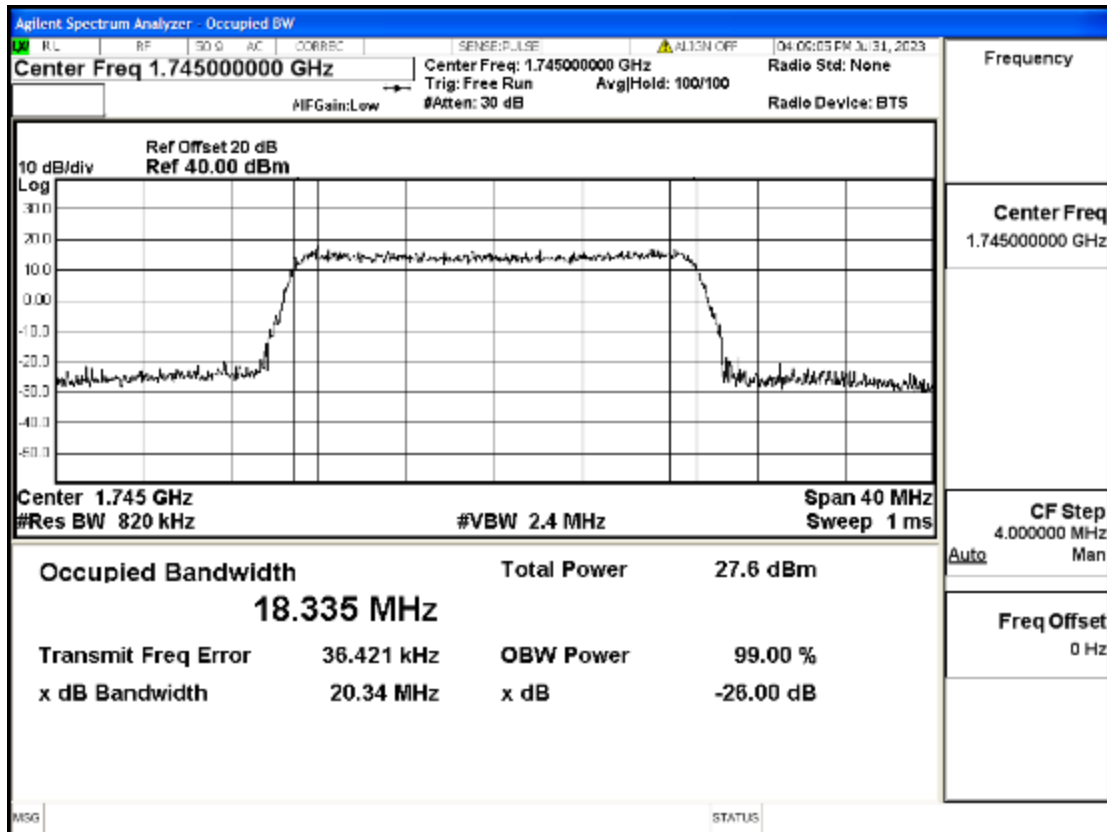
Band4-20-1732.5-16QAM-100#LOW@26dB and 99PCT Bandwidth



Band4-20-1745-QPSK-100#LOW@26dB and 99PCT Bandwidth



Band4-20-1745-16QAM-100#LOW@26dB and 99PCT Bandwidth



## Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0631	PASS
40	Normal Voltage	0.0379	
30	Normal Voltage	0.0195	
20(Ref.)	Normal Voltage	0.0290	
10	Normal Voltage	0.0578	
0	Normal Voltage	0.0191	
-10	Normal Voltage	0.0493	
-20	Normal Voltage	0.0395	
-30	Normal Voltage	0.0196	
20	Maximum Voltage	0.0197	
20	Normal Voltage	0.0293	
20	Battery End Point	0.0611	

## 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
Band4	1.4	1710.7	QPSK	6	LOW	22.45	28.36	5.91	13	0.86	23.31	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	23.17	28.82	5.65	13	0.86	24.03	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	23.14	28.83	5.69	13	0.86	24	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	23.17	28.77	5.6	13	0.86	24.03	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	23.1	28.07	4.97	13	0.86	23.96	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	23.01	28.05	5.04	13	0.86	23.87	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	23.01	28.07	5.06	13	0.86	23.87	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	22.01	28.66	6.65	13	0.86	22.87	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	22.23	28.67	6.44	13	0.86	23.09	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	22.35	28.66	6.31	13	0.86	23.21	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	22.26	28.74	6.48	13	0.86	23.12	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	22.06	27.3	5.24	13	0.86	22.92	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	22.09	27.32	5.23	13	0.86	22.95	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	22.12	27.38	5.26	13	0.86	22.98	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	21.97	28.56	6.59	13	0.86	22.83	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	22.94	28.82	5.88	13	0.86	23.8	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	22.91	28.73	5.82	13	0.86	23.77	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	22.87	28.77	5.9	13	0.86	23.73	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	22.91	28.35	5.44	13	0.86	23.77	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	22.84	28.33	5.49	13	0.86	23.7	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	22.79	28.31	5.52	13	0.86	23.65	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	21.16	28.68	7.52	13	0.86	22.02	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	22.01	28.13	6.12	13	0.86	22.87	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	22.2	28.25	6.05	13	0.86	23.06	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	22.19	28.24	6.05	13	0.86	23.05	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	22.89	28.33	5.44	13	0.86	23.75	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	22.76	28.31	5.55	13	0.86	23.62	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	22.84	28.35	5.51	13	0.86	23.7	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	21.44	27.25	5.81	13	0.86	22.3	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	22.52	27.78	5.26	13	0.86	23.38	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	22.51	27.73	5.22	13	0.86	23.37	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	22.57	27.74	5.17	13	0.86	23.43	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	22.56	27.47	4.91	13	0.86	23.42	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	22.54	27.33	4.79	13	0.86	23.4	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	22.56	27.39	4.83	13	0.86	23.42	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	20.98	27.64	6.66	13	0.86	21.84	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	21.48	27.65	6.17	13	0.86	22.34	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	21.35	27.62	6.27	13	0.86	22.21	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	21.43	27.78	6.35	13	0.86	22.29	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	21.71	26.61	4.9	13	0.86	22.57	30	Pass



Band4	1.4	1754.3	16QAM	1	MID	21.77	26.59	4.82	13	0.86	22.63	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	21.82	26.62	4.8	13	0.86	22.68	30	Pass
Band4	3	1711.5	QPSK	15	LOW	22.04	28.09	6.05	13	0.86	22.9	30	Pass
Band4	3	1711.5	QPSK	8	LOW	22.15	28.15	6	13	0.86	23.01	30	Pass
Band4	3	1711.5	QPSK	8	MID	22.14	28.23	6.09	13	0.86	23	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	22.1	28.2	6.1	13	0.86	22.96	30	Pass
Band4	3	1711.5	QPSK	1	LOW	23.03	27.91	4.88	13	0.86	23.89	30	Pass
Band4	3	1711.5	QPSK	1	MID	23	27.88	4.88	13	0.86	23.86	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	22.96	27.84	4.88	13	0.86	23.82	30	Pass
Band4	3	1711.5	16QAM	15	LOW	21.66	28.62	6.96	13	0.86	22.52	30	Pass
Band4	3	1711.5	16QAM	8	LOW	21.87	28.69	6.82	13	0.86	22.73	30	Pass
Band4	3	1711.5	16QAM	8	MID	21.87	28.65	6.78	13	0.86	22.73	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	21.39	28.31	6.92	13	0.86	22.25	30	Pass
Band4	3	1711.5	16QAM	1	LOW	22.39	28.52	6.13	13	0.86	23.25	30	Pass
Band4	3	1711.5	16QAM	1	MID	22.43	28.51	6.08	13	0.86	23.29	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	22.38	28.49	6.11	13	0.86	23.24	30	Pass
Band4	3	1732.5	QPSK	15	LOW	21.92	27.62	5.7	13	0.86	22.78	30	Pass
Band4	3	1732.5	QPSK	8	LOW	21.92	28.1	6.18	13	0.86	22.78	30	Pass
Band4	3	1732.5	QPSK	8	MID	21.92	27.95	6.03	13	0.86	22.78	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	21.86	28.14	6.28	13	0.86	22.72	30	Pass
Band4	3	1732.5	QPSK	1	LOW	22.97	28.19	5.22	13	0.86	23.83	30	Pass
Band4	3	1732.5	QPSK	1	MID	22.89	28.15	5.26	13	0.86	23.75	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	22.93	28.15	5.22	13	0.86	23.79	30	Pass
Band4	3	1732.5	16QAM	15	LOW	20.92	28.36	7.44	13	0.86	21.78	30	Pass
Band4	3	1732.5	16QAM	8	LOW	20.99	27.39	6.4	13	0.86	21.85	30	Pass
Band4	3	1732.5	16QAM	8	MID	21	27.71	6.71	13	0.86	21.86	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	21.09	27.78	6.69	13	0.86	21.95	30	Pass
Band4	3	1732.5	16QAM	1	LOW	22.69	28.15	5.46	13	0.86	23.55	30	Pass
Band4	3	1732.5	16QAM	1	MID	22.64	27.97	5.33	13	0.86	23.5	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	22.68	27.56	4.88	13	0.86	23.54	30	Pass
Band4	3	1753.5	QPSK	15	LOW	21.56	28.1	6.54	13	0.86	22.42	30	Pass
Band4	3	1753.5	QPSK	8	LOW	21.62	27.89	6.27	13	0.86	22.48	30	Pass
Band4	3	1753.5	QPSK	8	MID	21.62	27.84	6.22	13	0.86	22.48	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	21.57	27.55	5.98	13	0.86	22.43	30	Pass
Band4	3	1753.5	QPSK	1	LOW	22.73	27.52	4.79	13	0.86	23.59	30	Pass
Band4	3	1753.5	QPSK	1	MID	22.78	27.38	4.6	13	0.86	23.64	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	22.8	27.33	4.53	13	0.86	23.66	30	Pass
Band4	3	1753.5	16QAM	15	LOW	20.68	27.66	6.98	13	0.86	21.54	30	Pass
Band4	3	1753.5	16QAM	8	LOW	21	27.59	6.59	13	0.86	21.86	30	Pass
Band4	3	1753.5	16QAM	8	MID	20.99	27.36	6.37	13	0.86	21.85	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	21.15	27.34	6.19	13	0.86	22.01	30	Pass
Band4	3	1753.5	16QAM	1	LOW	21.74	26.9	5.16	13	0.86	22.6	30	Pass
Band4	3	1753.5	16QAM	1	MID	21.84	26.85	5.01	13	0.86	22.7	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	21.72	26.71	4.99	13	0.86	22.58	30	Pass
Band4	5	1712.5	QPSK	25	LOW	22.08	28.47	6.39	13	0.86	22.94	30	Pass
Band4	5	1712.5	QPSK	12	LOW	22.15	28.36	6.21	13	0.86	23.01	30	Pass

Band4	5	1712.5	QPSK	12	MID	22.14	28.14	6	13	0.86	23	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	22.19	28.09	5.9	13	0.86	23.05	30	Pass
Band4	5	1712.5	QPSK	1	LOW	23.09	29.01	5.92	13	0.86	23.95	30	Pass
Band4	5	1712.5	QPSK	1	MID	23.13	28.99	5.86	13	0.86	23.99	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	22.96	28.87	5.91	13	0.86	23.82	30	Pass
Band4	5	1712.5	16QAM	25	LOW	21.29	29.08	7.79	13	0.86	22.15	30	Pass
Band4	5	1712.5	16QAM	12	LOW	21.6	28.78	7.18	13	0.86	22.46	30	Pass
Band4	5	1712.5	16QAM	12	MID	21.77	29.06	7.29	13	0.86	22.63	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	21.2	28.52	7.32	13	0.86	22.06	30	Pass
Band4	5	1712.5	16QAM	1	LOW	21.48	27.32	5.84	13	0.86	22.34	30	Pass
Band4	5	1712.5	16QAM	1	MID	21.5	27.33	5.83	13	0.86	22.36	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	21.34	27.26	5.92	13	0.86	22.2	30	Pass
Band4	5	1732.5	QPSK	25	LOW	21.91	28.03	6.12	13	0.86	22.77	30	Pass
Band4	5	1732.5	QPSK	12	LOW	21.98	28.37	6.39	13	0.86	22.84	30	Pass
Band4	5	1732.5	QPSK	12	MID	21.98	28.59	6.61	13	0.86	22.84	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	21.85	28.37	6.52	13	0.86	22.71	30	Pass
Band4	5	1732.5	QPSK	1	LOW	22.9	28.42	5.52	13	0.86	23.76	30	Pass
Band4	5	1732.5	QPSK	1	MID	23.04	28.12	5.08	13	0.86	23.9	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	22.95	28.11	5.16	13	0.86	23.81	30	Pass
Band4	5	1732.5	16QAM	25	LOW	21.06	29.32	8.26	13	0.86	21.92	30	Pass
Band4	5	1732.5	16QAM	12	LOW	20.96	27.79	6.83	13	0.86	21.82	30	Pass
Band4	5	1732.5	16QAM	12	MID	20.97	27.9	6.93	13	0.86	21.83	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	20.99	27.84	6.85	13	0.86	21.85	30	Pass
Band4	5	1732.5	16QAM	1	LOW	22.16	28.02	5.86	13	0.86	23.02	30	Pass
Band4	5	1732.5	16QAM	1	MID	22.03	27.85	5.82	13	0.86	22.89	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	22.1	27.92	5.82	13	0.86	22.96	30	Pass
Band4	5	1752.5	QPSK	25	LOW	21.64	27.91	6.27	13	0.86	22.5	30	Pass
Band4	5	1752.5	QPSK	12	LOW	21.58	27.43	5.85	13	0.86	22.44	30	Pass
Band4	5	1752.5	QPSK	12	MID	21.57	27.48	5.91	13	0.86	22.43	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	21.6	27.52	5.92	13	0.86	22.46	30	Pass
Band4	5	1752.5	QPSK	1	LOW	22.58	27.79	5.21	13	0.86	23.44	30	Pass
Band4	5	1752.5	QPSK	1	MID	22.58	27.68	5.1	13	0.86	23.44	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	22.59	27.5	4.91	13	0.86	23.45	30	Pass
Band4	5	1752.5	16QAM	25	LOW	20.63	27.68	7.05	13	0.86	21.49	30	Pass
Band4	5	1752.5	16QAM	12	LOW	20.62	27.4	6.78	13	0.86	21.48	30	Pass
Band4	5	1752.5	16QAM	12	MID	20.62	27.55	6.93	13	0.86	21.48	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	20.55	27.29	6.74	13	0.86	21.41	30	Pass
Band4	5	1752.5	16QAM	1	LOW	21.22	27.51	6.29	13	0.86	22.08	30	Pass
Band4	5	1752.5	16QAM	1	MID	21.25	27.36	6.11	13	0.86	22.11	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	21.17	27.27	6.1	13	0.86	22.03	30	Pass
Band4	10	1715	QPSK	50	LOW	21.95	28.35	6.4	13	0.86	22.81	30	Pass
Band4	10	1715	QPSK	25	LOW	22.22	28.59	6.37	13	0.86	23.08	30	Pass
Band4	10	1715	QPSK	25	MID	22.21	28.58	6.37	13	0.86	23.07	30	Pass
Band4	10	1715	QPSK	25	HIGH	22.05	28.6	6.55	13	0.86	22.91	30	Pass
Band4	10	1715	QPSK	1	LOW	23.07	28	4.93	13	0.86	23.93	30	Pass
Band4	10	1715	QPSK	1	MID	23.01	27.9	4.89	13	0.86	23.87	30	Pass

Band4	10	1715	QPSK	1	HIGH	22.91	27.91	5	13	0.86	23.77	30	Pass
Band4	10	1715	16QAM	50	LOW	21.46	29.03	7.57	13	0.86	22.32	30	Pass
Band4	10	1715	16QAM	25	LOW	21.23	28.68	7.45	13	0.86	22.09	30	Pass
Band4	10	1715	16QAM	25	MID	21.23	28.68	7.45	13	0.86	22.09	30	Pass
Band4	10	1715	16QAM	25	HIGH	21.08	28.34	7.26	13	0.86	21.94	30	Pass
Band4	10	1715	16QAM	1	LOW	22.48	28.66	6.18	13	0.86	23.34	30	Pass
Band4	10	1715	16QAM	1	MID	22.36	28.52	6.16	13	0.86	23.22	30	Pass
Band4	10	1715	16QAM	1	HIGH	22.4	28.57	6.17	13	0.86	23.26	30	Pass
Band4	10	1732.5	QPSK	50	LOW	21.96	28.63	6.67	13	0.86	22.82	30	Pass
Band4	10	1732.5	QPSK	25	LOW	21.99	28.42	6.43	13	0.86	22.85	30	Pass
Band4	10	1732.5	QPSK	25	MID	22.01	28.27	6.26	13	0.86	22.87	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	21.84	28.21	6.37	13	0.86	22.7	30	Pass
Band4	10	1732.5	QPSK	1	LOW	23.32	28.45	5.13	13	0.86	24.18	30	Pass
Band4	10	1732.5	QPSK	1	MID	23.12	28.25	5.13	13	0.86	23.98	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	23.19	28.38	5.19	13	0.86	24.05	30	Pass
Band4	10	1732.5	16QAM	50	LOW	21.01	28.46	7.45	13	0.86	21.87	30	Pass
Band4	10	1732.5	16QAM	25	LOW	21.11	28.73	7.62	13	0.86	21.97	30	Pass
Band4	10	1732.5	16QAM	25	MID	21.03	28.7	7.67	13	0.86	21.89	30	Pass
Band4	10	1732.5	16QAM	25	HIGH	21.37	28.85	7.48	13	0.86	22.23	30	Pass
Band4	10	1732.5	16QAM	1	LOW	22.21	28.01	5.8	13	0.86	23.07	30	Pass
Band4	10	1732.5	16QAM	1	MID	22.14	27.2	5.06	13	0.86	23	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	22.11	27.6	5.49	13	0.86	22.97	30	Pass
Band4	10	1750	QPSK	50	LOW	21.6	28.1	6.5	13	0.86	22.46	30	Pass
Band4	10	1750	QPSK	25	LOW	21.65	28.51	6.86	13	0.86	22.51	30	Pass
Band4	10	1750	QPSK	25	MID	21.65	28.5	6.85	13	0.86	22.51	30	Pass
Band4	10	1750	QPSK	25	HIGH	21.65	28.28	6.63	13	0.86	22.51	30	Pass
Band4	10	1750	QPSK	1	LOW	23.01	27.96	4.95	13	0.86	23.87	30	Pass
Band4	10	1750	QPSK	1	MID	22.87	27.6	4.73	13	0.86	23.73	30	Pass
Band4	10	1750	QPSK	1	HIGH	22.72	27.4	4.68	13	0.86	23.58	30	Pass
Band4	10	1750	16QAM	50	LOW	20.85	28.65	7.8	13	0.86	21.71	30	Pass
Band4	10	1750	16QAM	25	LOW	20.79	28.04	7.25	13	0.86	21.65	30	Pass
Band4	10	1750	16QAM	25	MID	20.98	28.15	7.17	13	0.86	21.84	30	Pass
Band4	10	1750	16QAM	25	HIGH	20.74	27.99	7.25	13	0.86	21.6	30	Pass
Band4	10	1750	16QAM	1	LOW	21.54	26.87	5.33	13	0.86	22.4	30	Pass
Band4	10	1750	16QAM	1	MID	21.63	26.79	5.16	13	0.86	22.49	30	Pass
Band4	10	1750	16QAM	1	HIGH	21.63	26.73	5.1	13	0.86	22.49	30	Pass
Band4	15	1717.5	QPSK	75	LOW	22.19	29.2	7.01	13	0.86	23.05	30	Pass
Band4	15	1717.5	QPSK	38	LOW	22.15	29.24	7.09	13	0.86	23.01	30	Pass
Band4	15	1717.5	QPSK	38	MID	22.15	29.19	7.04	13	0.86	23.01	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	22.15	29.25	7.1	13	0.86	23.01	30	Pass
Band4	15	1717.5	QPSK	1	LOW	23.27	28.14	4.87	13	0.86	24.13	30	Pass
Band4	15	1717.5	QPSK	1	MID	23.12	27.98	4.86	13	0.86	23.98	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	22.93	27.87	4.94	13	0.86	23.79	30	Pass
Band4	15	1717.5	16QAM	75	LOW	21.12	28.65	7.53	13	0.86	21.98	30	Pass
Band4	15	1717.5	16QAM	38	LOW	21.16	28.71	7.55	13	0.86	22.02	30	Pass
Band4	15	1717.5	16QAM	38	MID	21.17	28.62	7.45	13	0.86	22.03	30	Pass

Band4	15	1717.5	16QAM	38	HIGH	21.17	28.68	7.51	13	0.86	22.03	30	Pass
Band4	15	1717.5	16QAM	1	LOW	22.84	28.78	5.94	13	0.86	23.7	30	Pass
Band4	15	1717.5	16QAM	1	MID	22.87	28.71	5.84	13	0.86	23.73	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	22.6	28.64	6.04	13	0.86	23.46	30	Pass
Band4	15	1732.5	QPSK	75	LOW	21.9	28.94	7.04	13	0.86	22.76	30	Pass
Band4	15	1732.5	QPSK	38	LOW	21.92	28.94	7.02	13	0.86	22.78	30	Pass
Band4	15	1732.5	QPSK	38	MID	21.92	28.92	7	13	0.86	22.78	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	21.9	28.95	7.05	13	0.86	22.76	30	Pass
Band4	15	1732.5	QPSK	1	LOW	23.39	28.48	5.09	13	0.86	24.25	30	Pass
Band4	15	1732.5	QPSK	1	MID	23.29	28.4	5.11	13	0.86	24.15	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	23	28.2	5.2	13	0.86	23.86	30	Pass
Band4	15	1732.5	16QAM	75	LOW	21.13	28.68	7.55	13	0.86	21.99	30	Pass
Band4	15	1732.5	16QAM	38	LOW	21.04	28.59	7.55	13	0.86	21.9	30	Pass
Band4	15	1732.5	16QAM	38	MID	20.93	28.54	7.61	13	0.86	21.79	30	Pass
Band4	15	1732.5	16QAM	38	HIGH	20.94	28.54	7.6	13	0.86	21.8	30	Pass
Band4	15	1732.5	16QAM	1	LOW	22.28	28.15	5.87	13	0.86	23.14	30	Pass
Band4	15	1732.5	16QAM	1	MID	22.12	27.11	4.99	13	0.86	22.98	30	Pass
Band4	15	1732.5	16QAM	1	HIGH	22.13	27.39	5.26	13	0.86	22.99	30	Pass
Band4	15	1747.5	QPSK	75	LOW	21.71	28.7	6.99	13	0.86	22.57	30	Pass
Band4	15	1747.5	QPSK	38	LOW	21.76	28.74	6.98	13	0.86	22.62	30	Pass
Band4	15	1747.5	QPSK	38	MID	21.76	28.71	6.95	13	0.86	22.62	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	21.75	28.73	6.98	13	0.86	22.61	30	Pass
Band4	15	1747.5	QPSK	1	LOW	22.88	27.86	4.98	13	0.86	23.74	30	Pass
Band4	15	1747.5	QPSK	1	MID	22.71	27.48	4.77	13	0.86	23.57	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	22.72	27.31	4.59	13	0.86	23.58	30	Pass
Band4	15	1747.5	16QAM	75	LOW	20.83	28.33	7.5	13	0.86	21.69	30	Pass
Band4	15	1747.5	16QAM	38	LOW	20.86	28.33	7.47	13	0.86	21.72	30	Pass
Band4	15	1747.5	16QAM	38	MID	20.87	28.41	7.54	13	0.86	21.73	30	Pass
Band4	15	1747.5	16QAM	38	HIGH	20.87	28.34	7.47	13	0.86	21.73	30	Pass
Band4	15	1747.5	16QAM	1	LOW	22.42	27.91	5.49	13	0.86	23.28	30	Pass
Band4	15	1747.5	16QAM	1	MID	22.27	27.15	4.88	13	0.86	23.13	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	22.26	27.34	5.08	13	0.86	23.12	30	Pass
Band4	20	1720	QPSK	100	LOW	21.91	28.48	6.57	13	0.86	22.77	30	Pass
Band4	20	1720	QPSK	50	LOW	22.14	28.61	6.47	13	0.86	23	30	Pass
Band4	20	1720	QPSK	50	MID	22.13	28.59	6.46	13	0.86	22.99	30	Pass
Band4	20	1720	QPSK	50	HIGH	22.01	28.51	6.5	13	0.86	22.87	30	Pass
Band4	20	1720	QPSK	1	LOW	23.23	28.29	5.06	13	0.86	24.09	30	Pass
Band4	20	1720	QPSK	1	MID	23.09	28.11	5.02	13	0.86	23.95	30	Pass
Band4	20	1720	QPSK	1	HIGH	23.25	28.27	5.02	13	0.86	24.11	30	Pass
Band4	20	1720	16QAM	100	LOW	21.2	29.4	8.2	13	0.86	22.06	30	Pass
Band4	20	1720	16QAM	50	LOW	21.32	29.2	7.88	13	0.86	22.18	30	Pass
Band4	20	1720	16QAM	50	MID	21.32	29.18	7.86	13	0.86	22.18	30	Pass
Band4	20	1720	16QAM	50	HIGH	21.02	28.86	7.84	13	0.86	21.88	30	Pass
Band4	20	1720	16QAM	1	LOW	22.45	28.95	6.5	13	0.86	23.31	30	Pass
Band4	20	1720	16QAM	1	MID	22.31	28.06	5.75	13	0.86	23.17	30	Pass
Band4	20	1720	16QAM	1	HIGH	22.7	29.13	6.43	13	0.86	23.56	30	Pass

Band4	20	1732.5	QPSK	100	LOW	21.89	28.77	6.88	13	0.86	22.75	30	Pass
Band4	20	1732.5	QPSK	50	LOW	21.99	28.51	6.52	13	0.86	22.85	30	Pass
Band4	20	1732.5	QPSK	50	MID	22	28.55	6.55	13	0.86	22.86	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	21.87	28.41	6.54	13	0.86	22.73	30	Pass
Band4	20	1732.5	QPSK	1	LOW	23.28	29.04	5.76	13	0.86	24.14	30	Pass
Band4	20	1732.5	QPSK	1	MID	23	27.95	4.95	13	0.86	23.86	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	22.89	28.91	6.02	13	0.86	23.75	30	Pass
Band4	20	1732.5	16QAM	100	LOW	20.97	28.73	7.76	13	0.86	21.83	30	Pass
Band4	20	1732.5	16QAM	50	LOW	21.62	28.88	7.26	13	0.86	22.48	30	Pass
Band4	20	1732.5	16QAM	50	MID	21.58	28.87	7.29	13	0.86	22.44	30	Pass
Band4	20	1732.5	16QAM	50	HIGH	21.1	28.64	7.54	13	0.86	21.96	30	Pass
Band4	20	1732.5	16QAM	1	LOW	22.56	28.58	6.02	13	0.86	23.42	30	Pass
Band4	20	1732.5	16QAM	1	MID	22.42	28.56	6.14	13	0.86	23.28	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	22.3	28.44	6.14	13	0.86	23.16	30	Pass
Band4	20	1745	QPSK	100	LOW	21.72	28.64	6.92	13	0.86	22.58	30	Pass
Band4	20	1745	QPSK	50	LOW	21.8	28.41	6.61	13	0.86	22.66	30	Pass
Band4	20	1745	QPSK	50	MID	21.8	28.4	6.6	13	0.86	22.66	30	Pass
Band4	20	1745	QPSK	50	HIGH	21.69	28.13	6.44	13	0.86	22.55	30	Pass
Band4	20	1745	QPSK	1	LOW	23.08	28.64	5.56	13	0.86	23.94	30	Pass
Band4	20	1745	QPSK	1	MID	23.12	27.99	4.87	13	0.86	23.98	30	Pass
Band4	20	1745	QPSK	1	HIGH	22.71	27.54	4.83	13	0.86	23.57	30	Pass
Band4	20	1745	16QAM	100	LOW	20.94	28.78	7.84	13	0.86	21.8	30	Pass
Band4	20	1745	16QAM	50	LOW	20.95	28.56	7.61	13	0.86	21.81	30	Pass
Band4	20	1745	16QAM	50	MID	21.08	28.54	7.46	13	0.86	21.94	30	Pass
Band4	20	1745	16QAM	50	HIGH	21.04	28.42	7.38	13	0.86	21.9	30	Pass
Band4	20	1745	16QAM	1	LOW	22.78	28.35	5.57	13	0.86	23.64	30	Pass
Band4	20	1745	16QAM	1	MID	22.53	27.89	5.36	13	0.86	23.39	30	Pass
Band4	20	1745	16QAM	1	HIGH	22.5	28.07	5.57	13	0.86	23.36	30	Pass