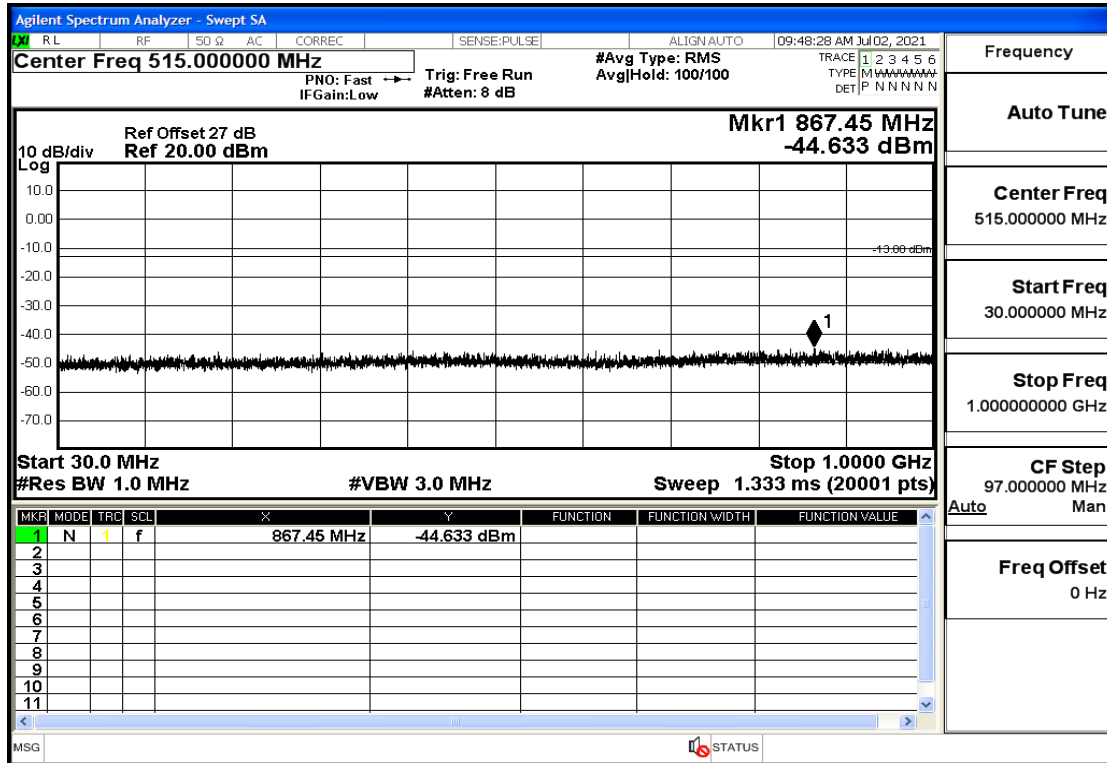
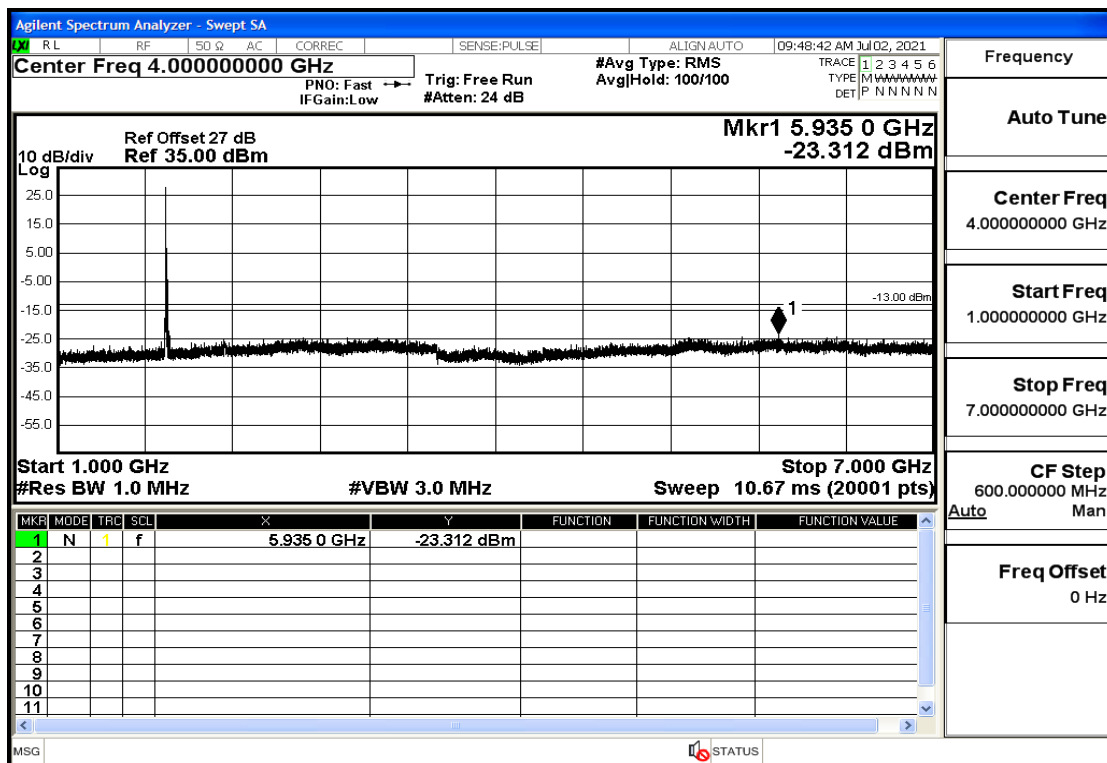


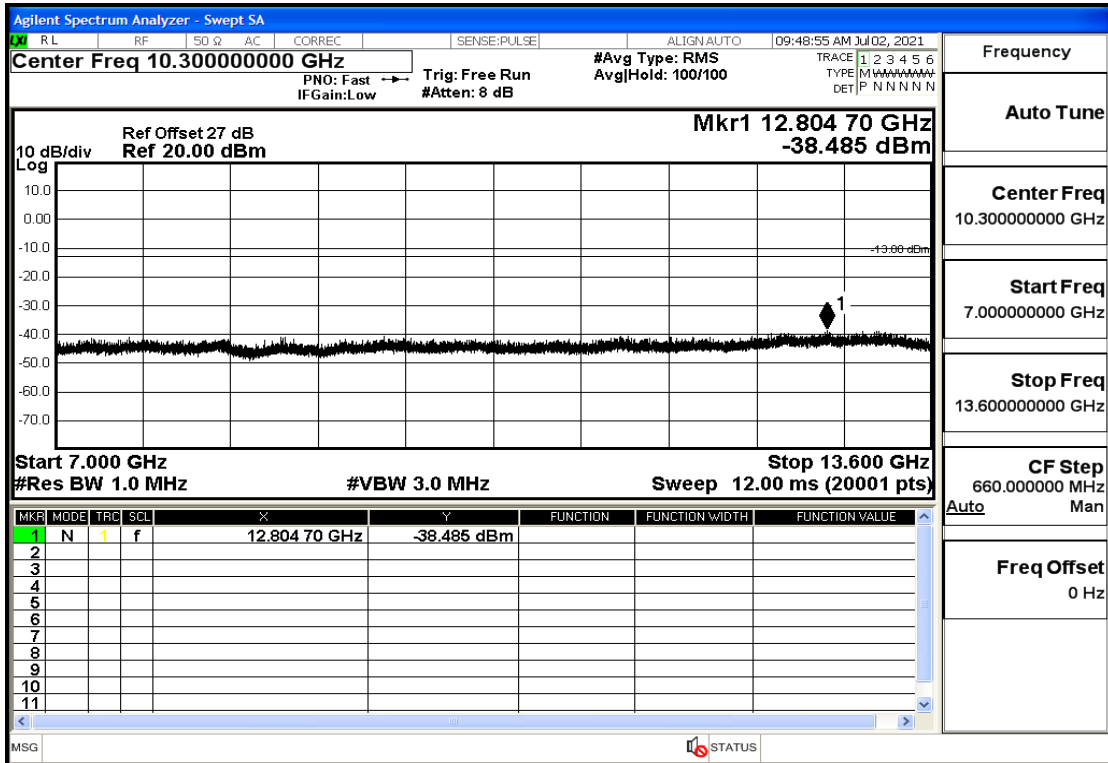
OB4-15-1747.5-QPSK-1#LOW@30mHz-1GHz@Pass



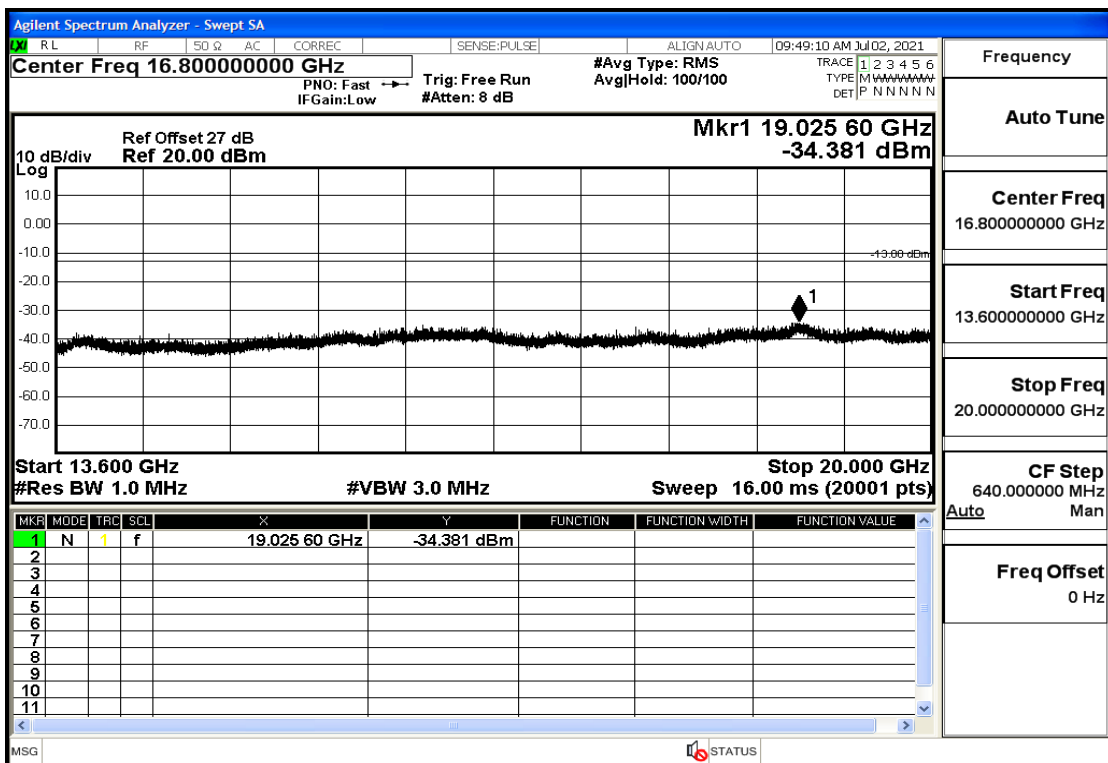
OB4-15-1747.5-QPSK-1#LOW@1GHz-7GHz@Pass



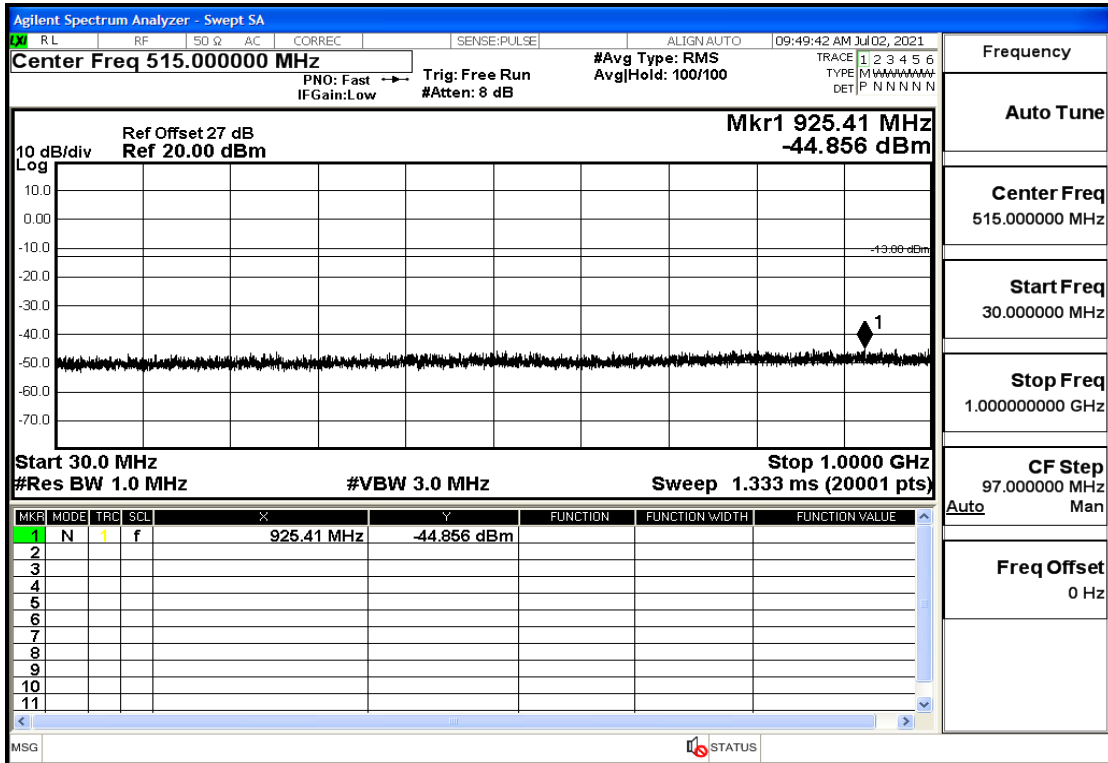
OB4-15-1747.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



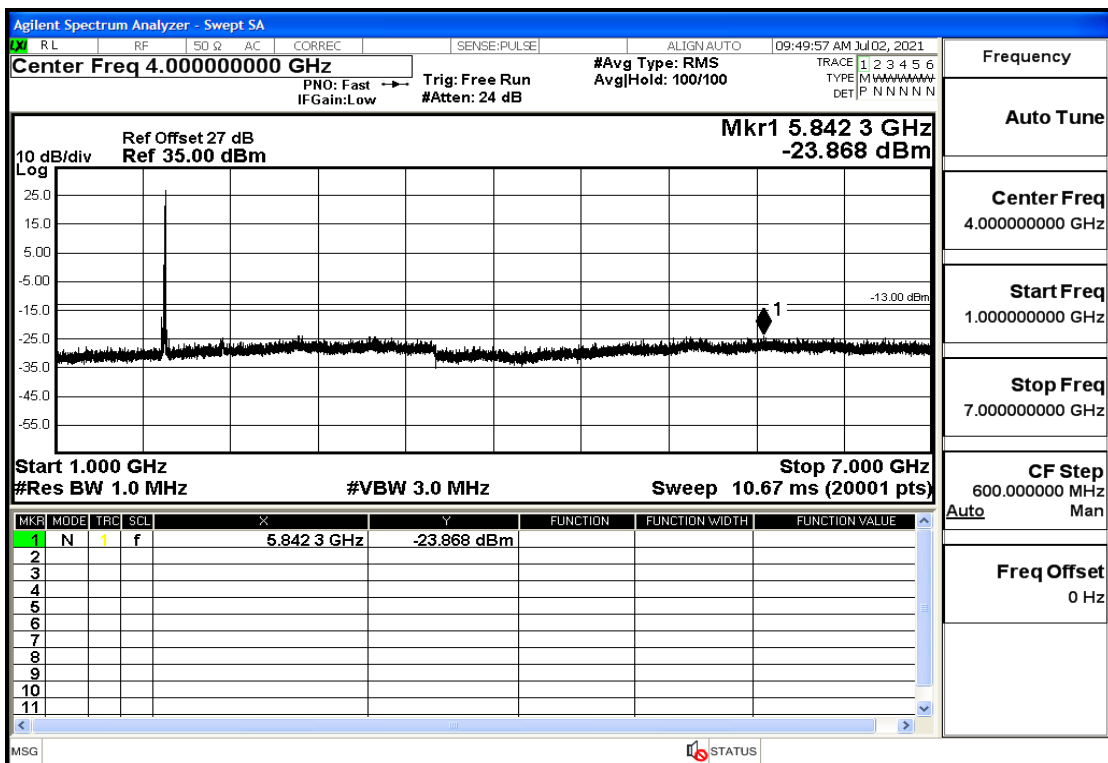
OB4-15-1747.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



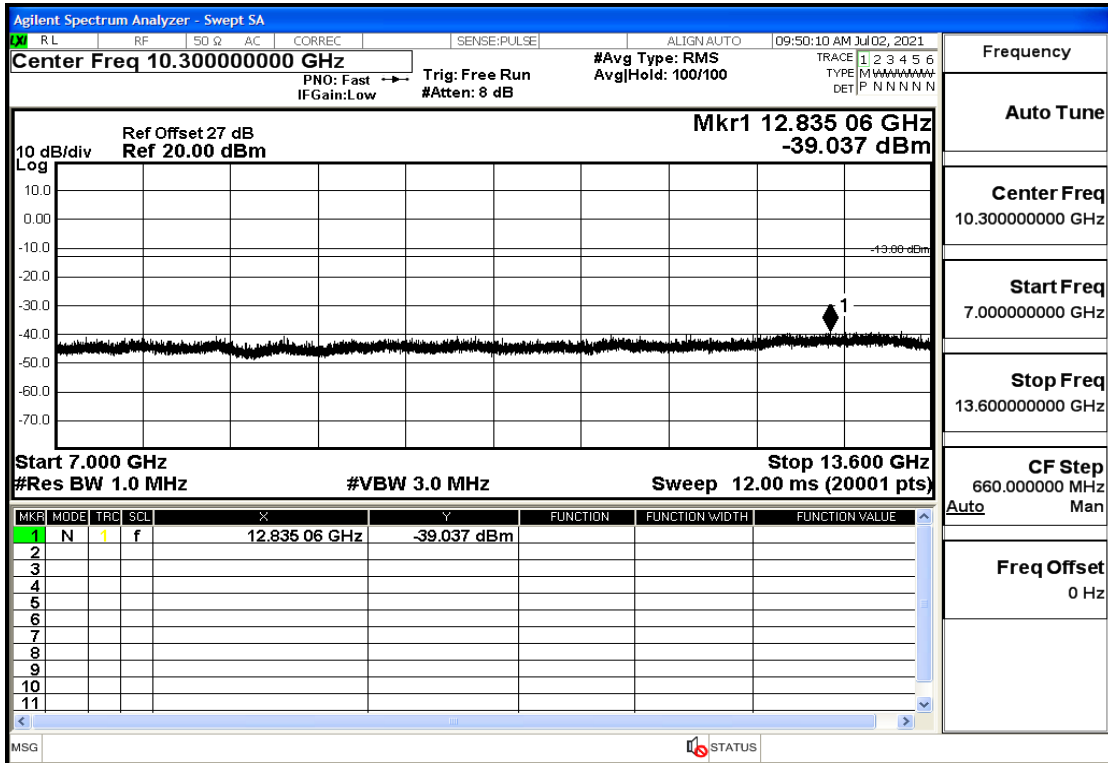
OB4-15-1747.5-QPSK-1#HIGH@30mHz-1GHz@Pass



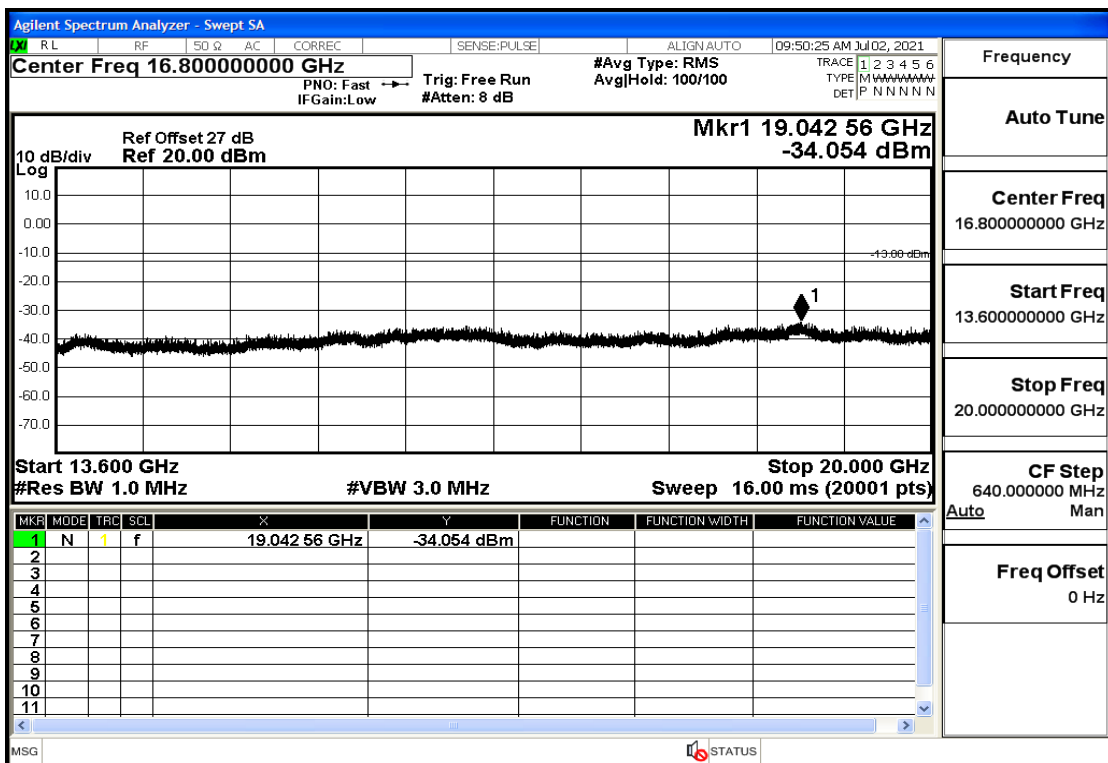
OB4-15-1747.5-QPSK-1#HIGH@1GHz-7GHz@Pass



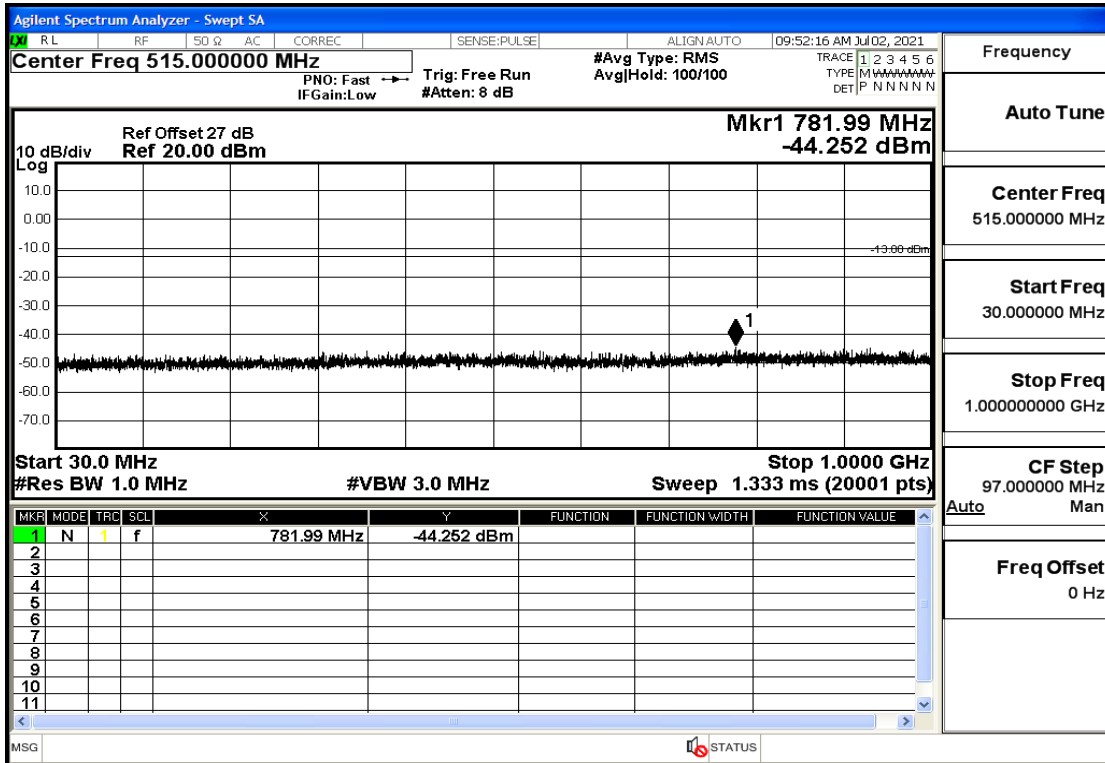
OB4-15-1747.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



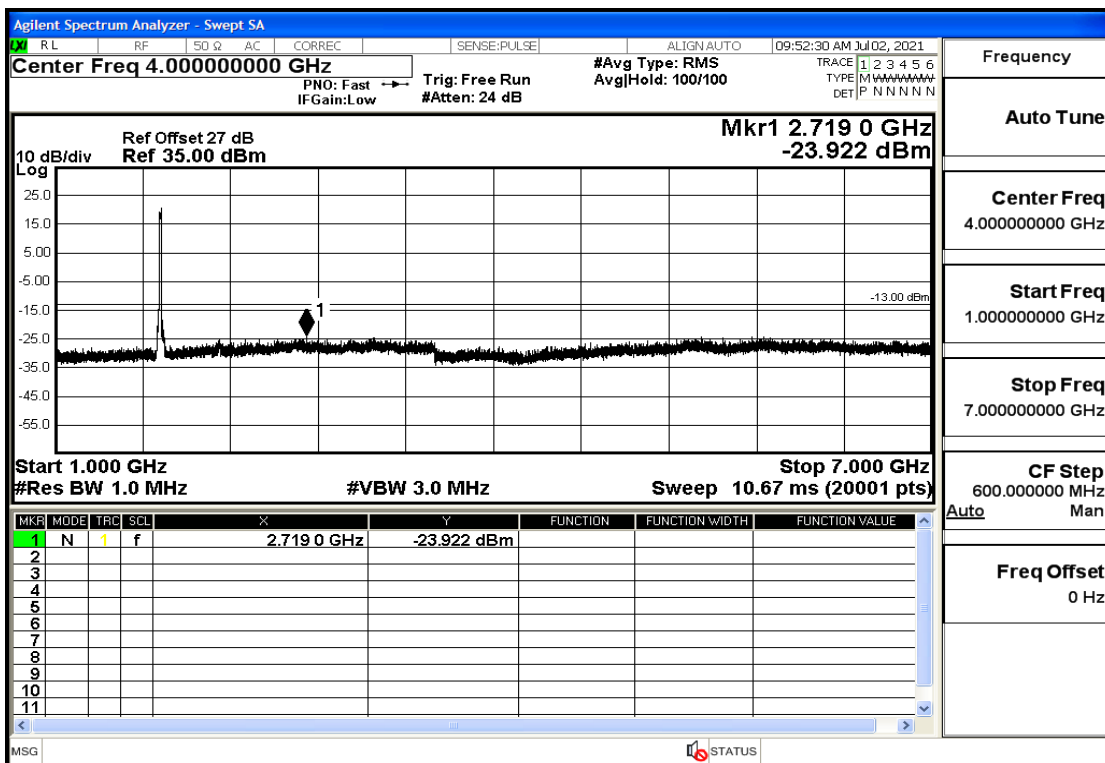
OB4-15-1747.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



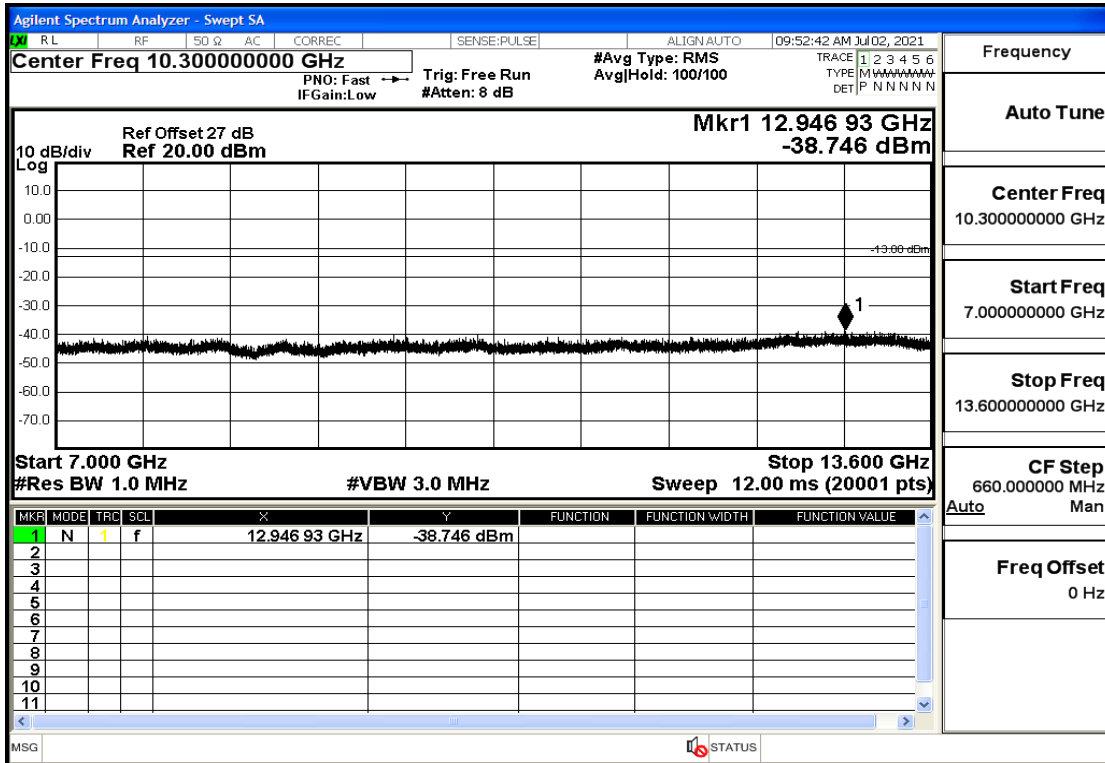
OB4-20-1720-QPSK-100#LOW@30mHz-1GHz@Pass



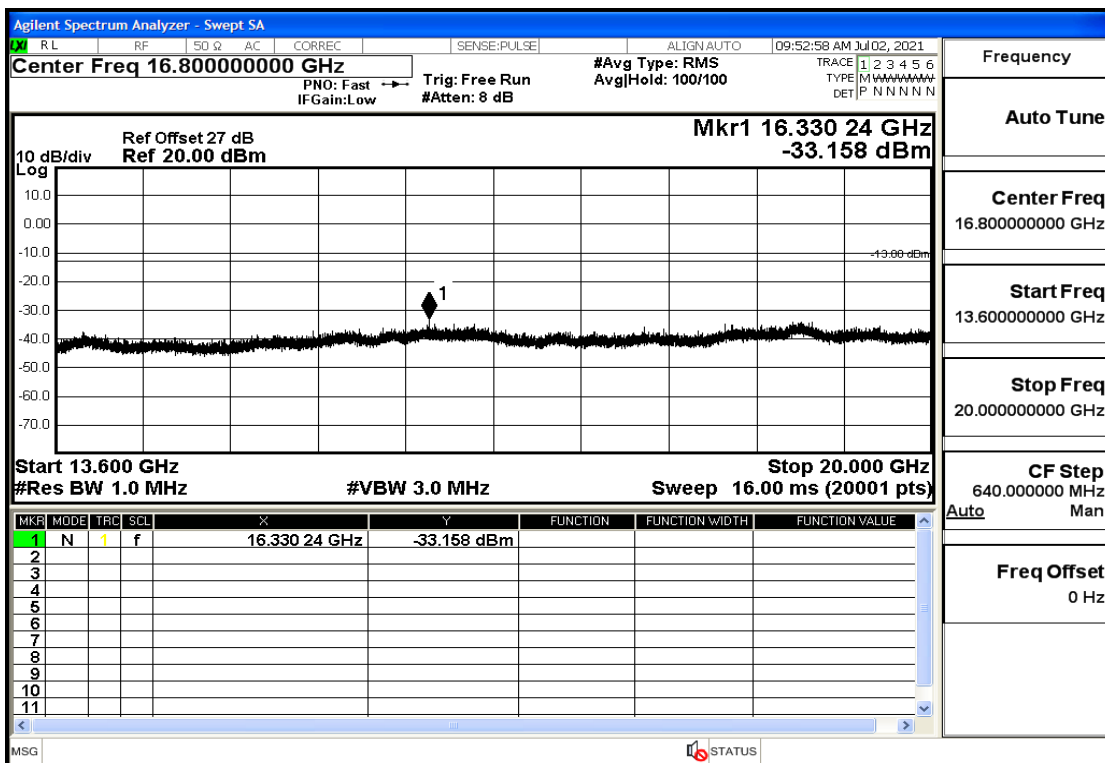
OB4-20-1720-QPSK-100#LOW@1GHz-7GHz@Pass



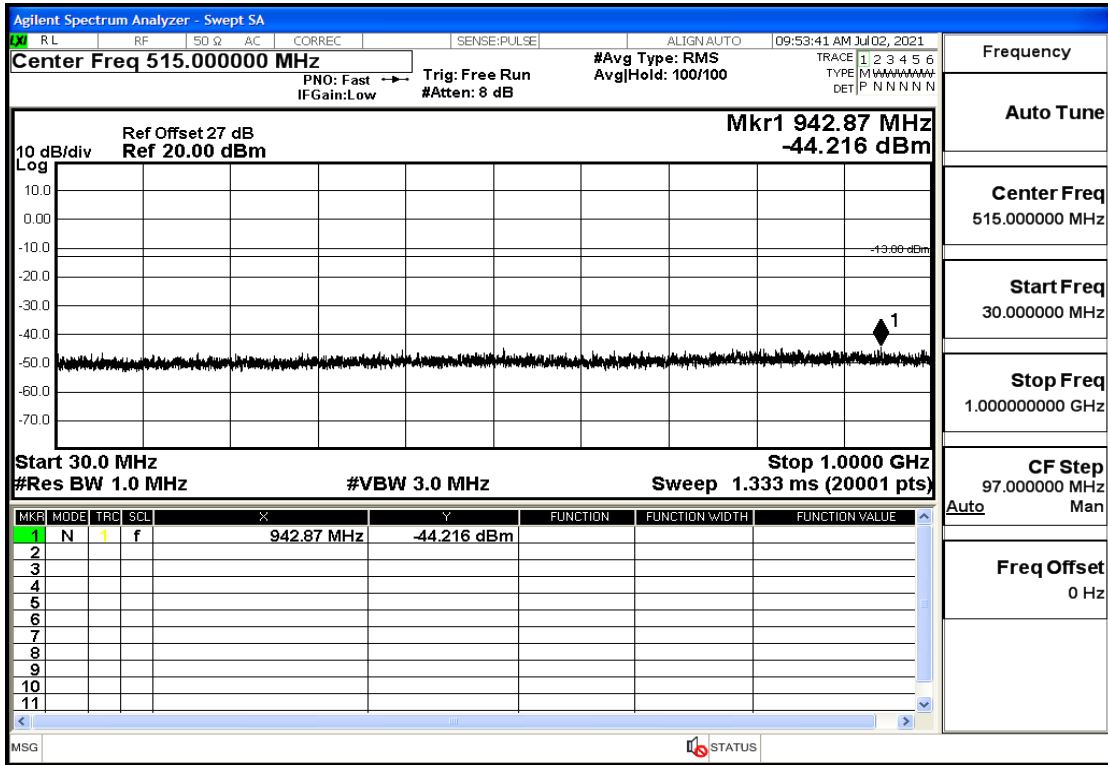
OB4-20-1720-QPSK-100#LOW@7GHz-13.6GHz@Pass



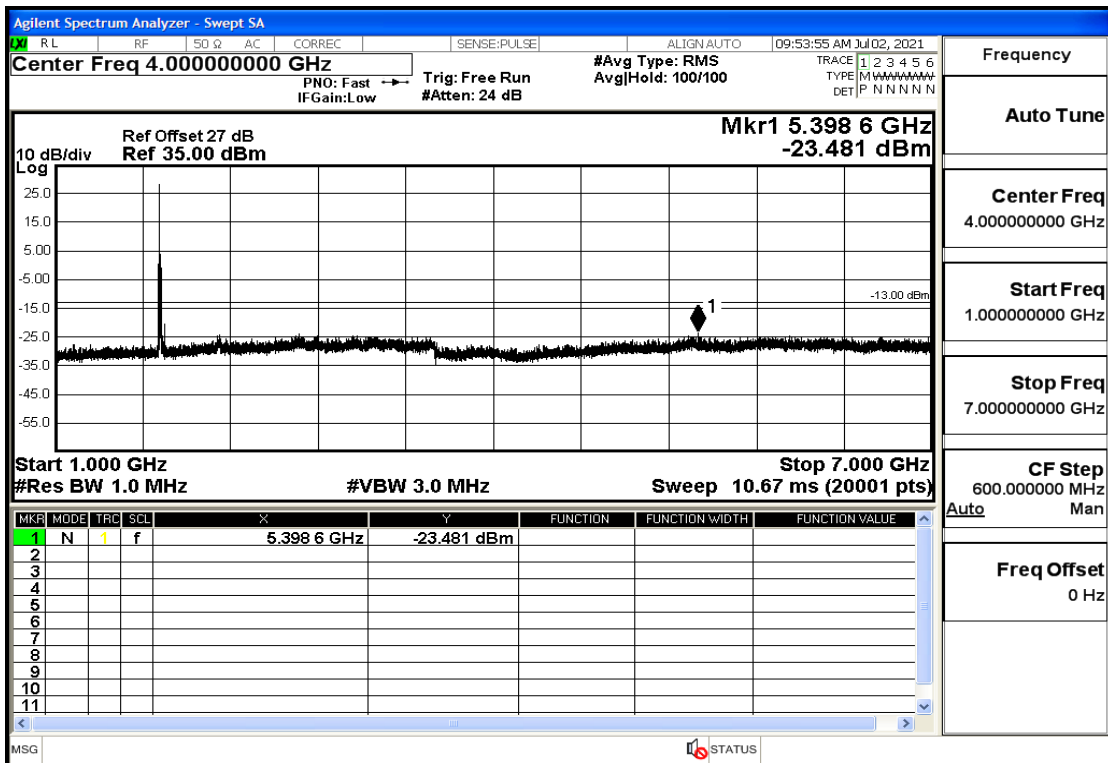
OB4-20-1720-QPSK-100#LOW@13.6GHz-20GHz@Pass



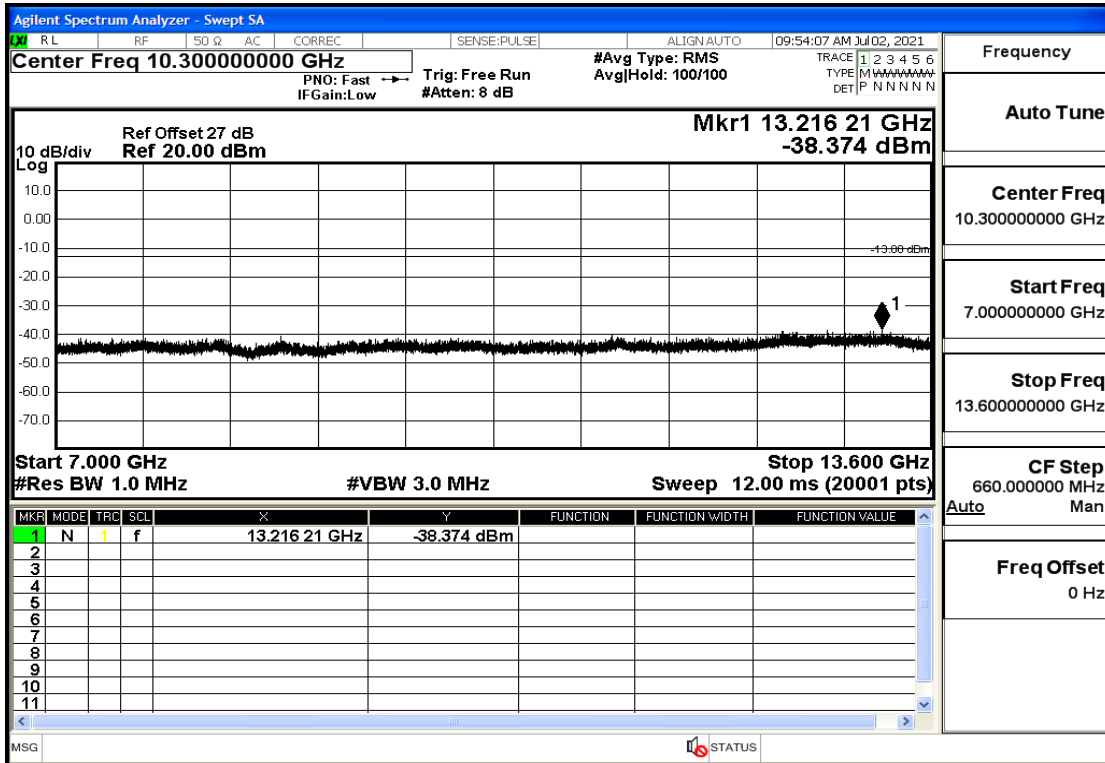
OB4-20-1720-QPSK-1#LOW@30mHz-1GHz@Pass



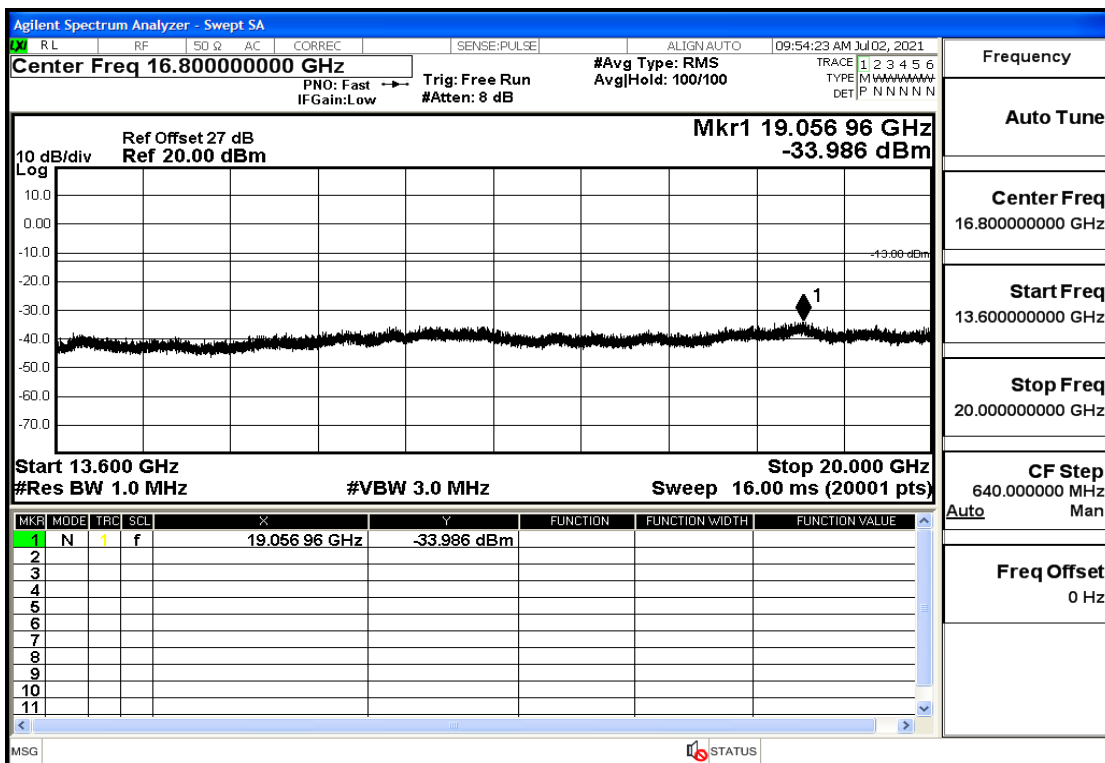
OB4-20-1720-QPSK-1#LOW@1GHz-7GHz@Pass



OB4-20-1720-QPSK-1#LOW@7GHz-13.6GHz@Pass

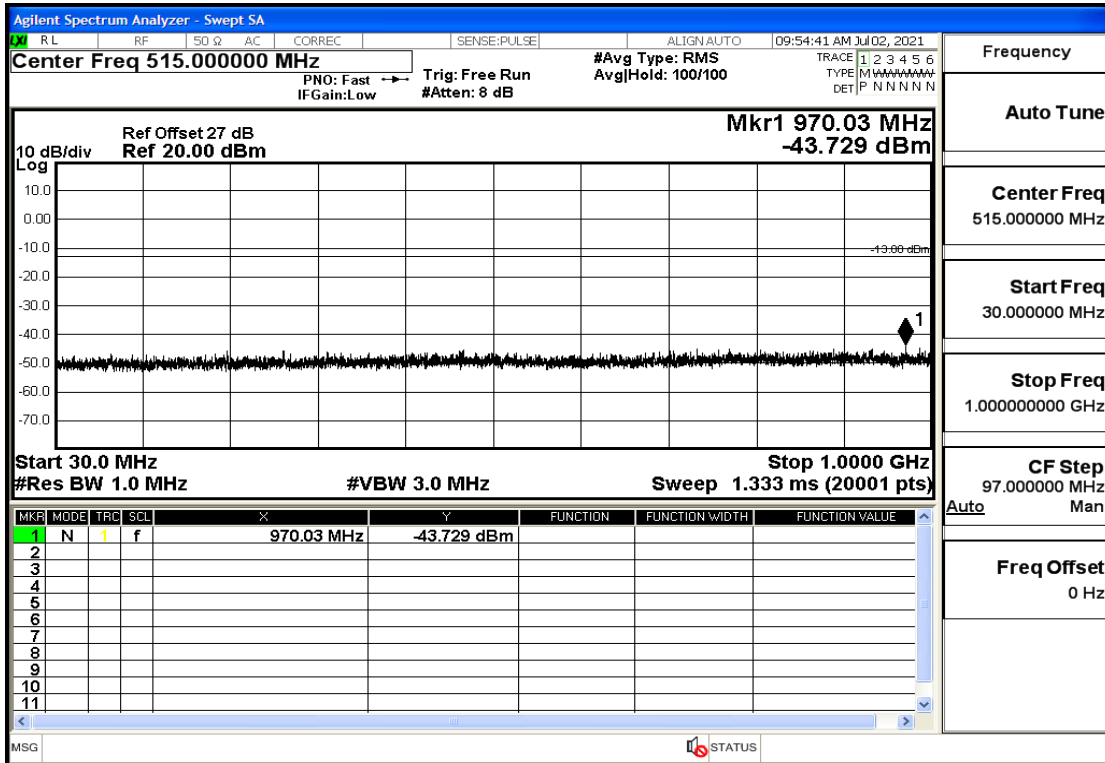


OB4-20-1720-QPSK-1#LOW@13.6GHz-20GHz@Pass

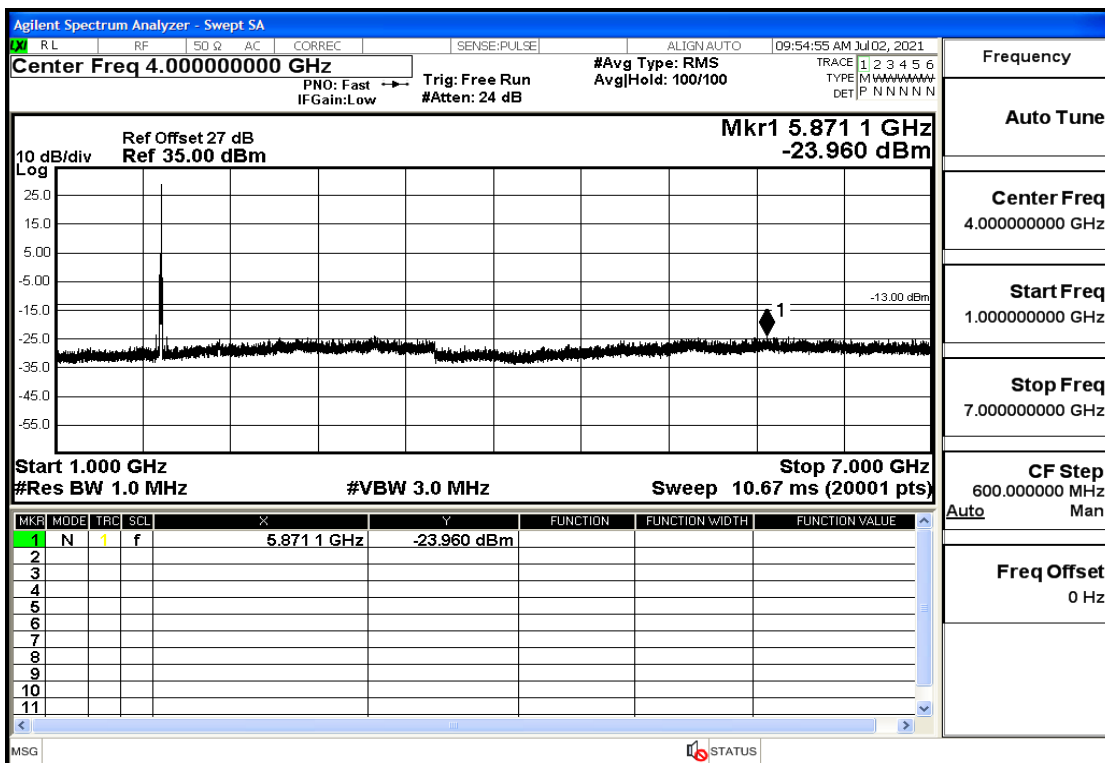




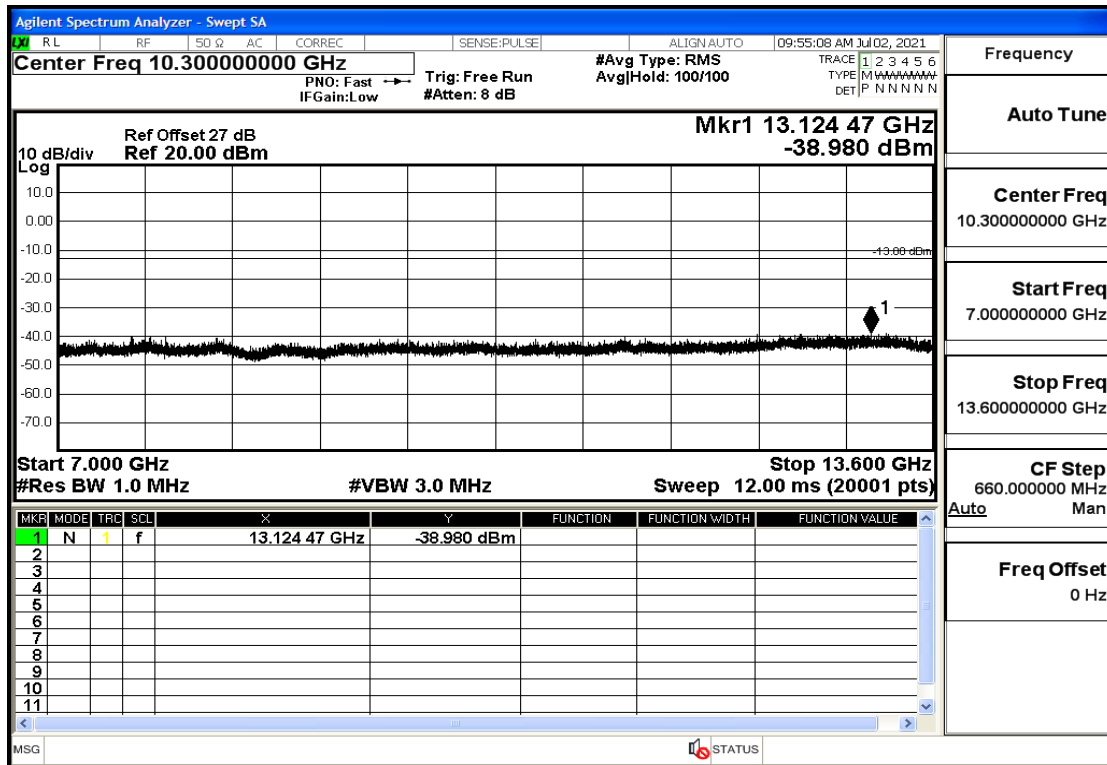
OB4-20-1720-QPSK-1#HIGH@30mHz-1GHz@Pass



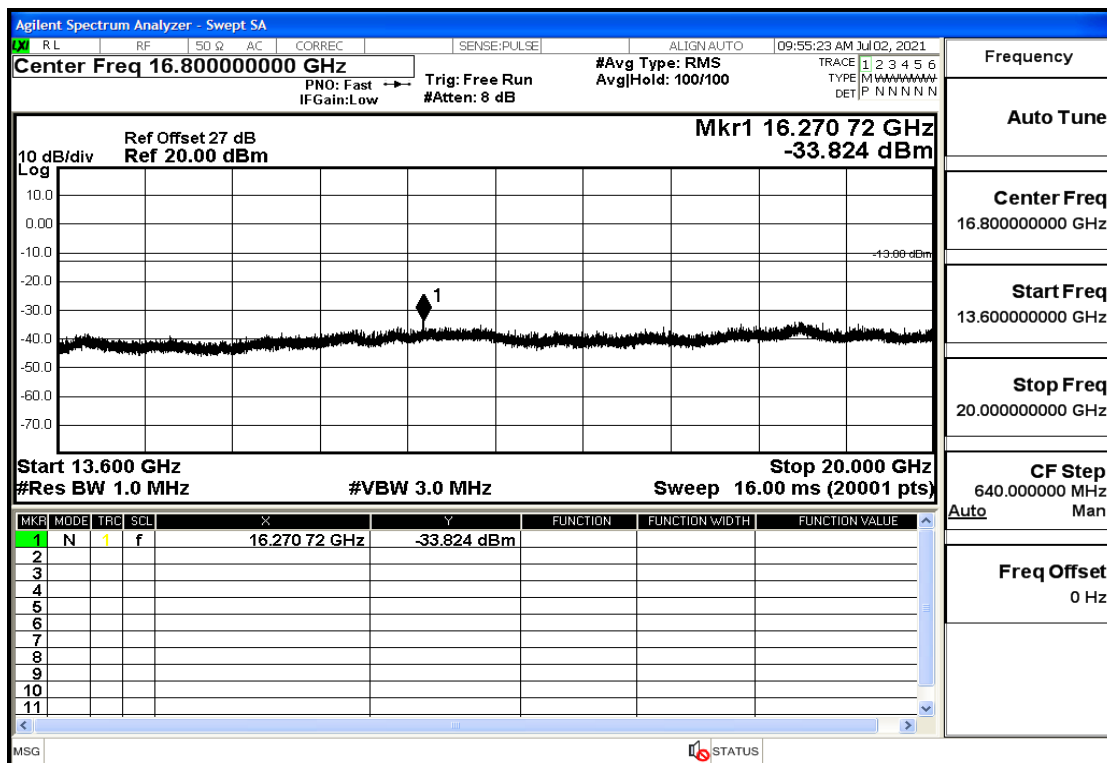
OB4-20-1720-QPSK-1#HIGH@1GHz-7GHz@Pass



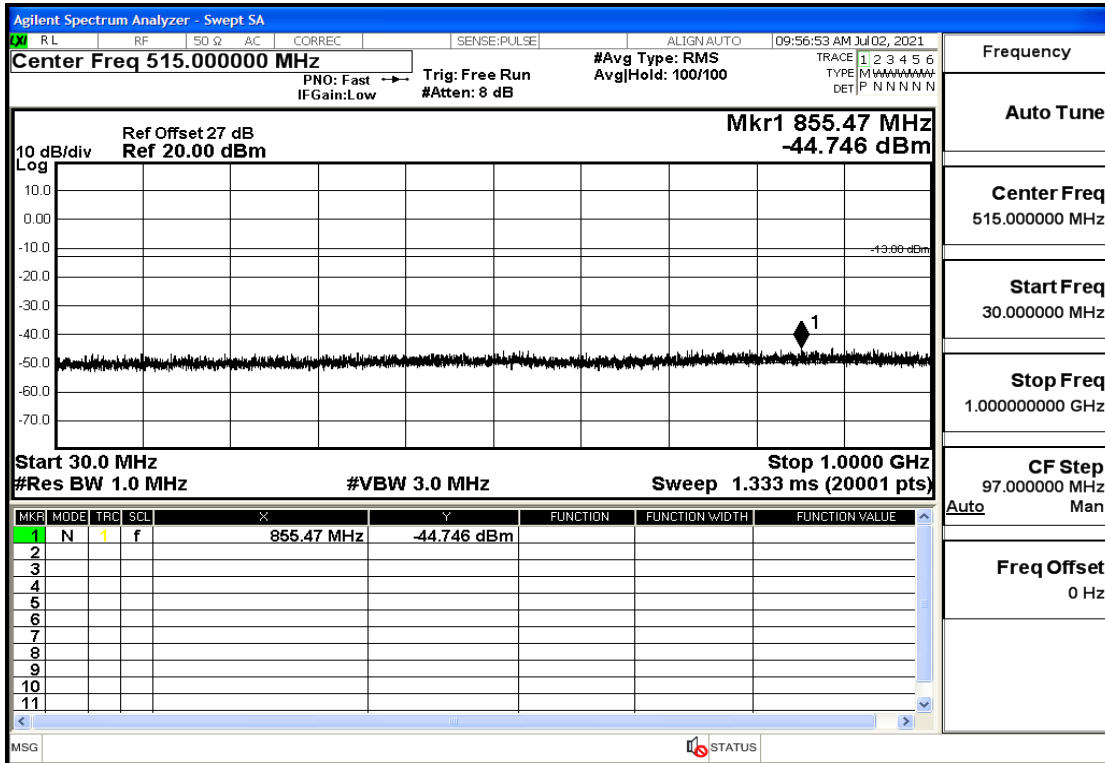
OB4-20-1720-QPSK-1#HIGH@7GHz-13.6GHz@Pass



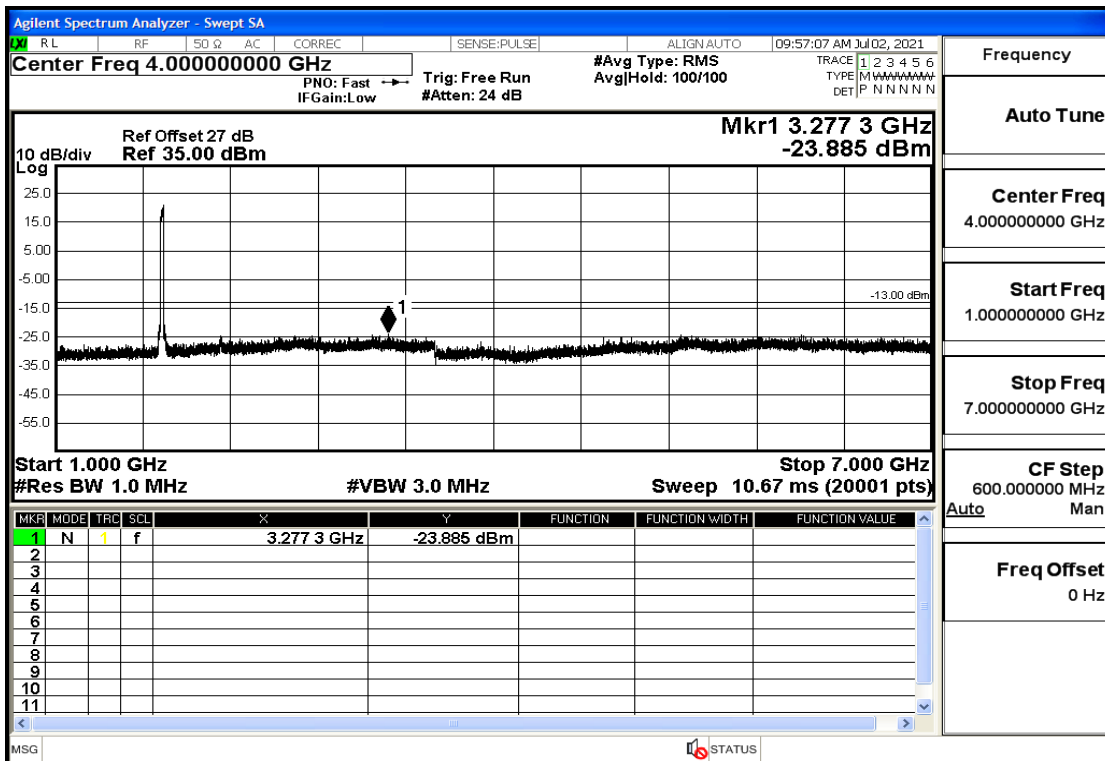
OB4-20-1720-QPSK-1#HIGH@13.6GHz-20GHz@Pass



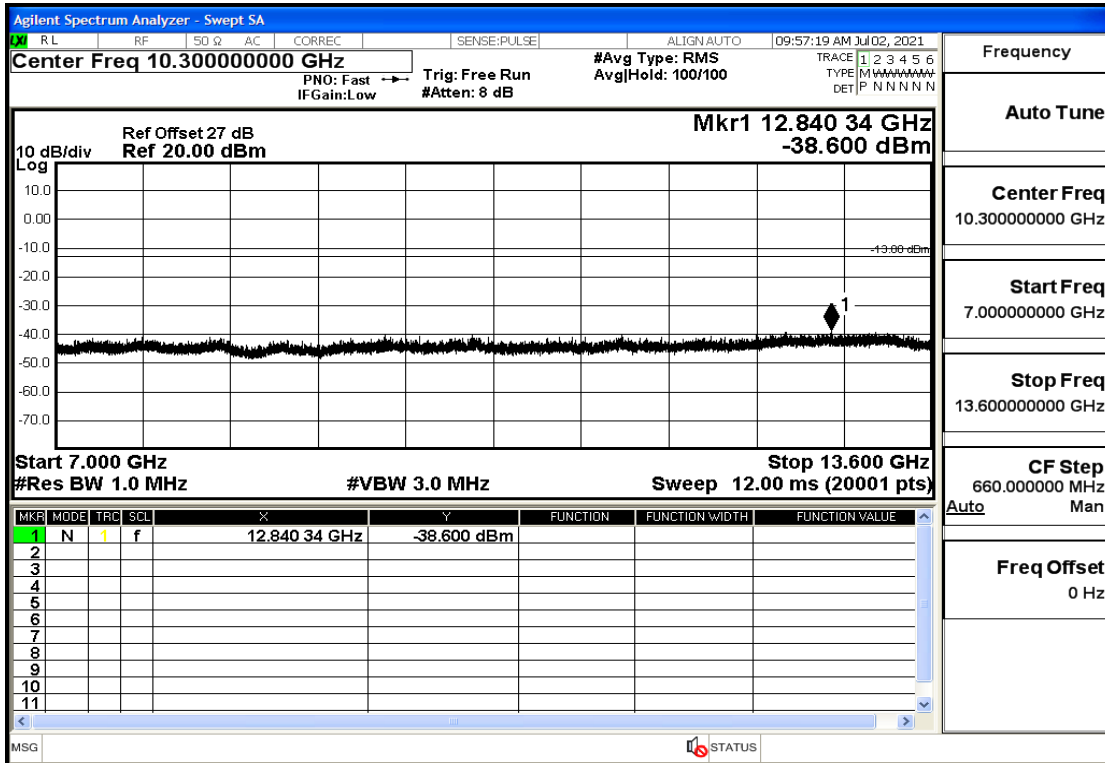
OB4-20-1732.5-QPSK-100#LOW@30mHz-1GHz@Pass



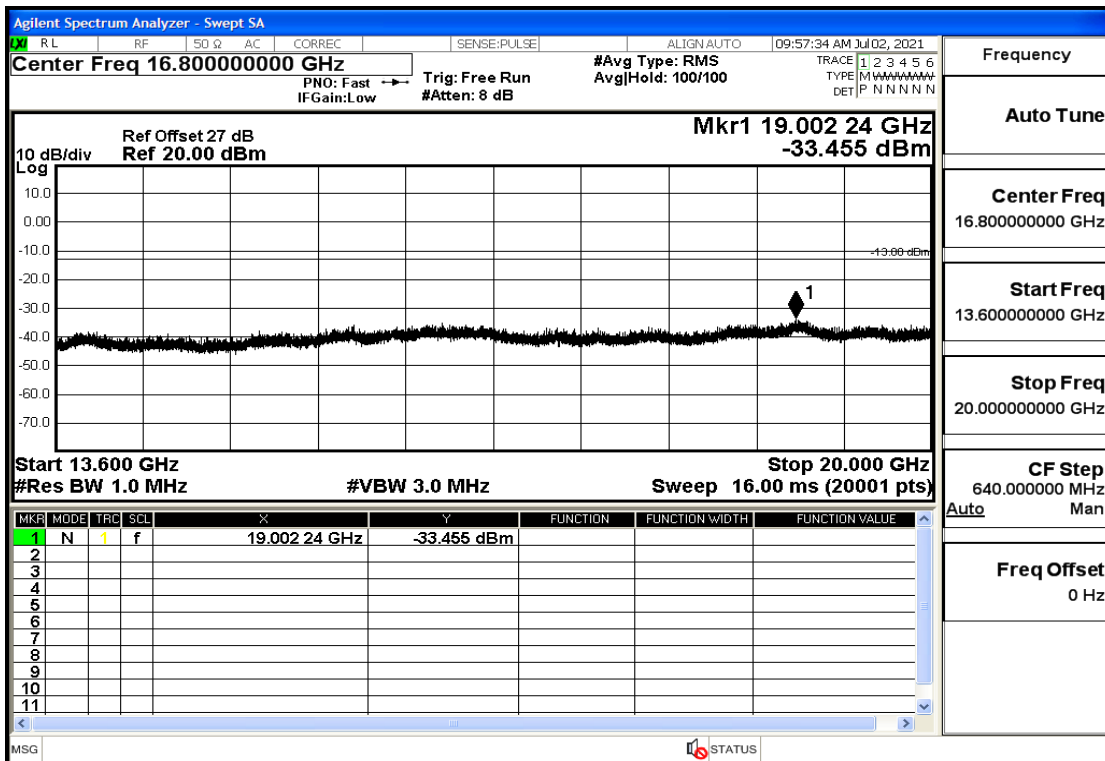
OB4-20-1732.5-QPSK-100#LOW@1GHz-7GHz@Pass



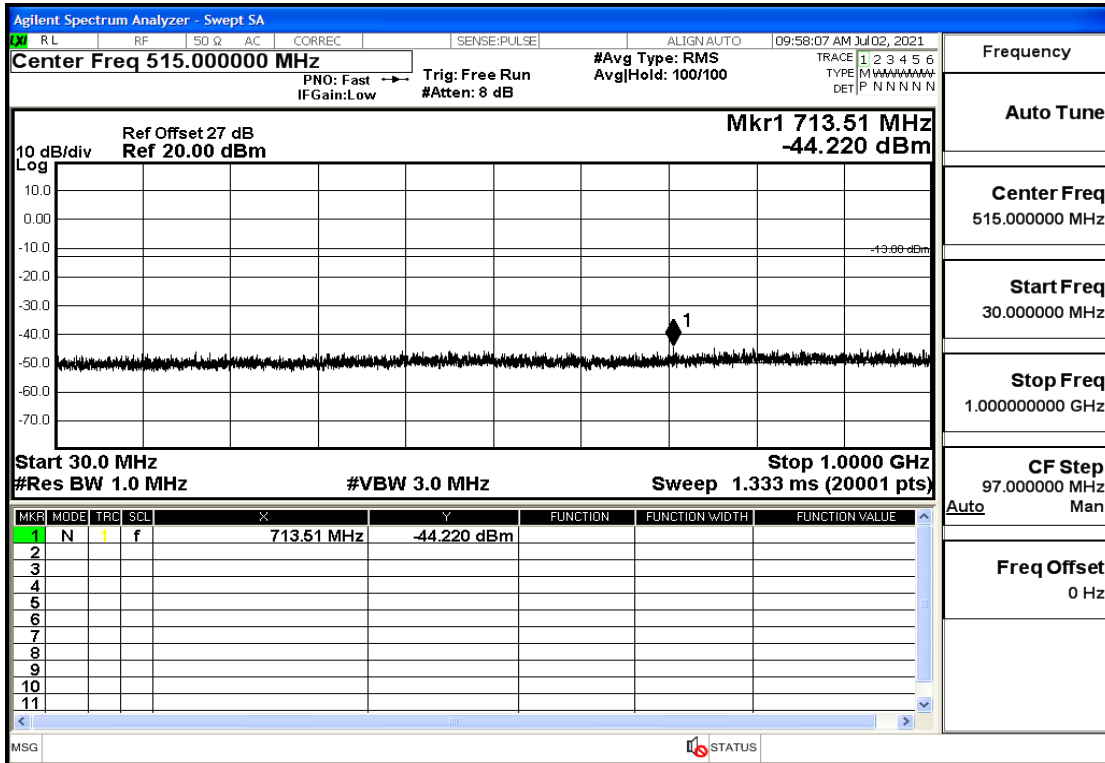
OB4-20-1732.5-QPSK-100#LOW@7GHz-13.6GHz@Pass



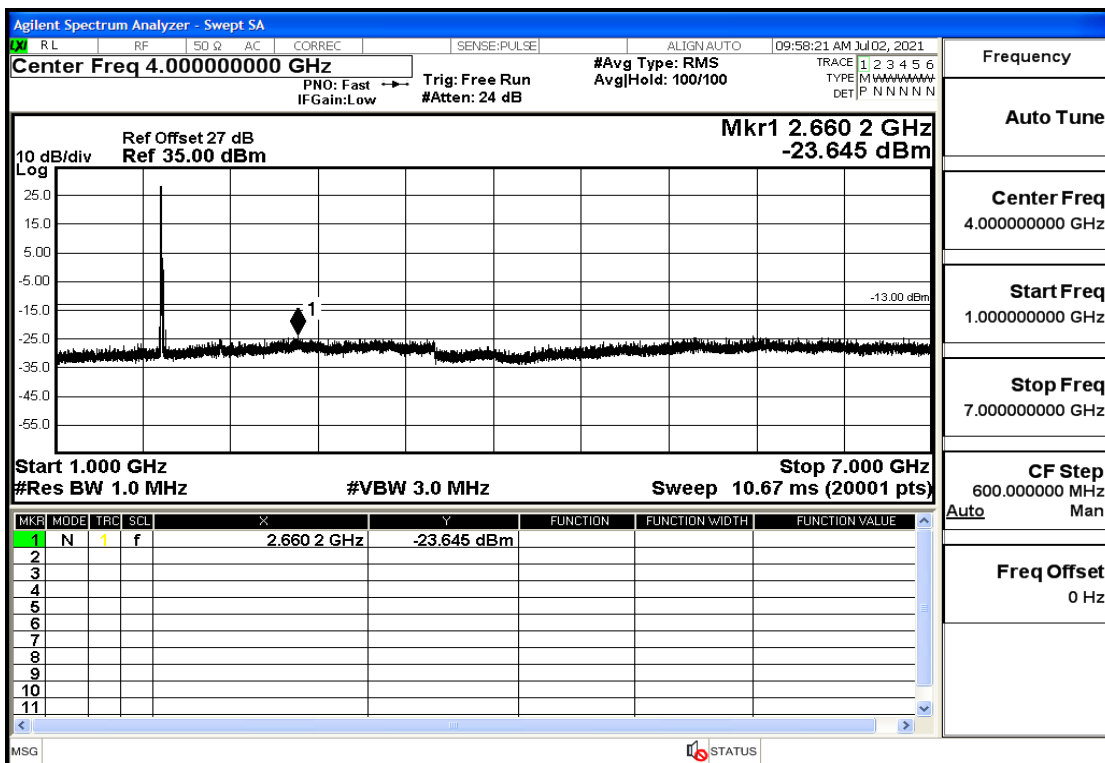
OB4-20-1732.5-QPSK-100#LOW@13.6GHz-20GHz@Pass



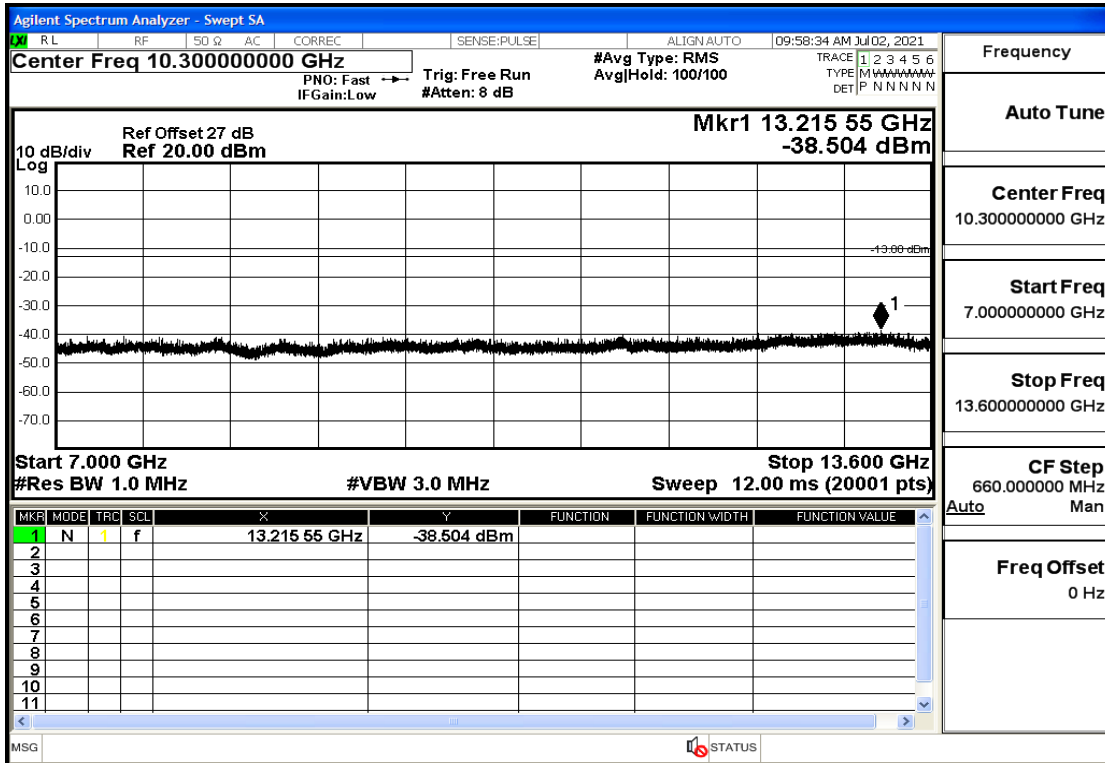
OB4-20-1732.5-QPSK-1#LOW@30mHz-1GHz@Pass



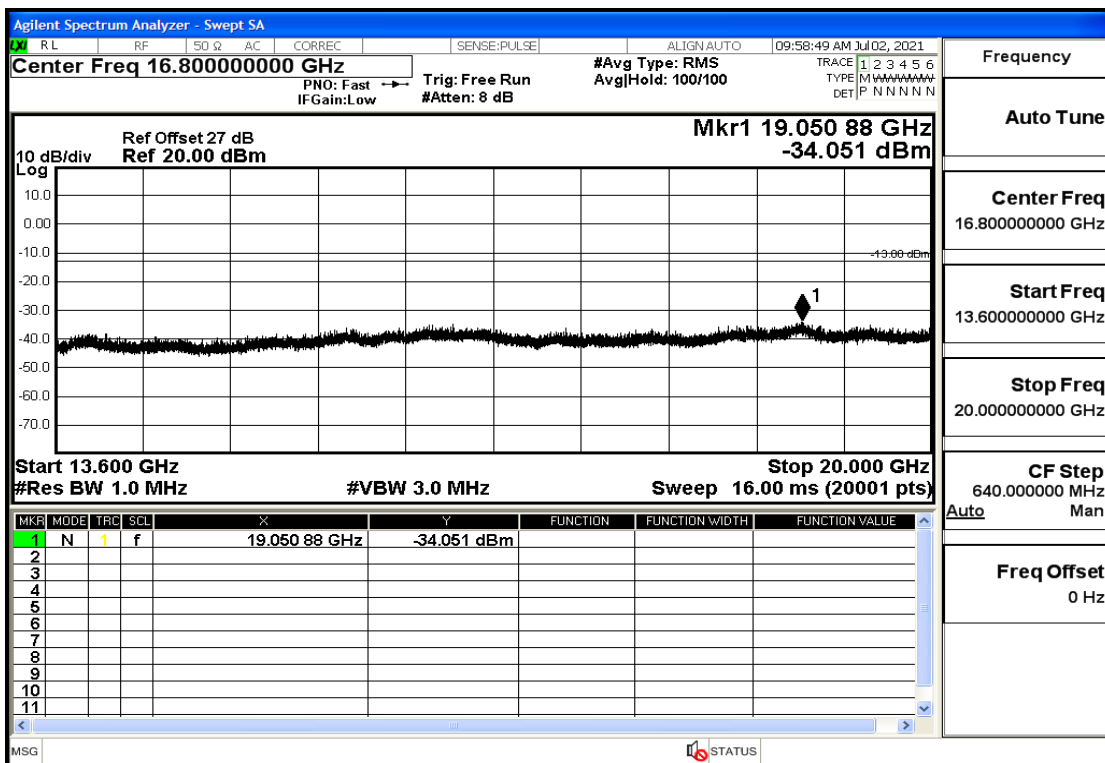
OB4-20-1732.5-QPSK-1#LOW@1GHz-7GHz@Pass



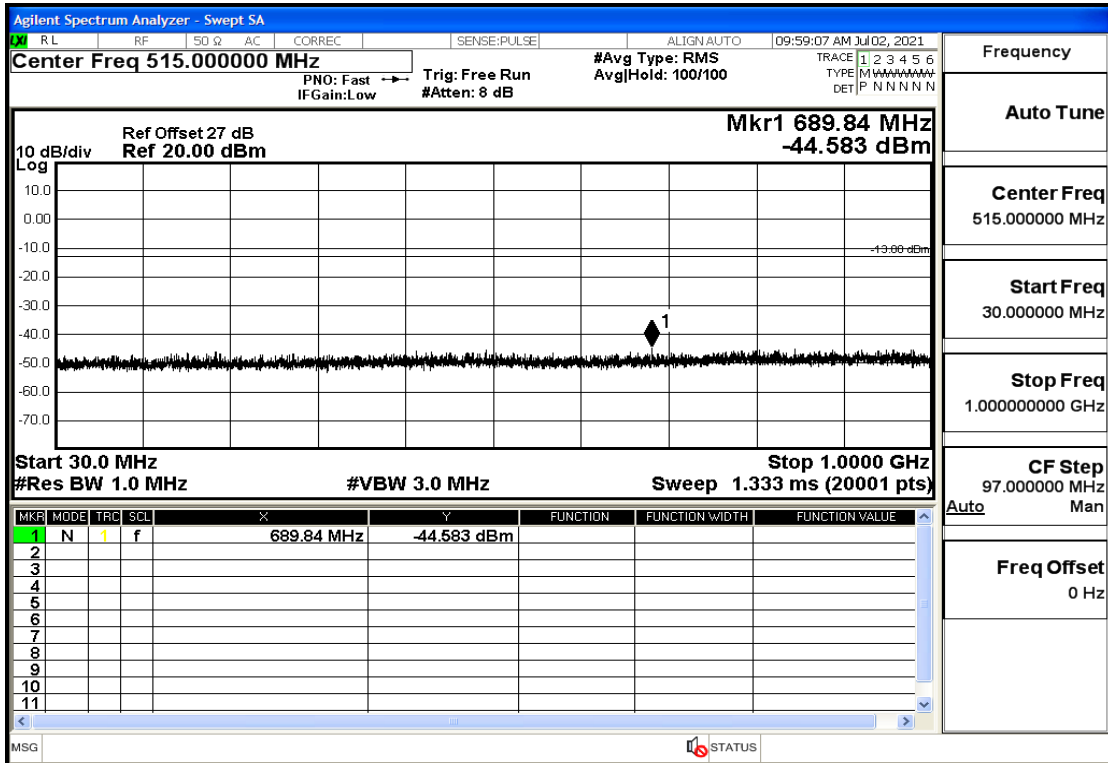
OB4-20-1732.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



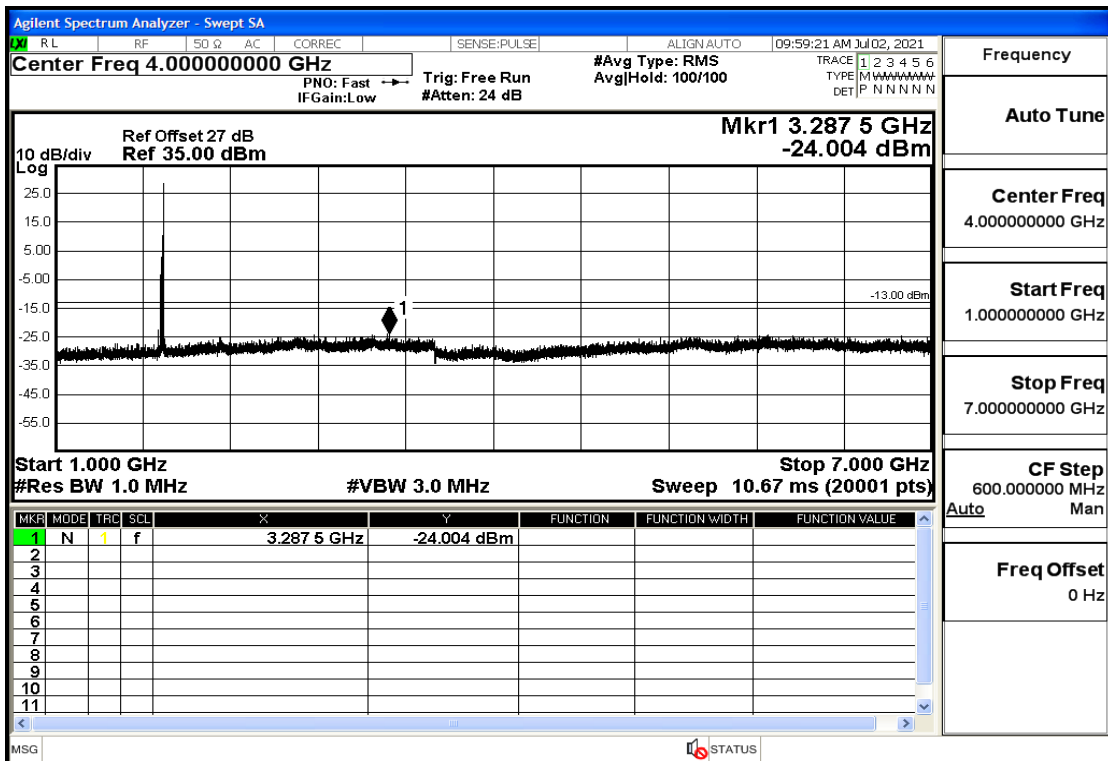
OB4-20-1732.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



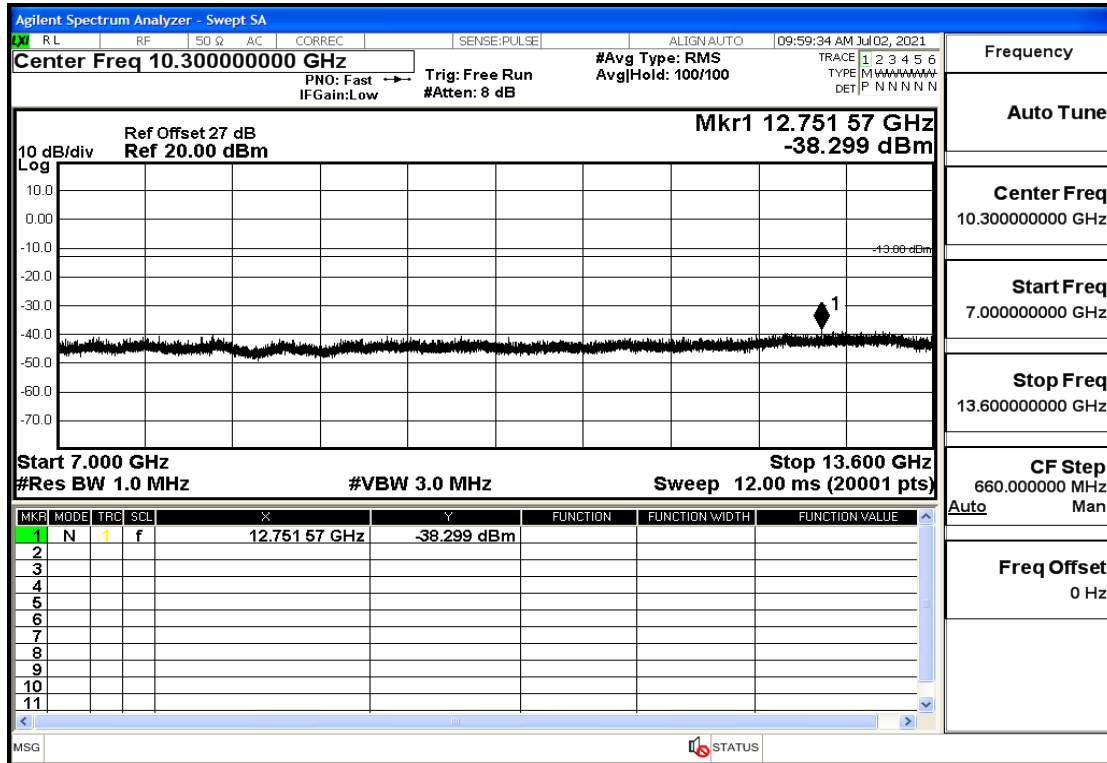
OB4-20-1732.5-QPSK-1#HIGH@30mHz-1GHz@Pass



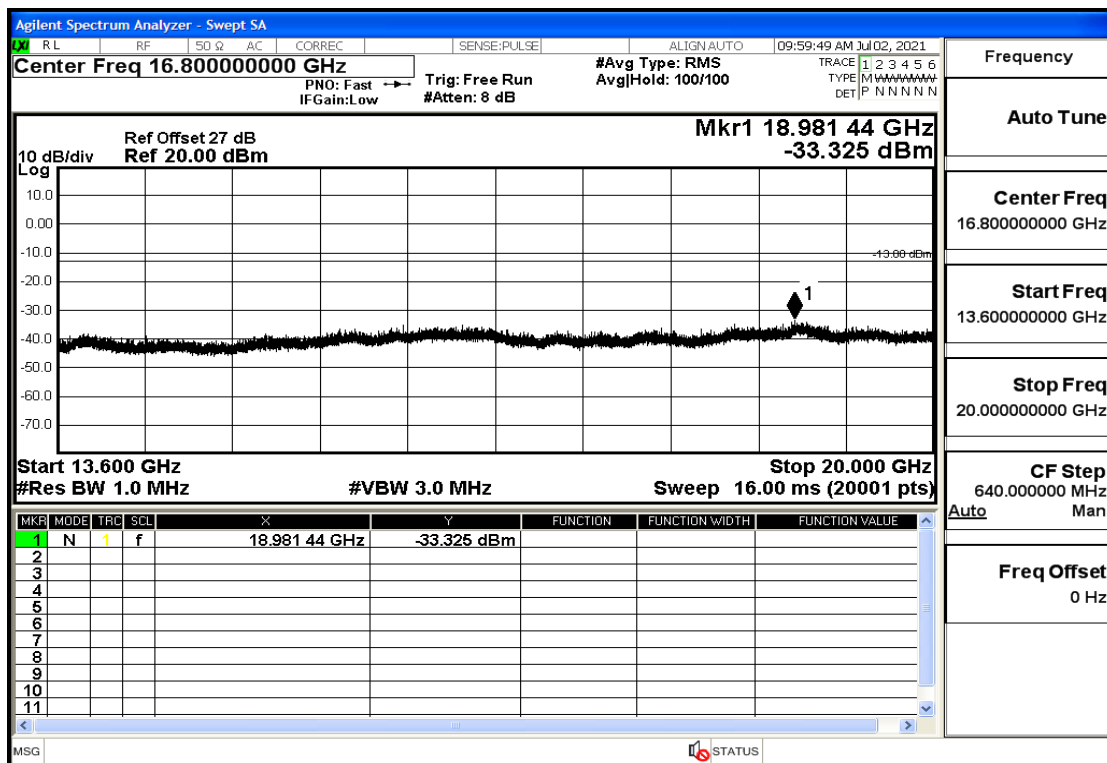
OB4-20-1732.5-QPSK-1#HIGH@1GHz-7GHz@Pass



OB4-20-1732.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass

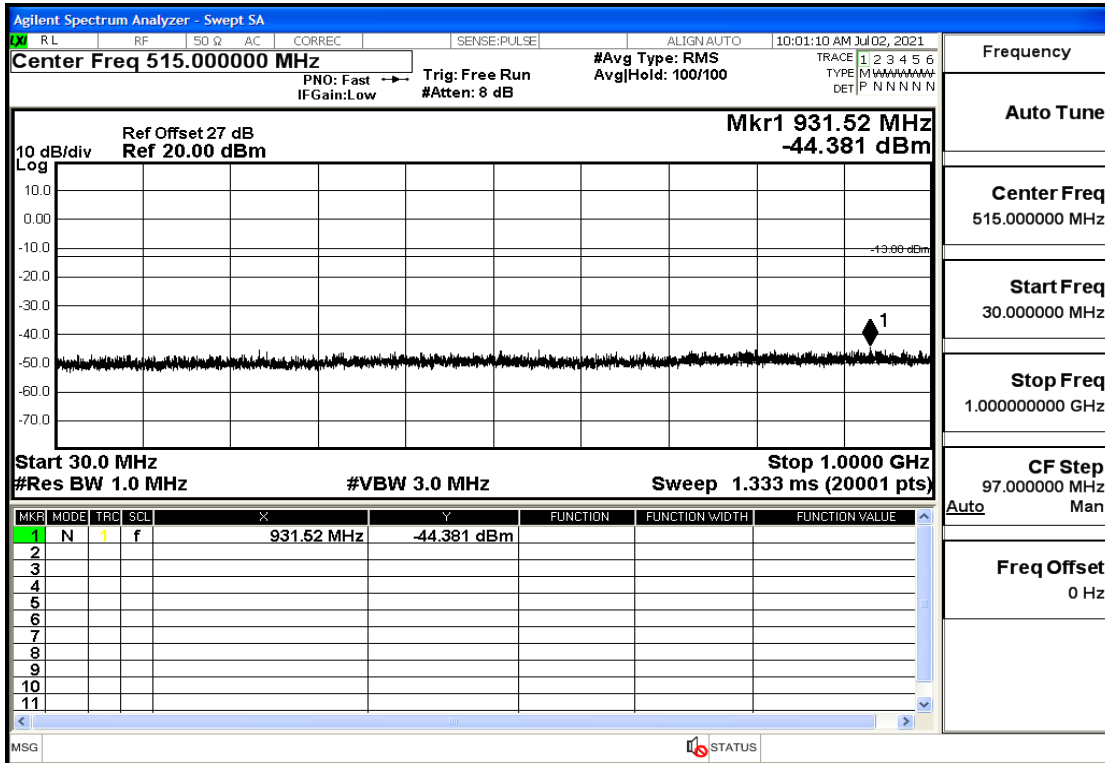


OB4-20-1732.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass

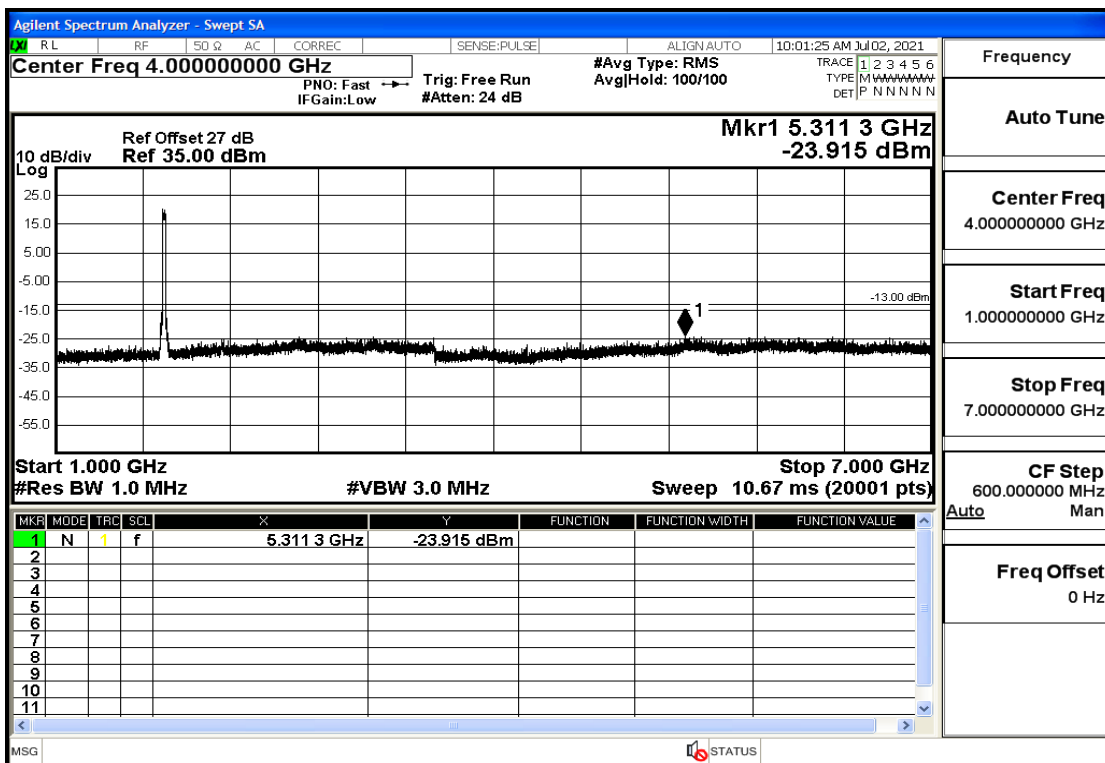




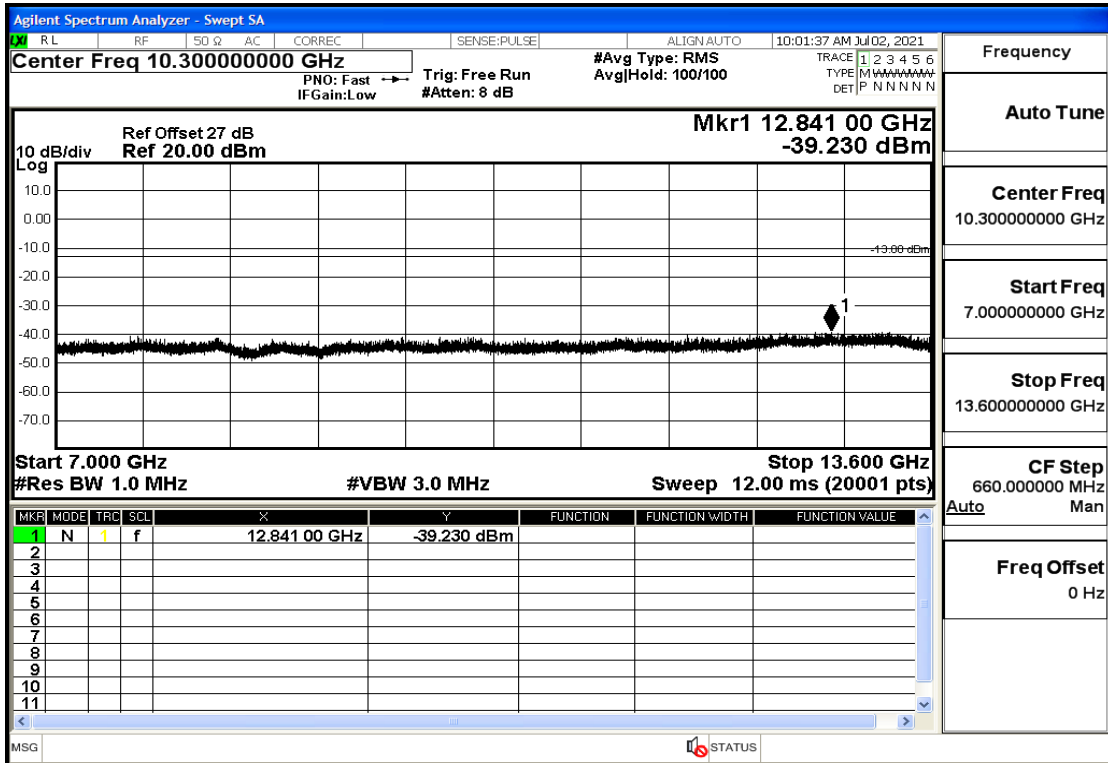
OB4-20-1745-QPSK-100#LOW@30mHz-1GHz@Pass



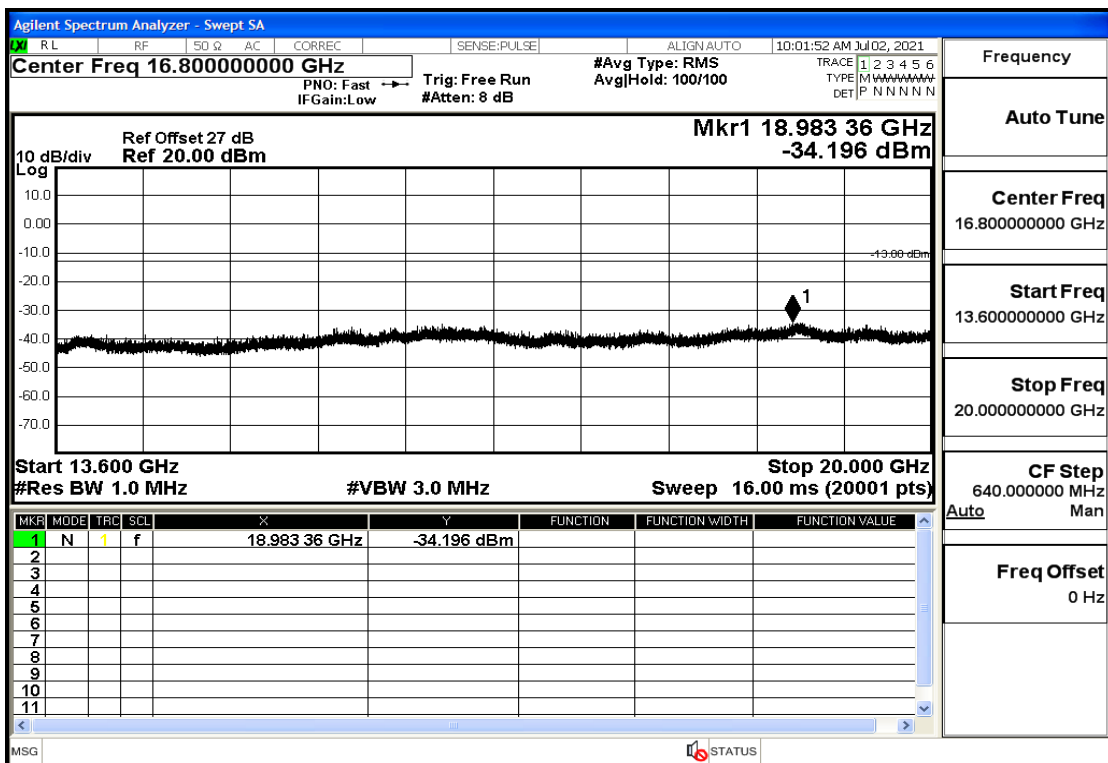
OB4-20-1745-QPSK-100#LOW@1GHz-7GHz@Pass



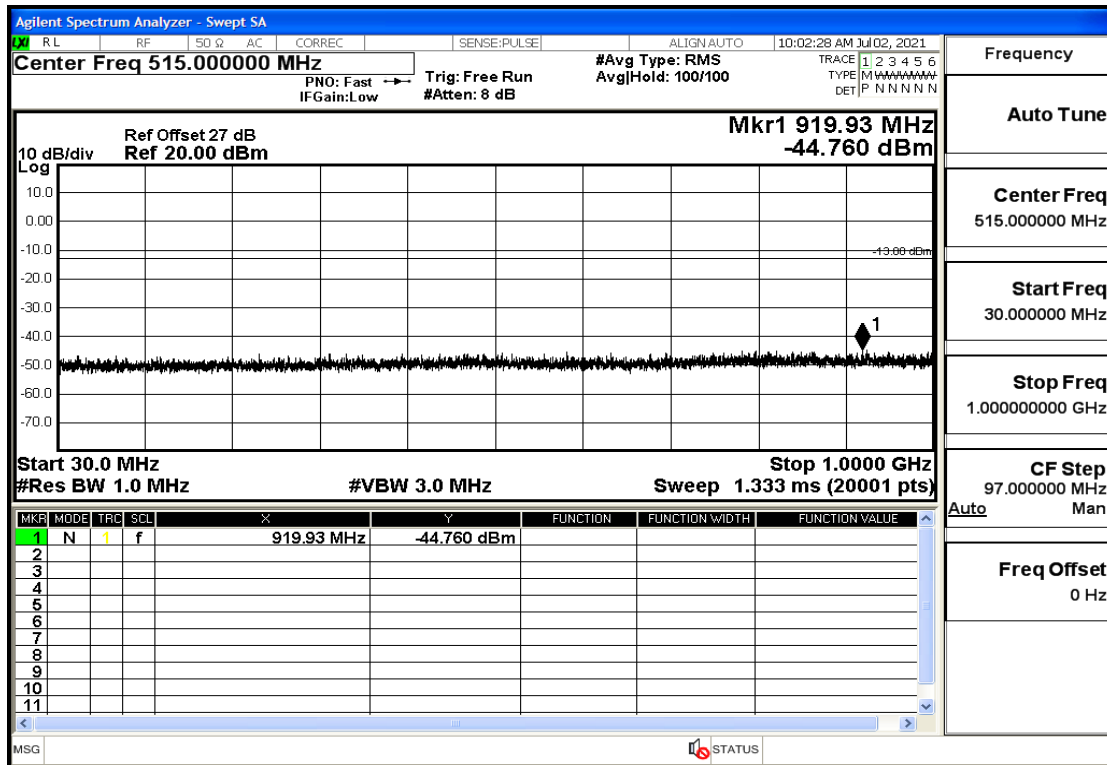
OB4-20-1745-QPSK-100#LOW@7GHz-13.6GHz@Pass



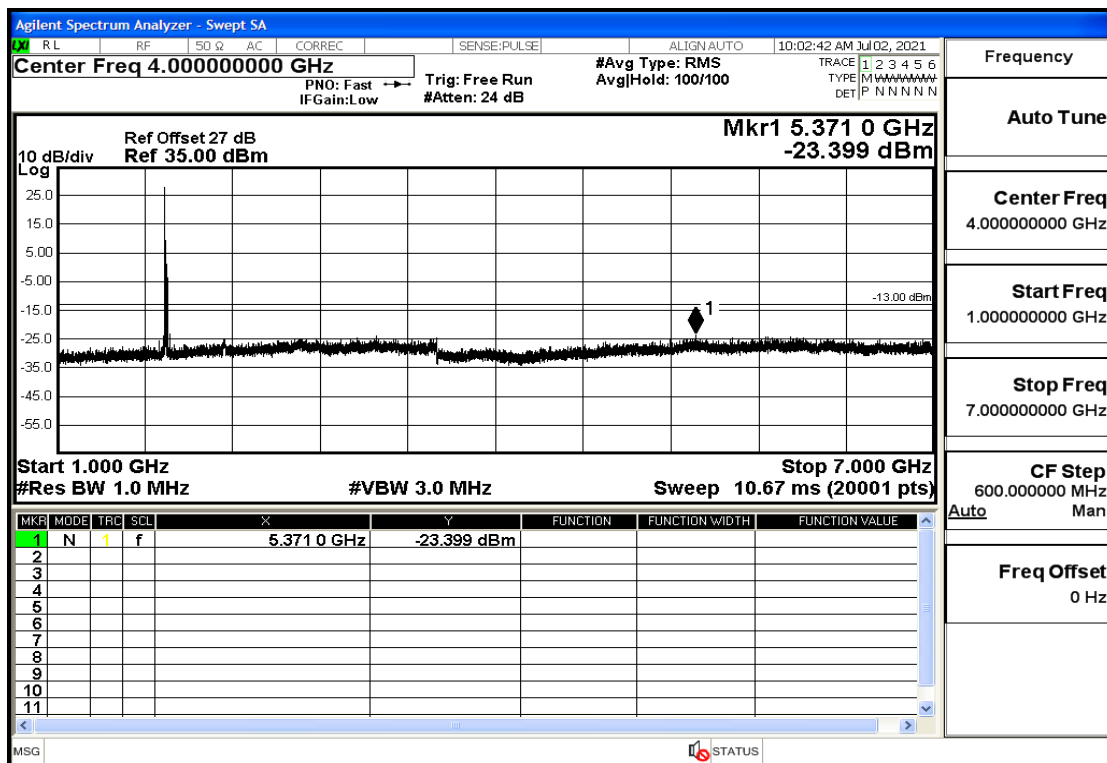
OB4-20-1745-QPSK-100#LOW@13.6GHz-20GHz@Pass



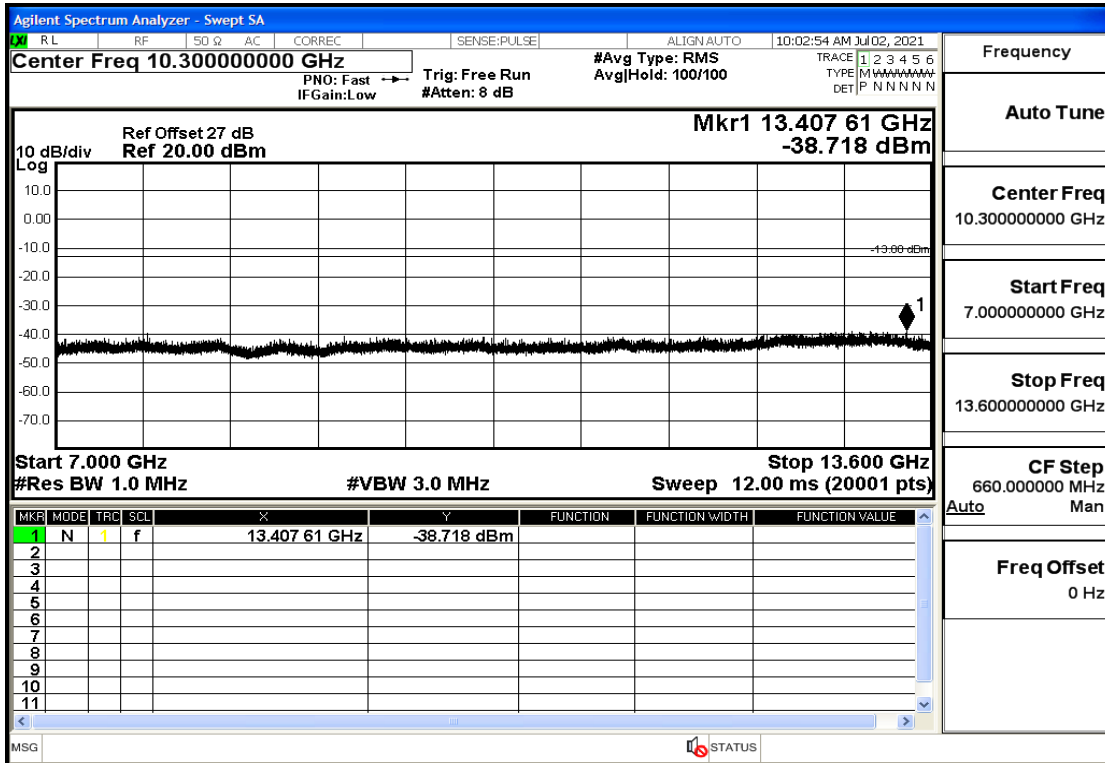
OB4-20-1745-QPSK-1#LOW@30mHz-1GHz@Pass



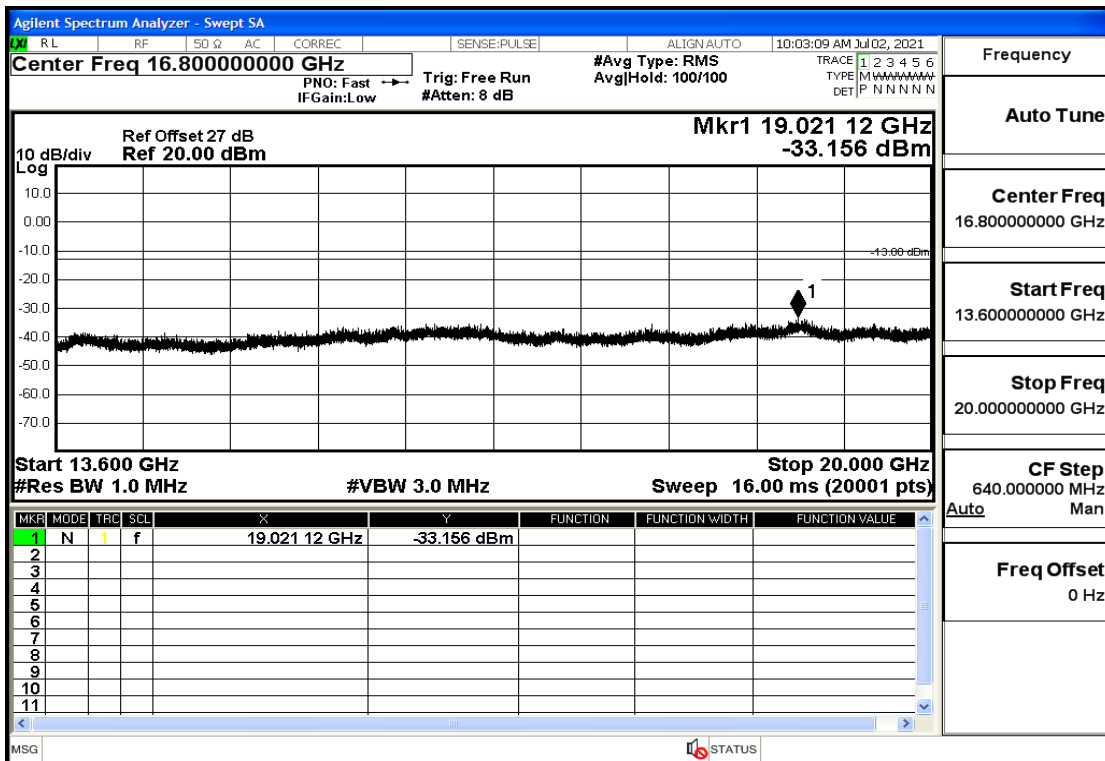
OB4-20-1745-QPSK-1#LOW@1GHz-7GHz@Pass



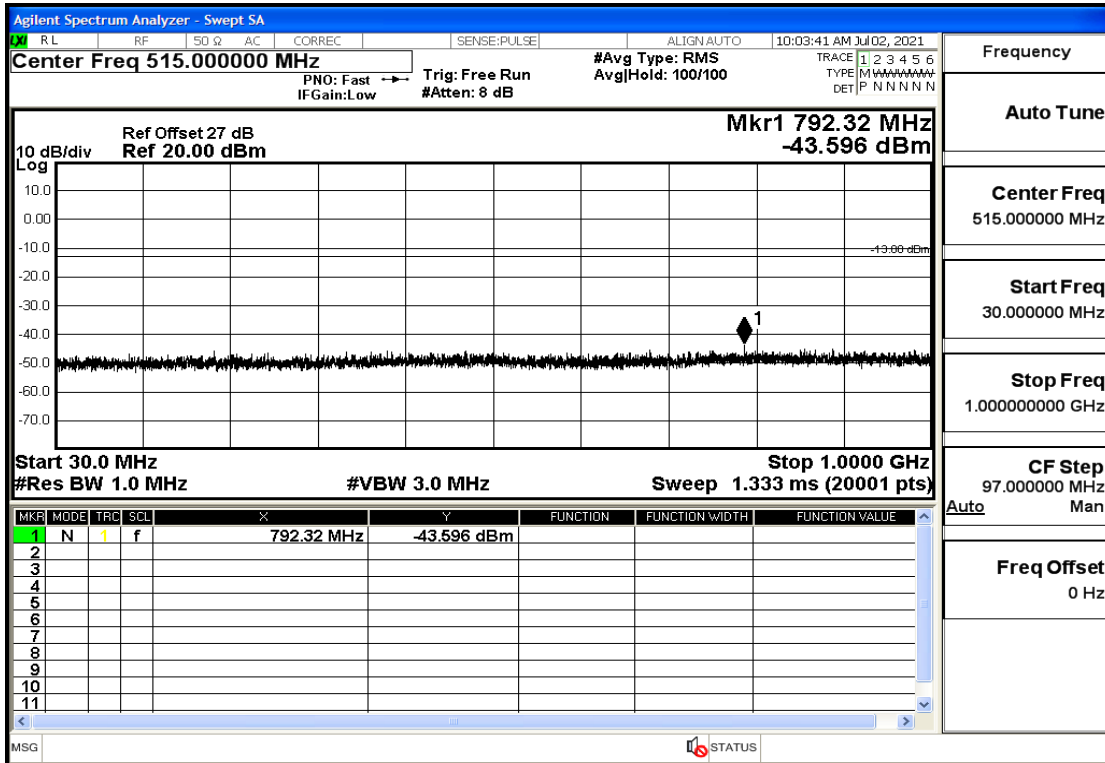
OB4-20-1745-QPSK-1#LOW@7GHz-13.6GHz@Pass



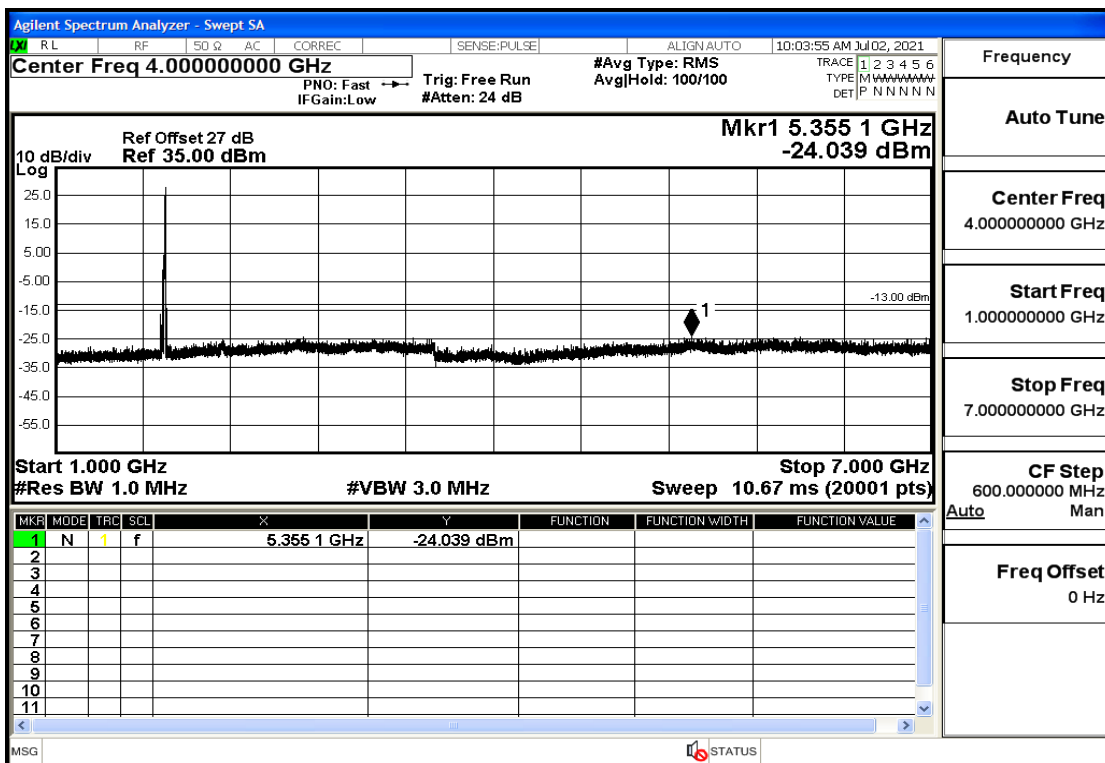
OB4-20-1745-QPSK-1#LOW@13.6GHz-20GHz@Pass



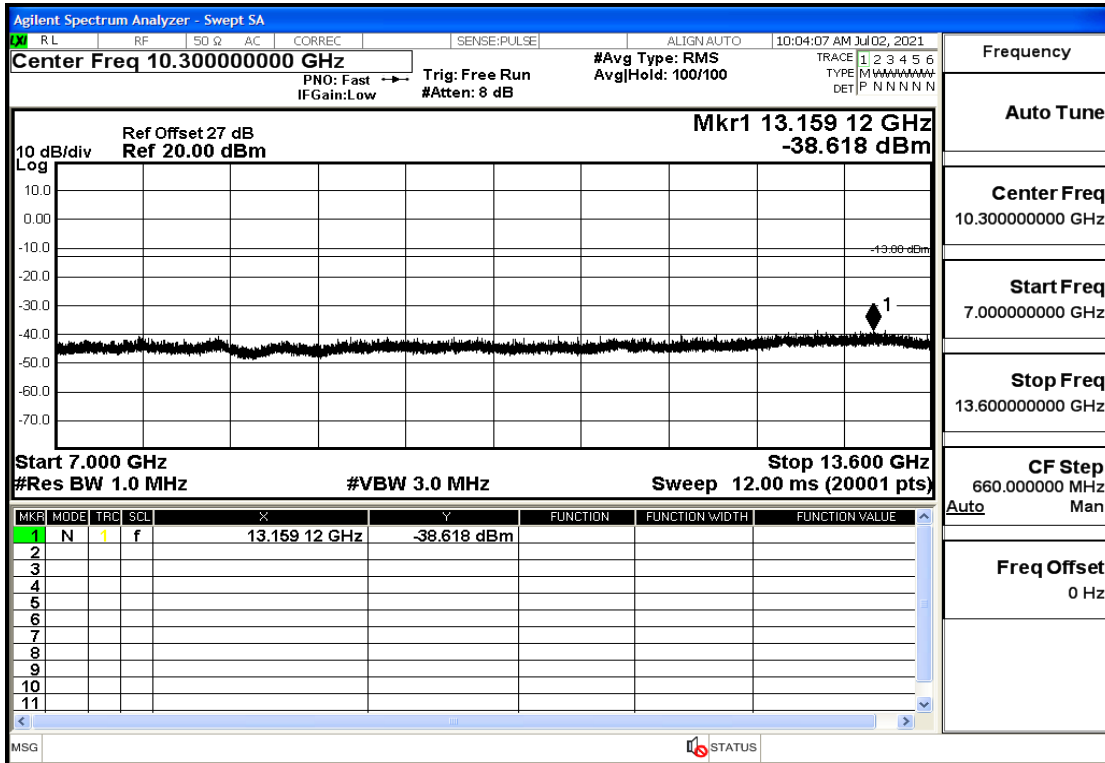
OB4-20-1745-QPSK-1#HIGH@30mHz-1GHz@Pass



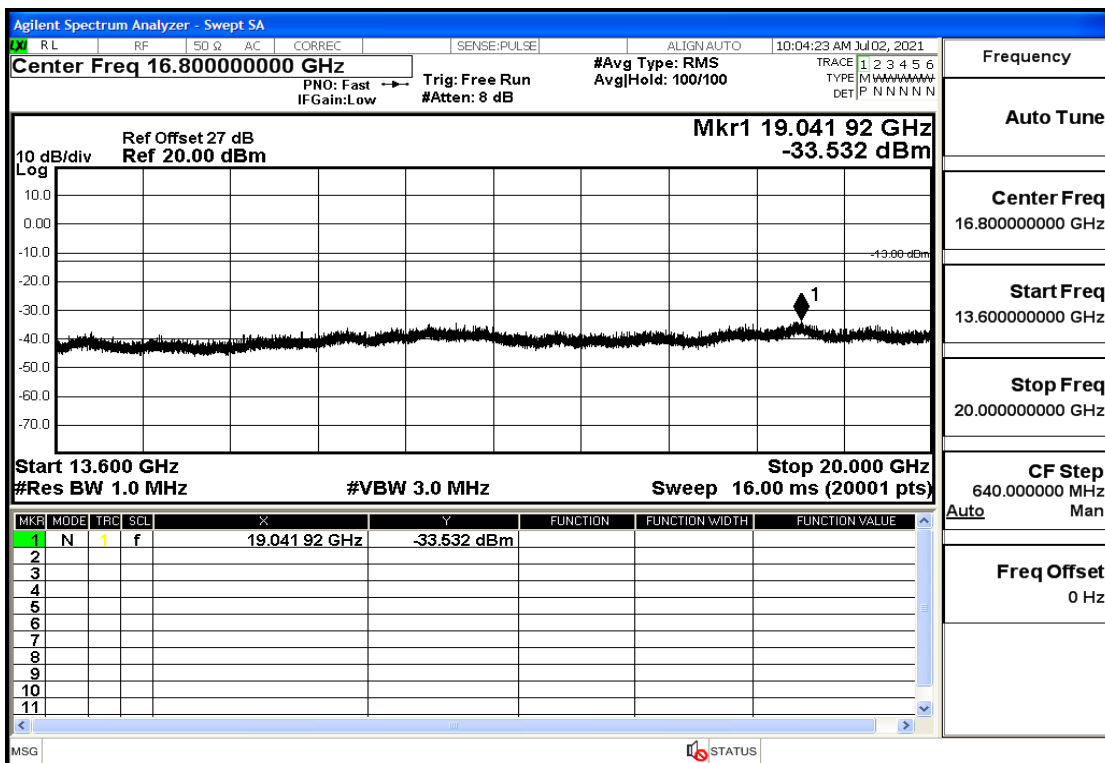
OB4-20-1745-QPSK-1#HIGH@1GHz-7GHz@Pass



OB4-20-1745-QPSK-1#HIGH@7GHz-13.6GHz@Pass



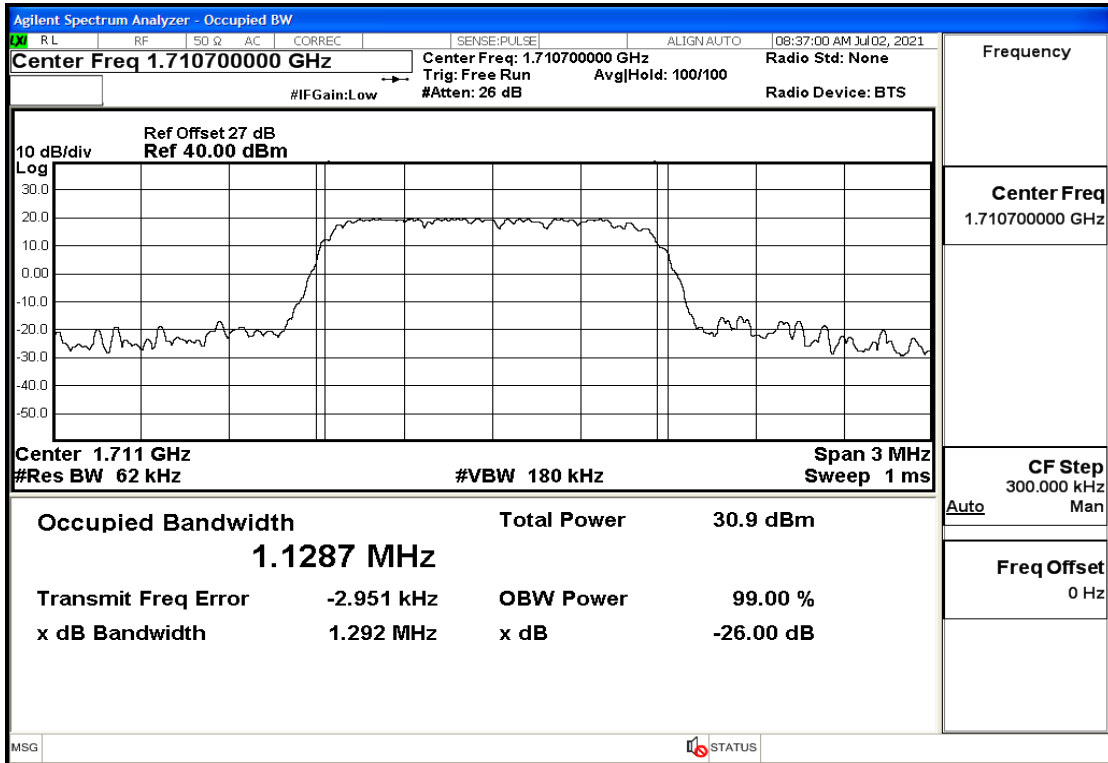
OB4-20-1745-QPSK-1#HIGH@13.6GHz-20GHz@Pass



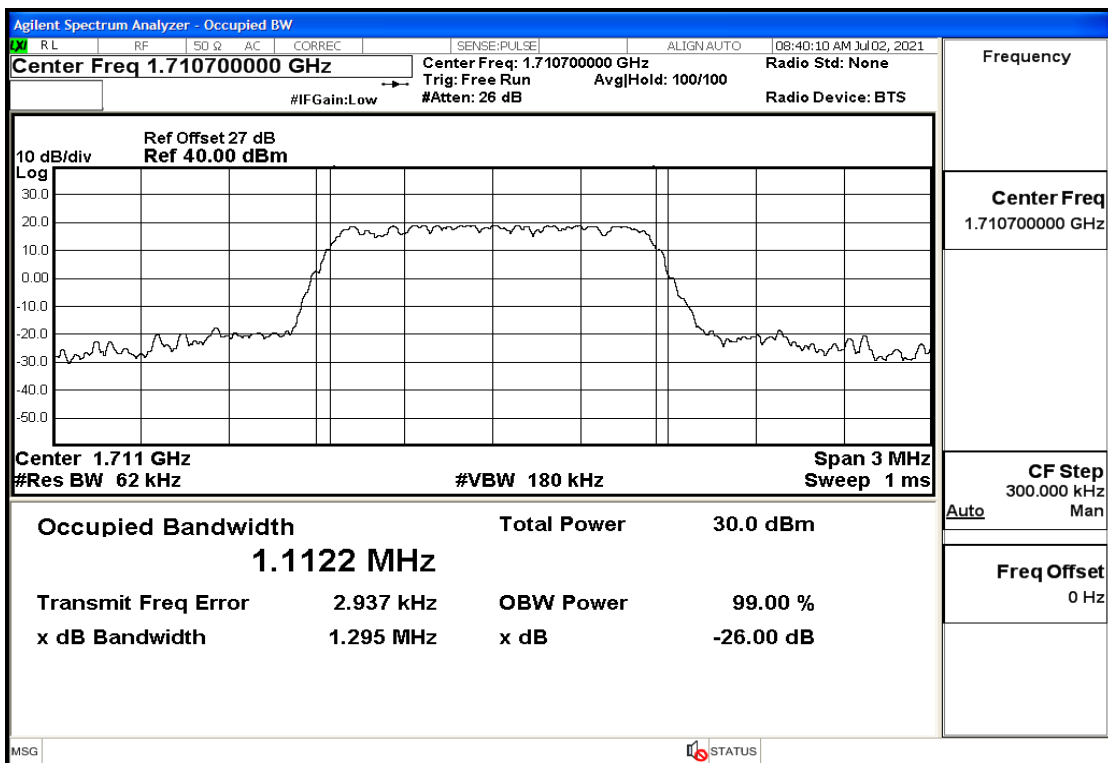
### Emission bandwidth and OBW

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	1128.7	1292	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1112.2	1295	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1104.7	1278	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1115.1	1284	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1117.2	1295	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1118.6	1288	No limit
Band4	3	1711.5	QPSK	15	LOW	2753	3096	No limit
Band4	3	1711.5	16QAM	15	LOW	2748.2	3075	No limit
Band4	3	1732.5	QPSK	15	LOW	2747.4	3070	No limit
Band4	3	1732.5	16QAM	15	LOW	2761.3	3126	No limit
Band4	3	1753.5	QPSK	15	LOW	2743.1	3076	No limit
Band4	3	1753.5	16QAM	15	LOW	2744.7	3057	No limit
Band4	5	1712.5	QPSK	25	LOW	4585	5061	No limit
Band4	5	1712.5	16QAM	25	LOW	4586.1	5035	No limit
Band4	5	1732.5	QPSK	25	LOW	4560.3	5041	No limit
Band4	5	1732.5	16QAM	25	LOW	4574.3	5075	No limit
Band4	5	1752.5	QPSK	25	LOW	4580.2	5040	No limit
Band4	5	1752.5	16QAM	25	LOW	4555.7	5115	No limit
Band4	10	1715	QPSK	50	LOW	9097.4	10140	No limit
Band4	10	1715	16QAM	50	LOW	9080.4	10090	No limit
Band4	10	1732.5	QPSK	50	LOW	9108.7	10060	No limit
Band4	10	1732.5	16QAM	50	LOW	9118.2	10110	No limit
Band4	10	1750	QPSK	50	LOW	9139.5	9875	No limit
Band4	10	1750	16QAM	50	LOW	9098.9	9898	No limit
Band4	15	1717.5	QPSK	75	LOW	13676	15410	No limit
Band4	15	1717.5	16QAM	75	LOW	13688.4	15260	No limit
Band4	15	1732.5	QPSK	75	LOW	13647	15150	No limit
Band4	15	1732.5	16QAM	75	LOW	13678	15180	No limit
Band4	15	1747.5	QPSK	75	LOW	13627	15260	No limit
Band4	15	1747.5	16QAM	75	LOW	13695	15290	No limit
Band4	20	1720	QPSK	100	LOW	18287	20060	No limit
Band4	20	1720	16QAM	100	LOW	18263	20320	No limit
Band4	20	1732.5	QPSK	100	LOW	18243	20080	No limit
Band4	20	1732.5	16QAM	100	LOW	18236	20110	No limit
Band4	20	1745	QPSK	100	LOW	18284	20320	No limit
Band4	20	1745	16QAM	100	LOW	18249	20120	No limit

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

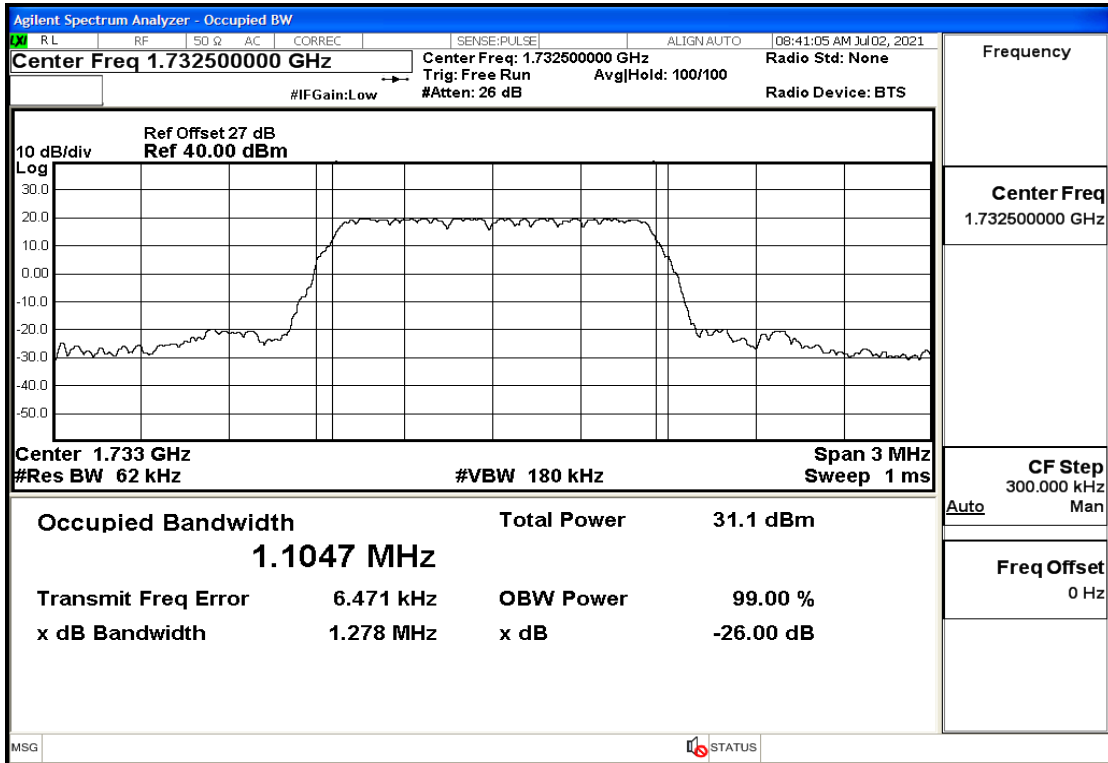


Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth

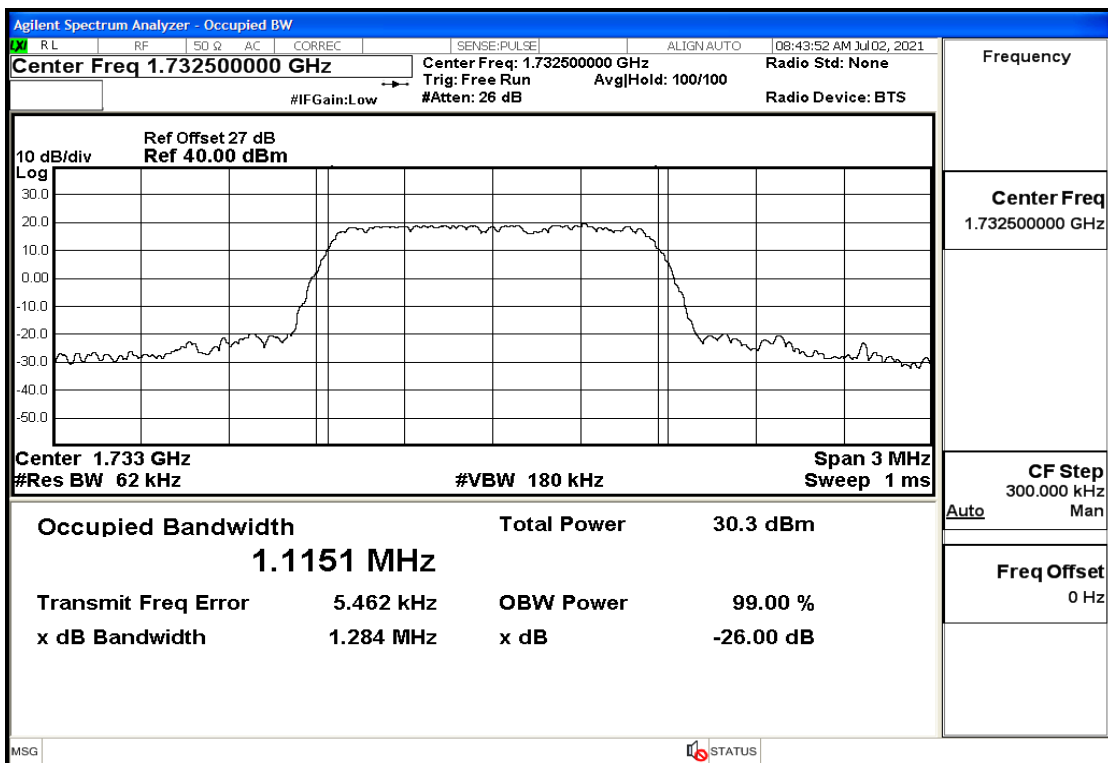




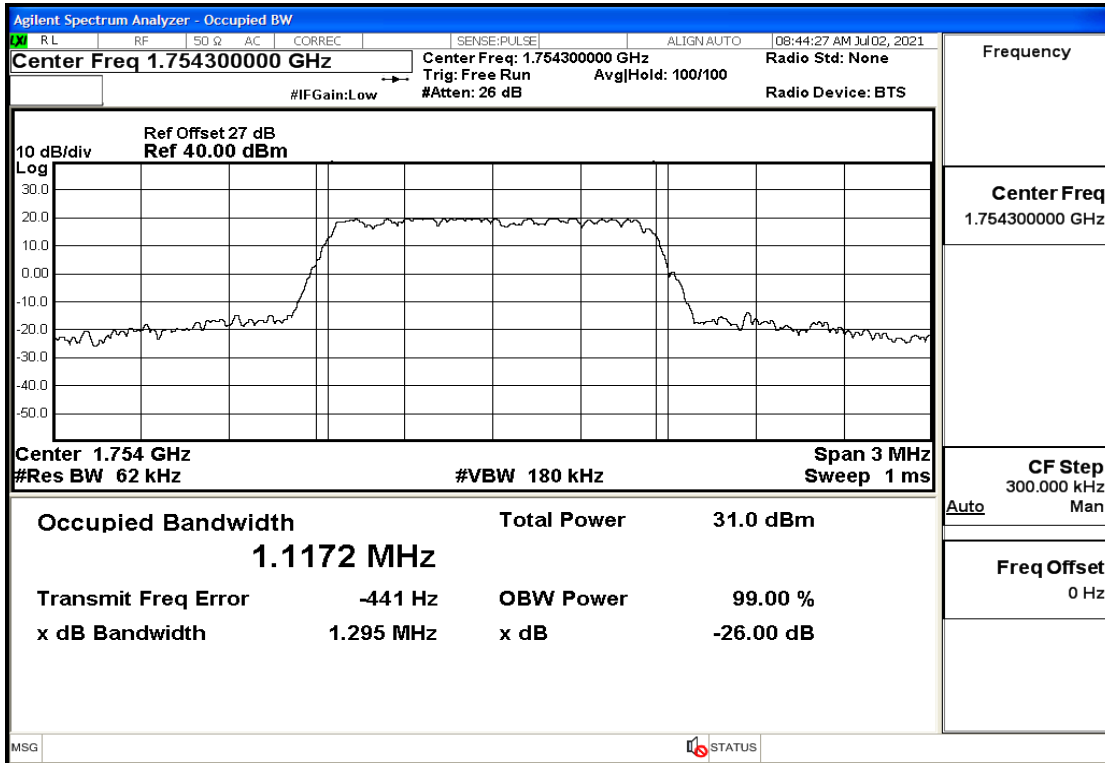
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



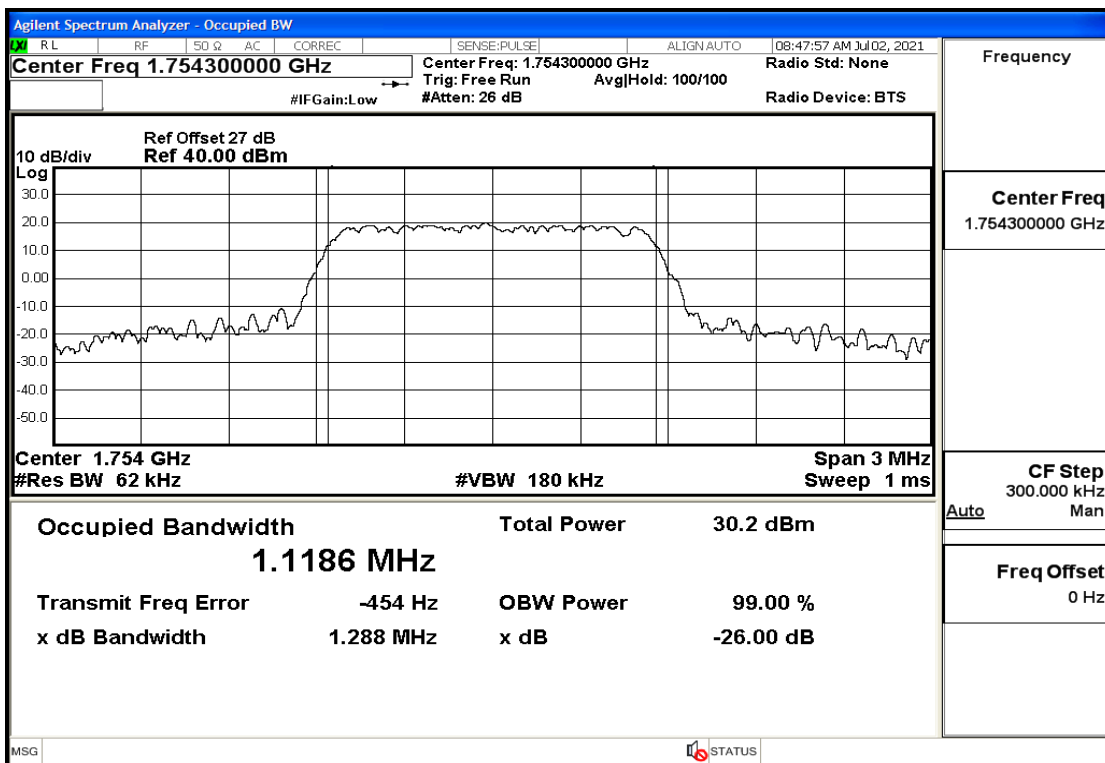
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



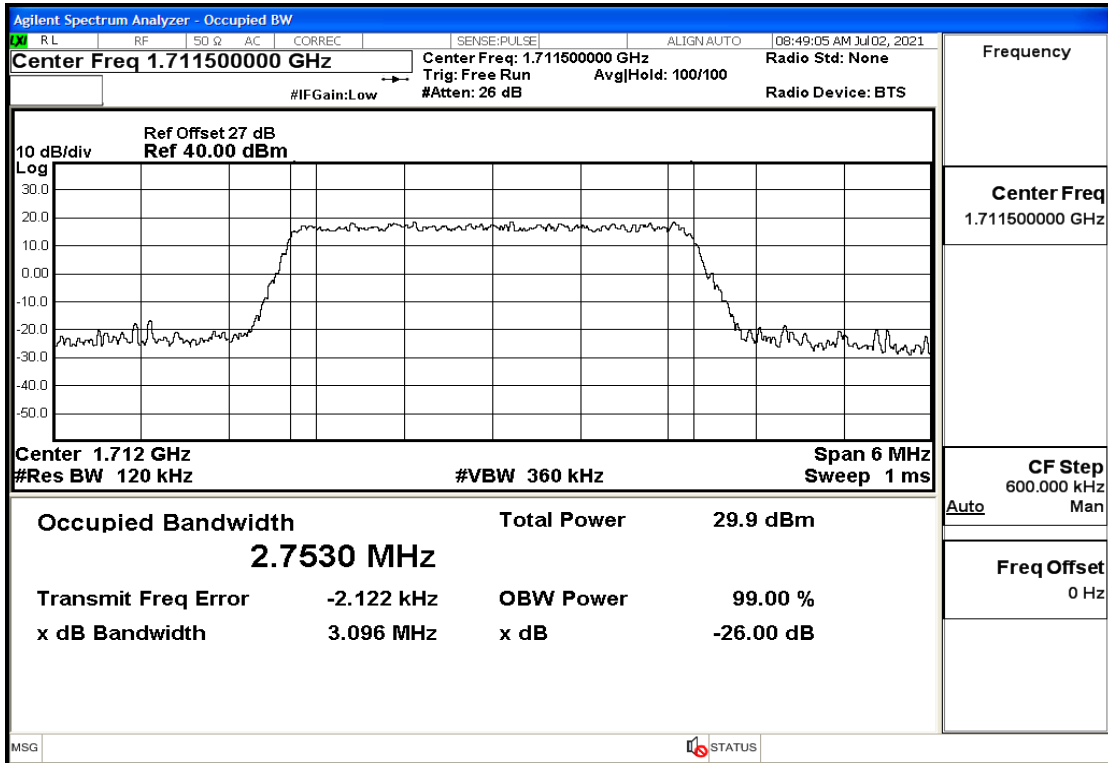
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



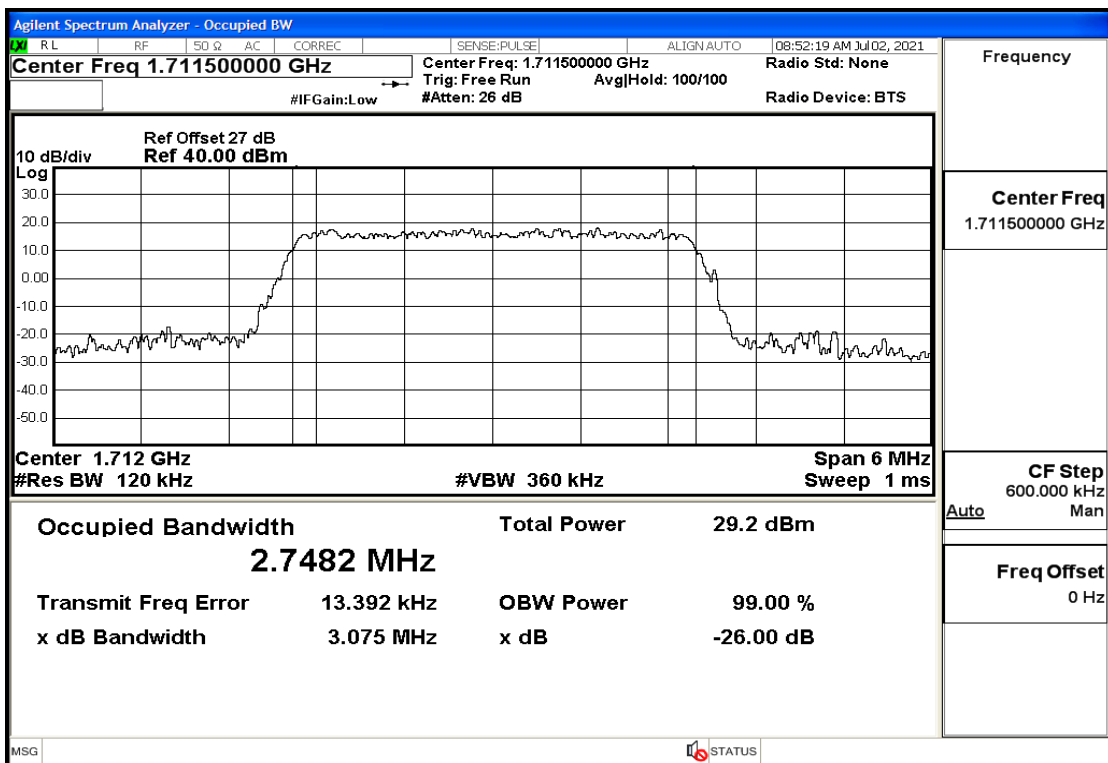
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



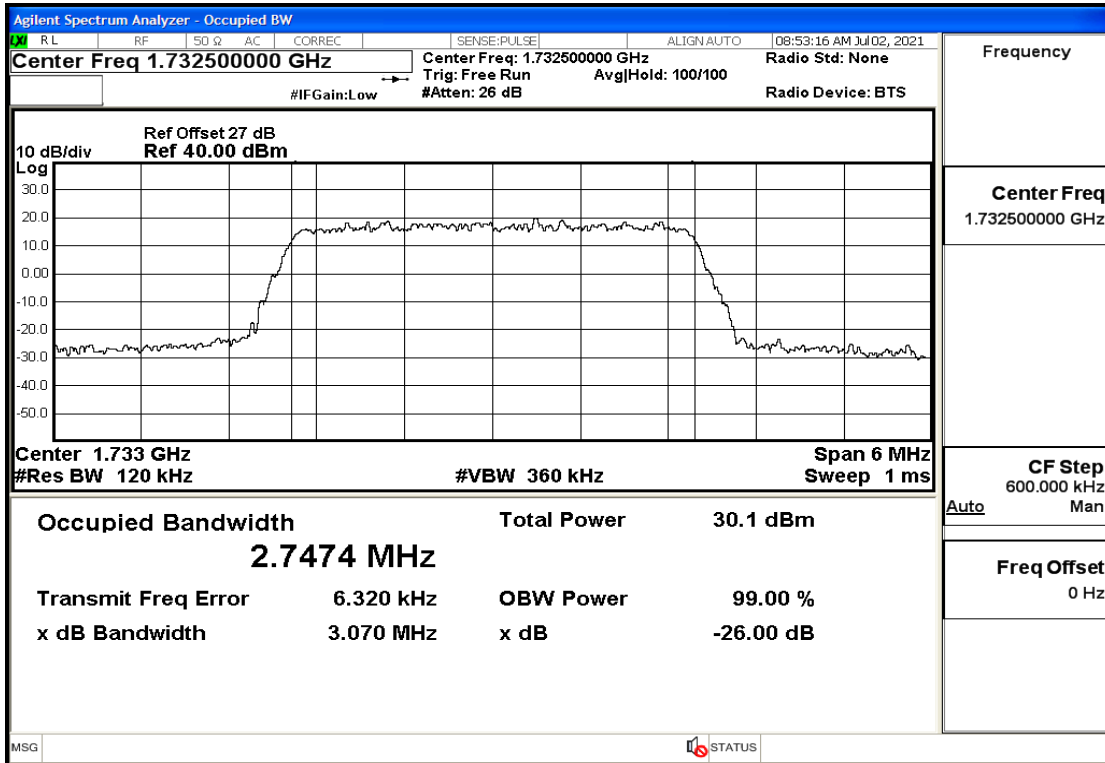
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



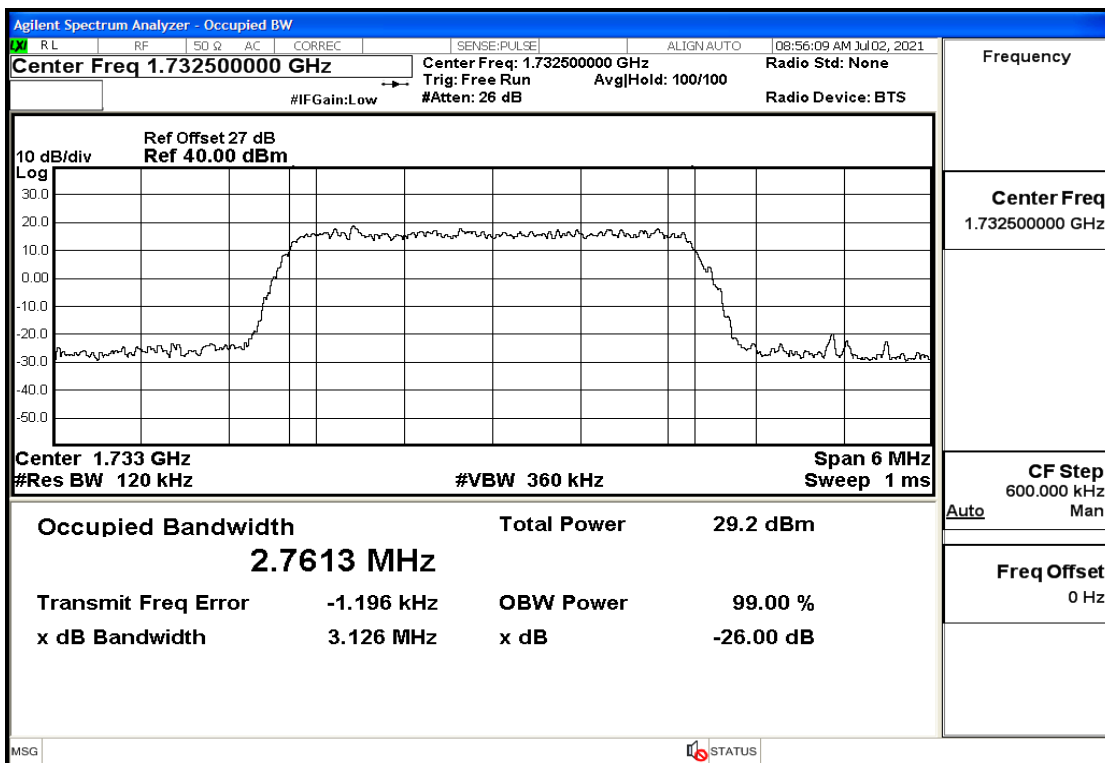
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



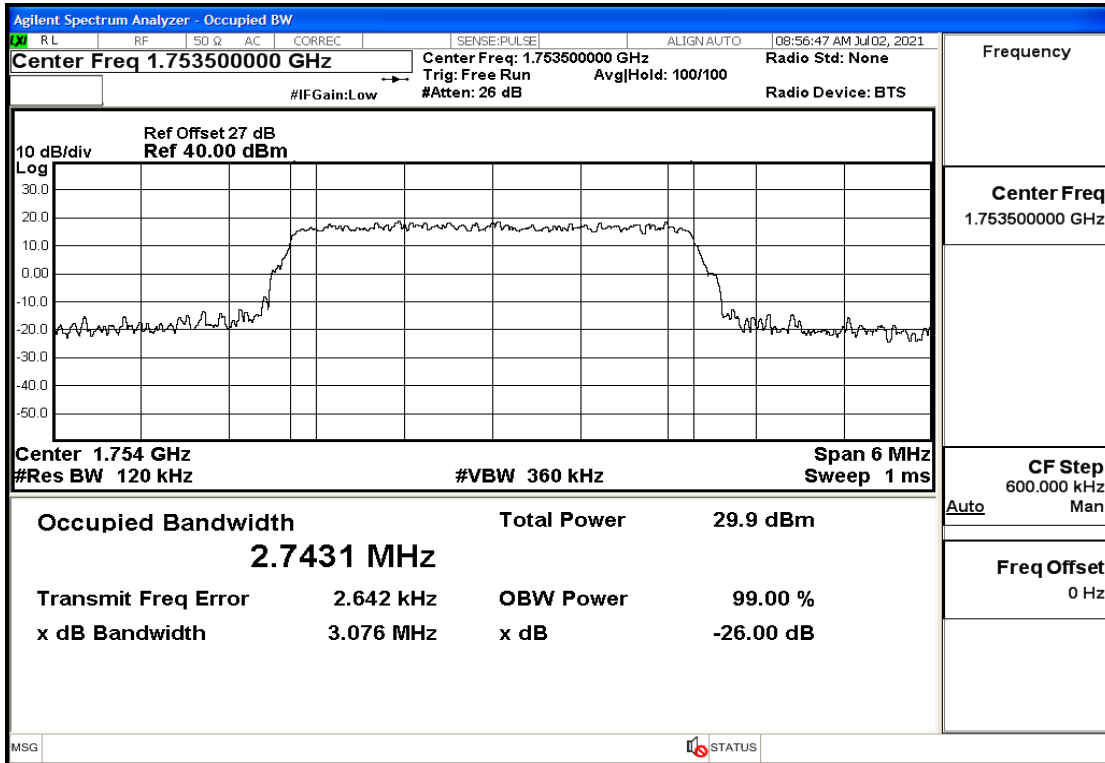
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



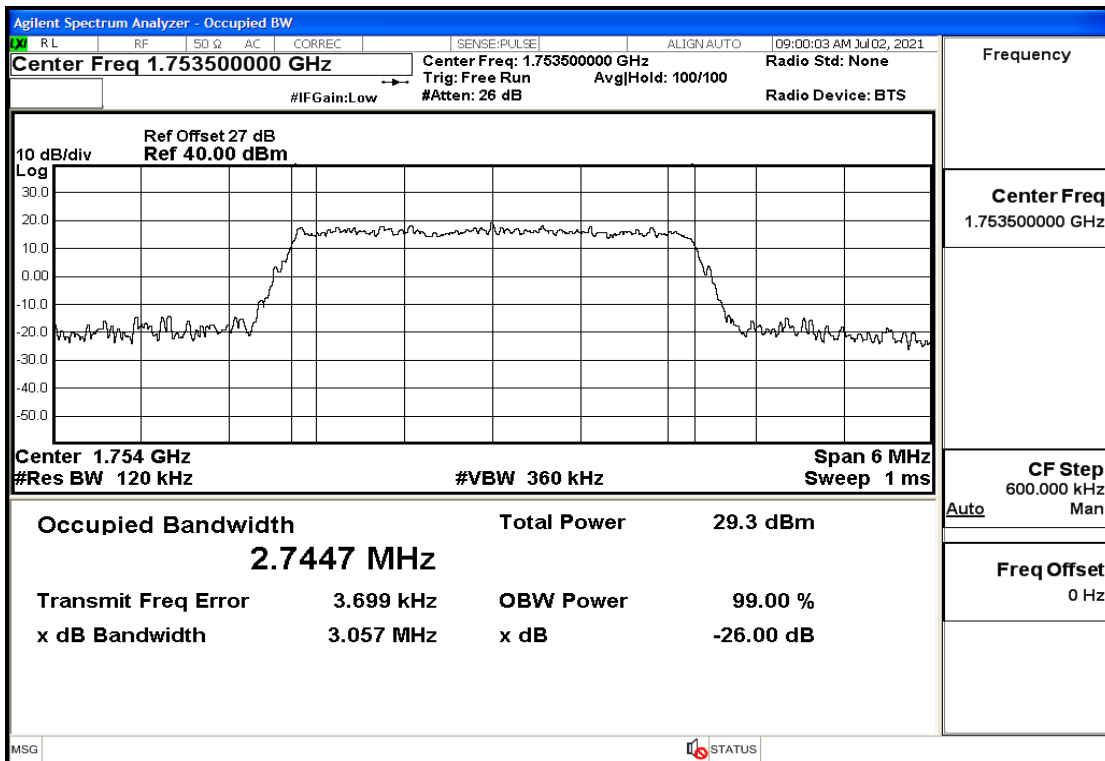
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



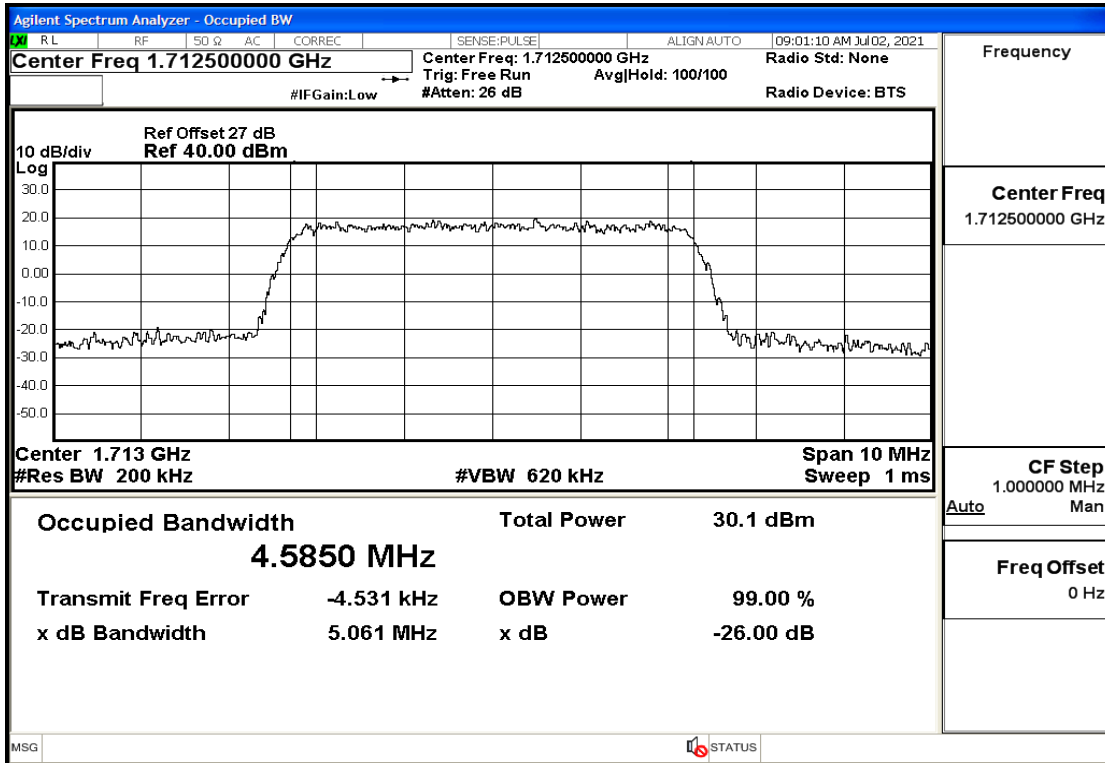
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



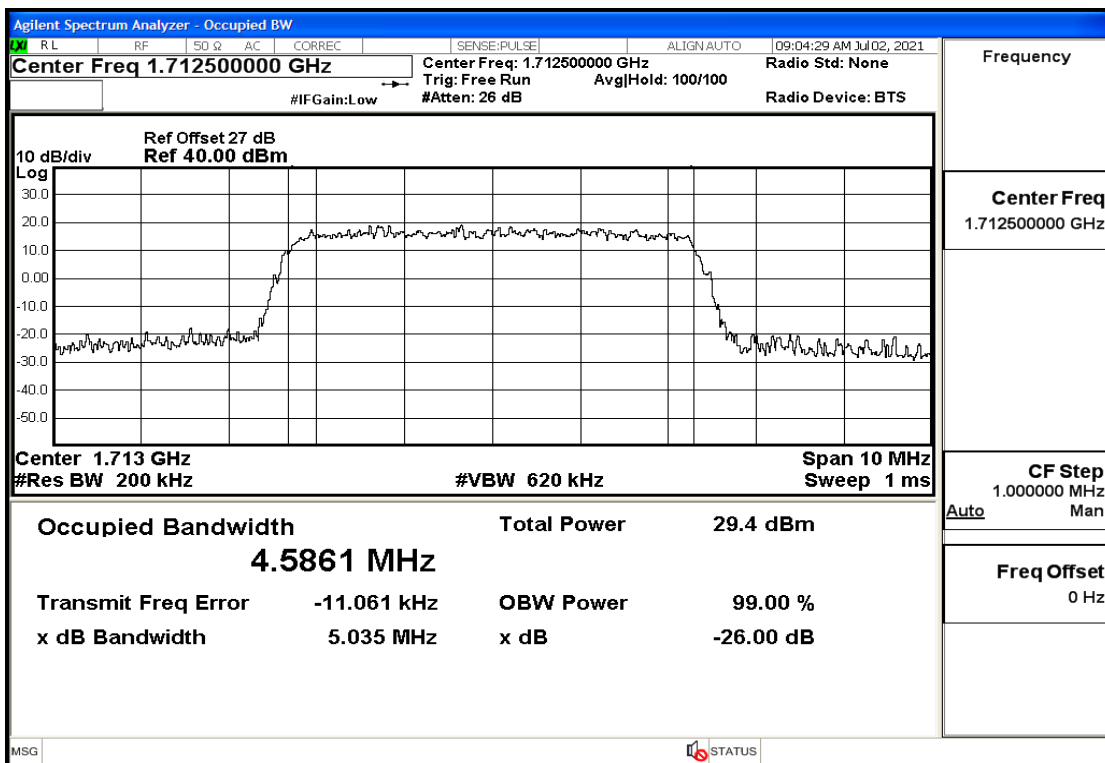
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



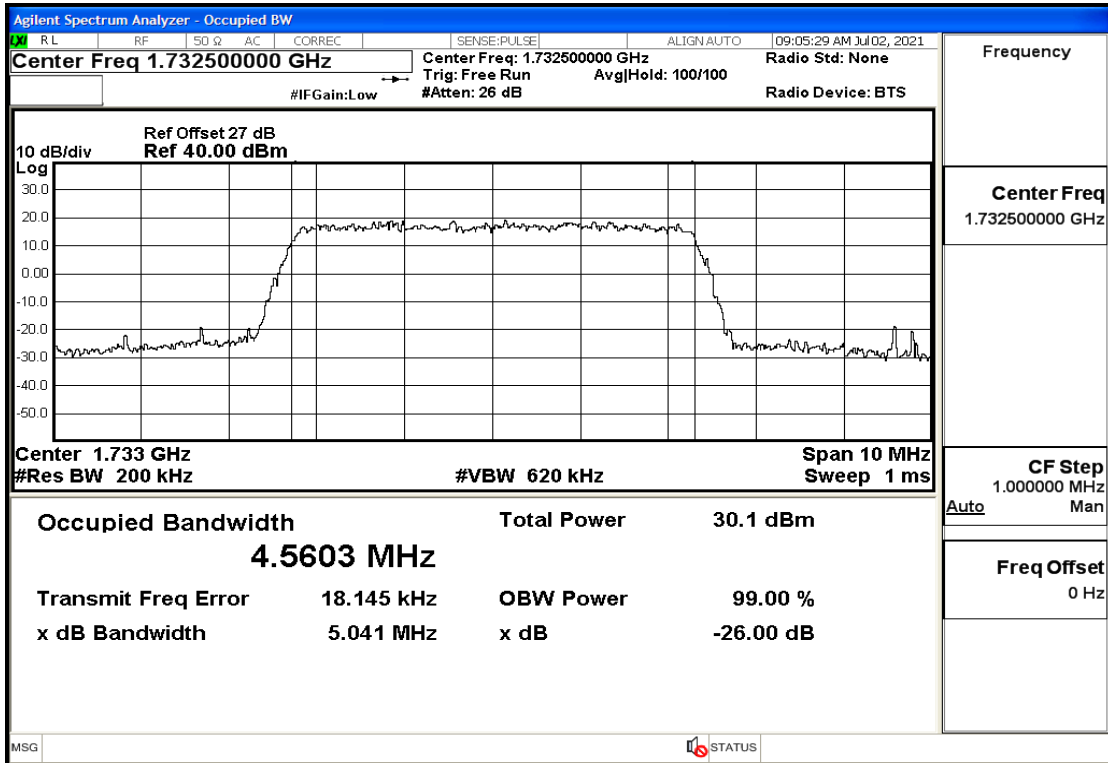
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



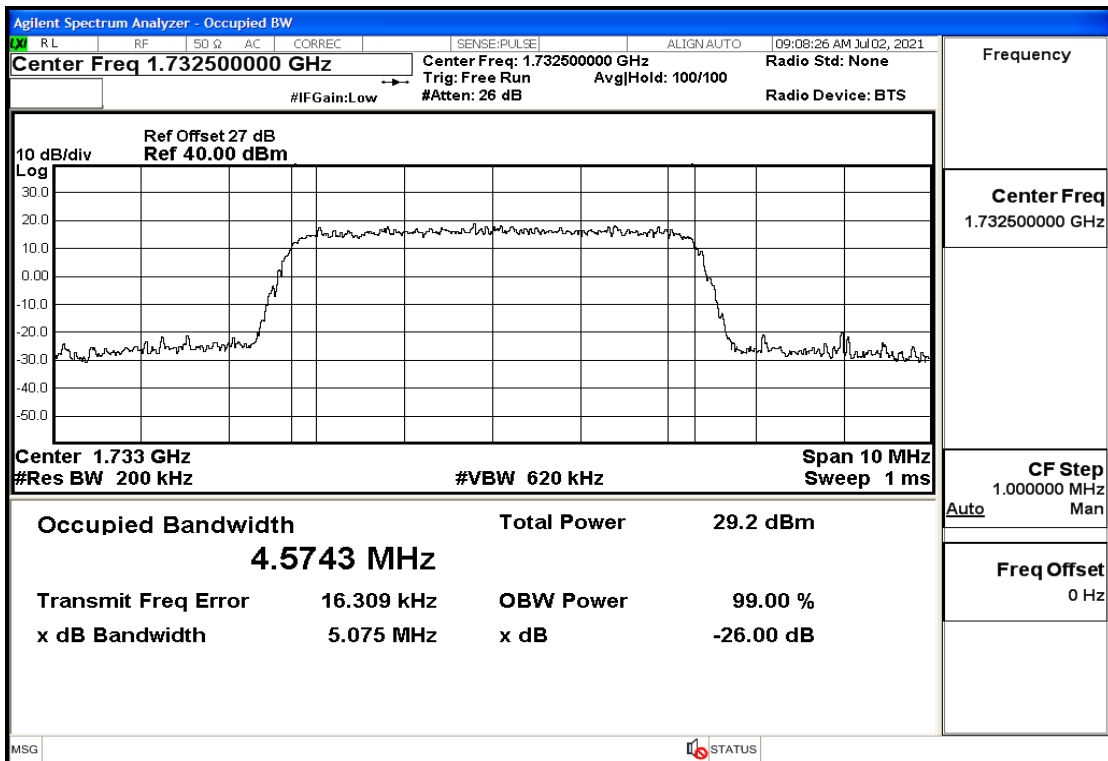
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



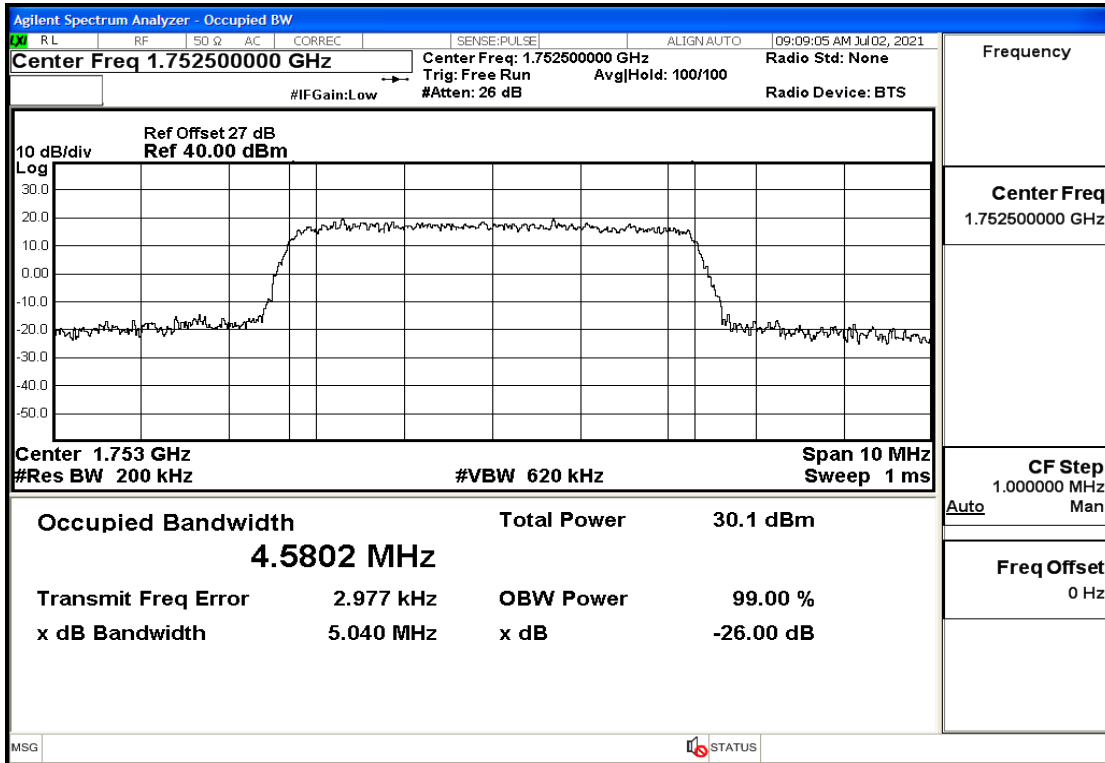
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



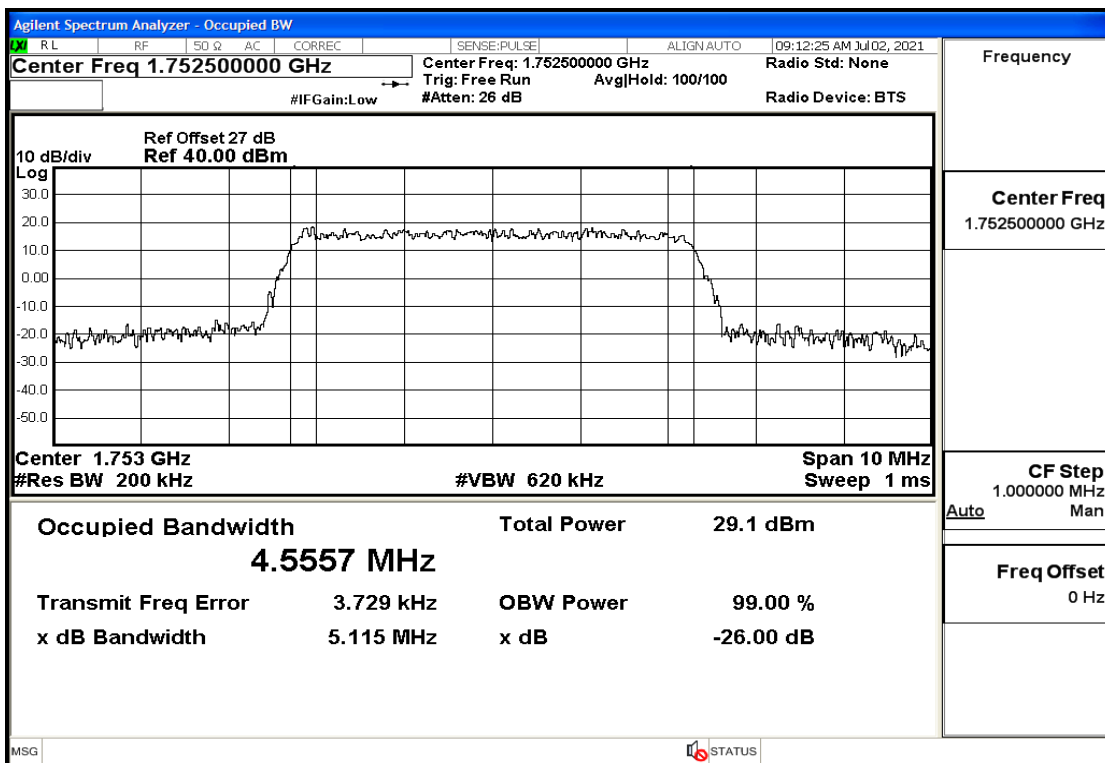
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



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

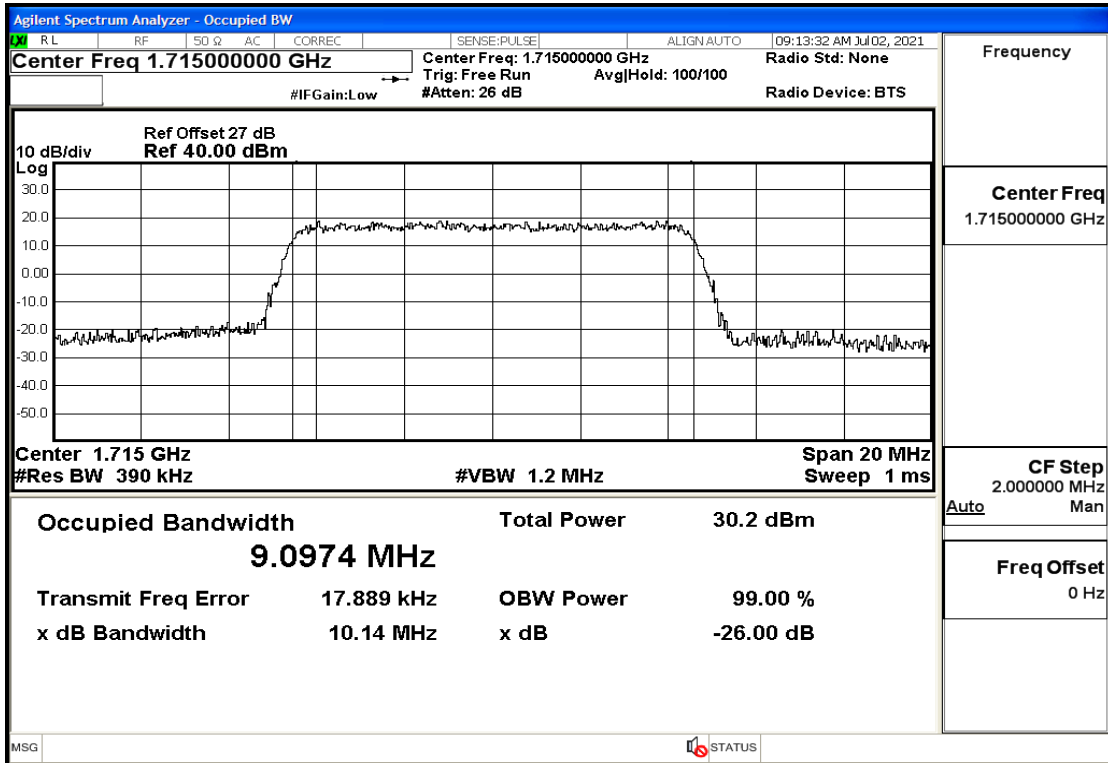


Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth

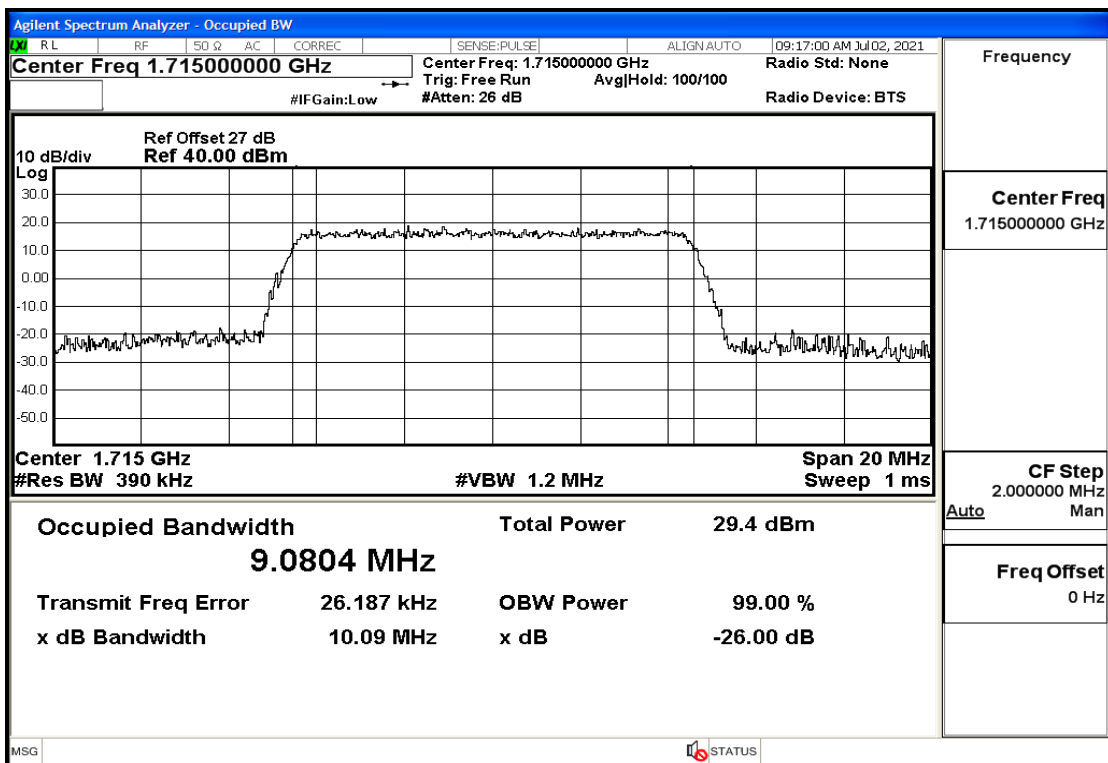




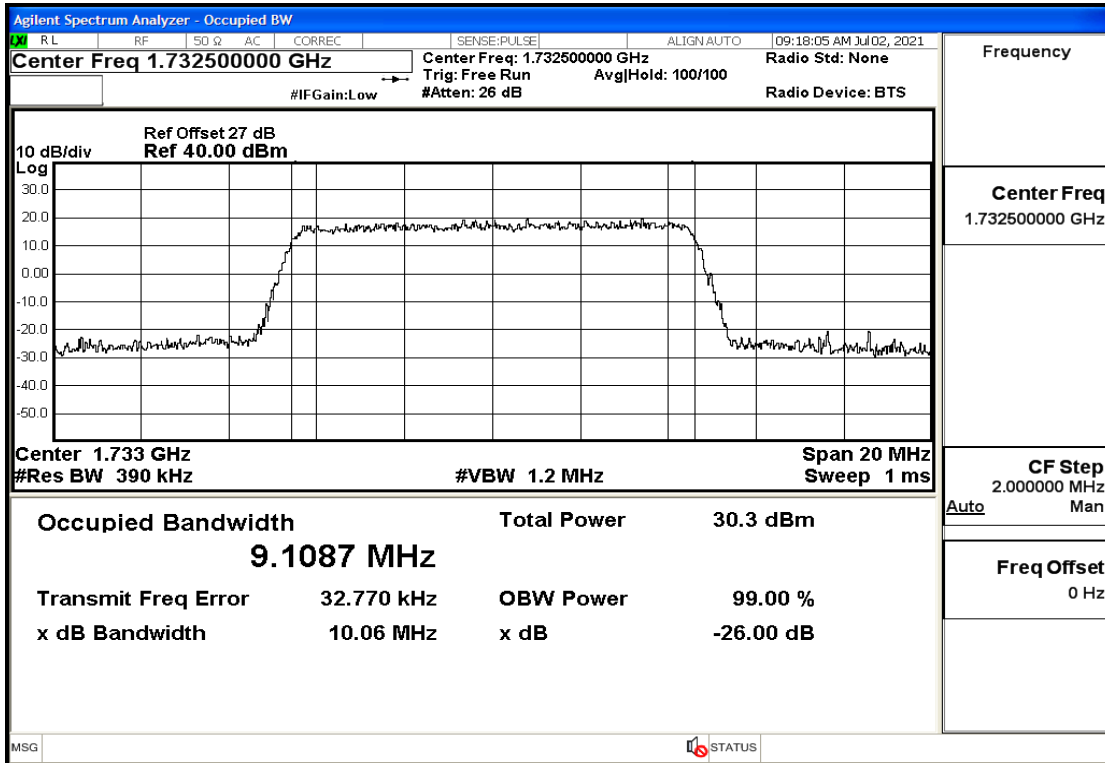
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



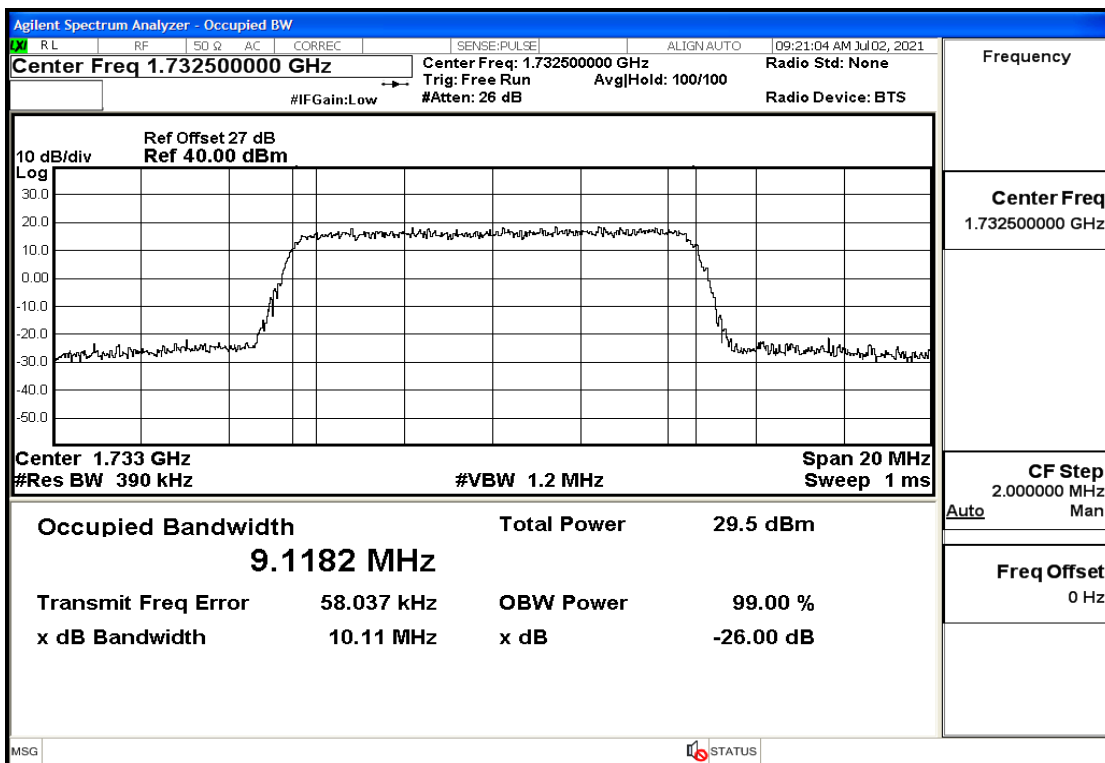
Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth



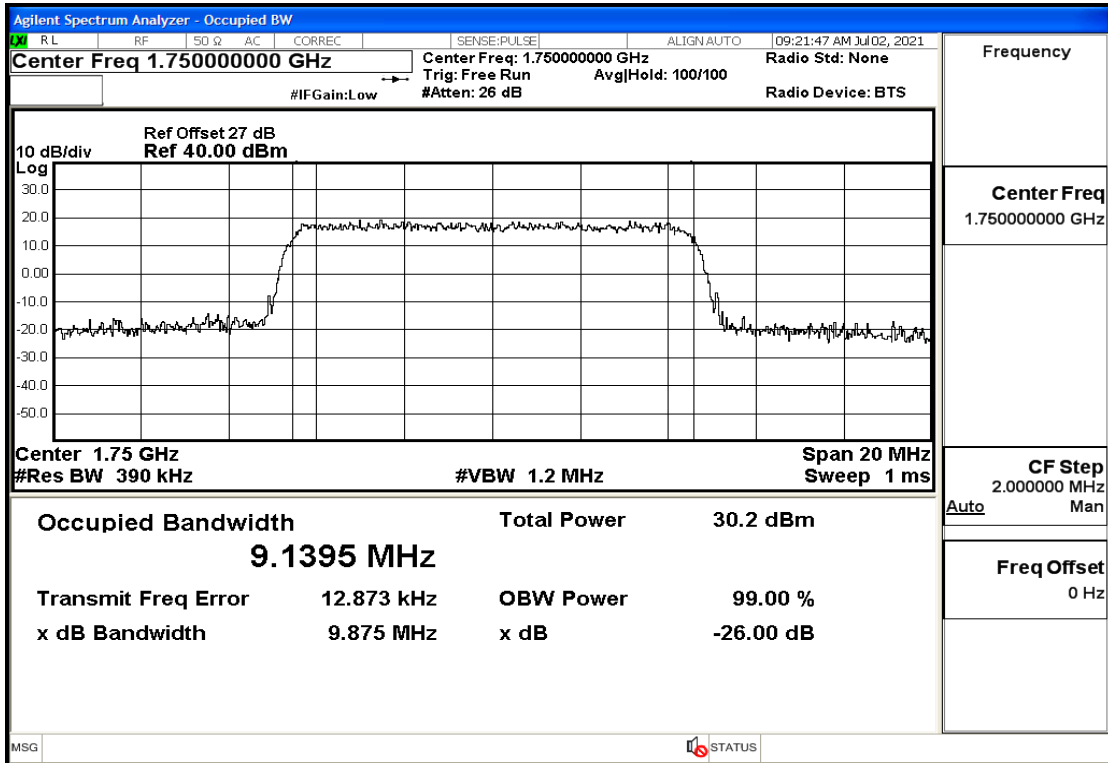
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



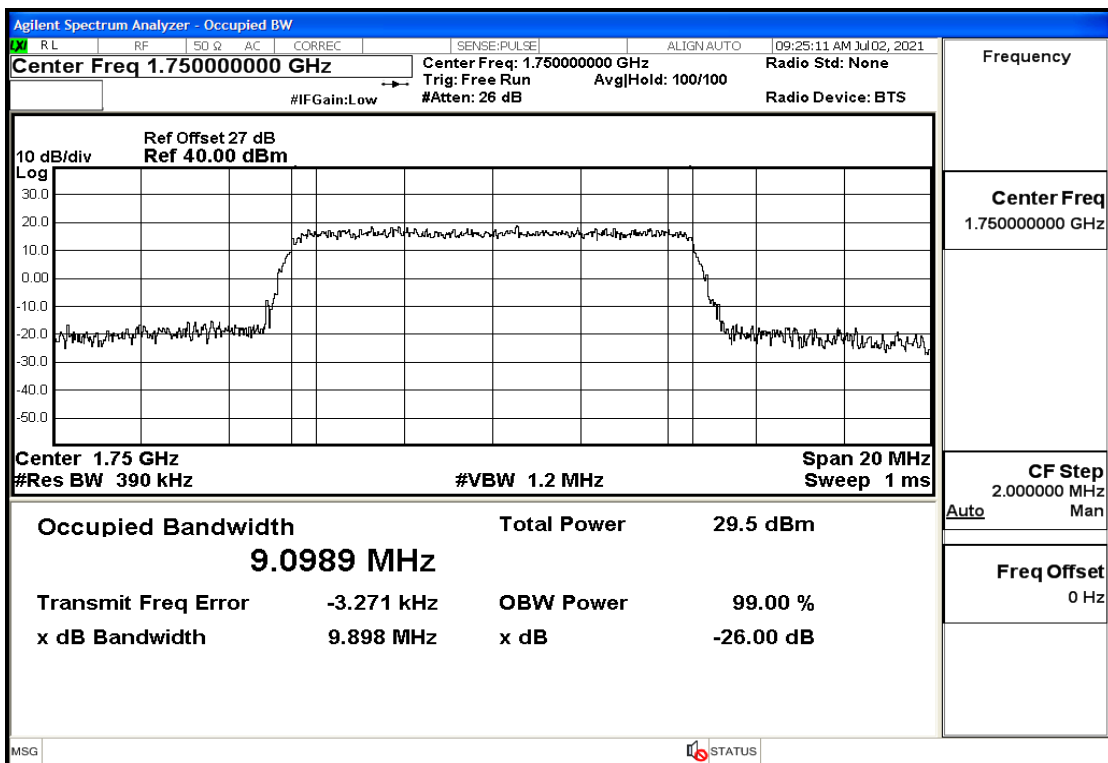
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



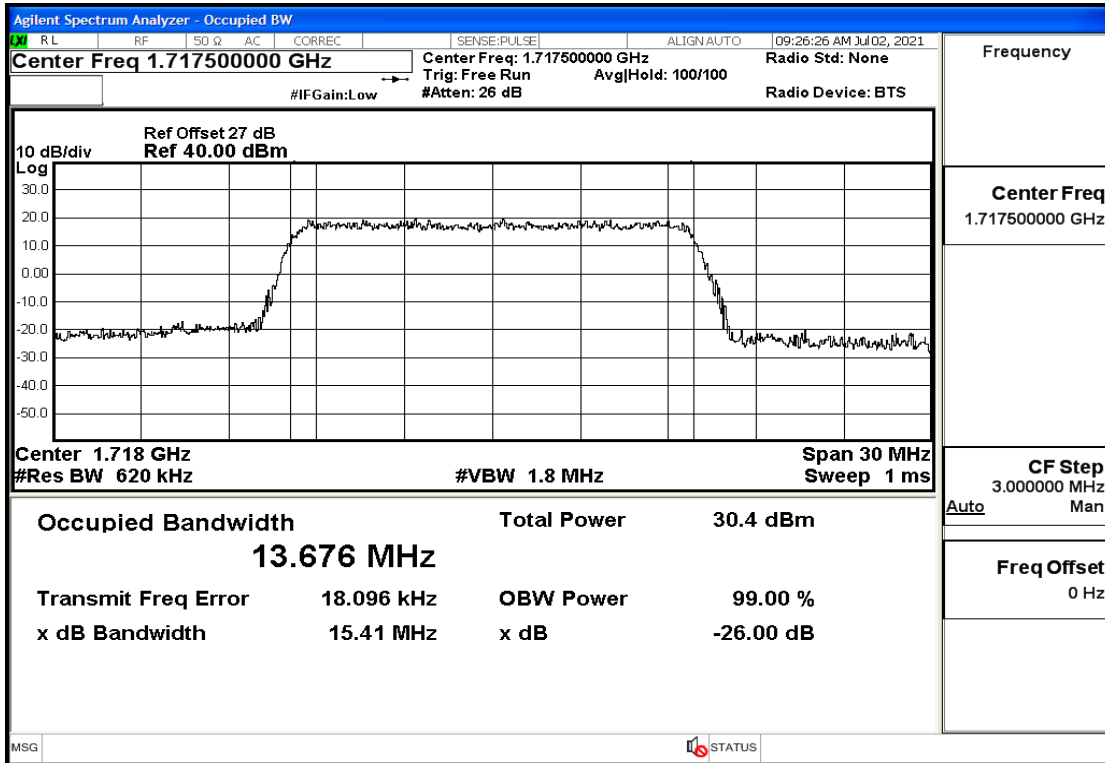
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



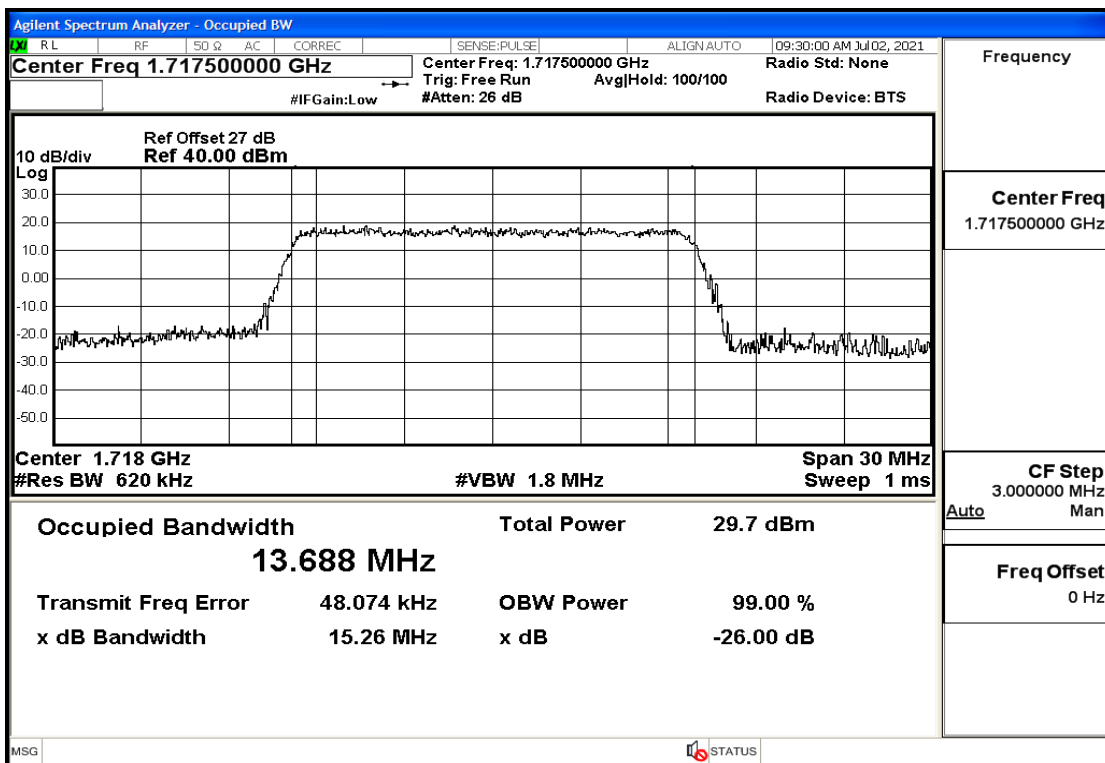
Band4-10-1750-16QAM-50#LOW@26dB and 99PCT Bandwidth



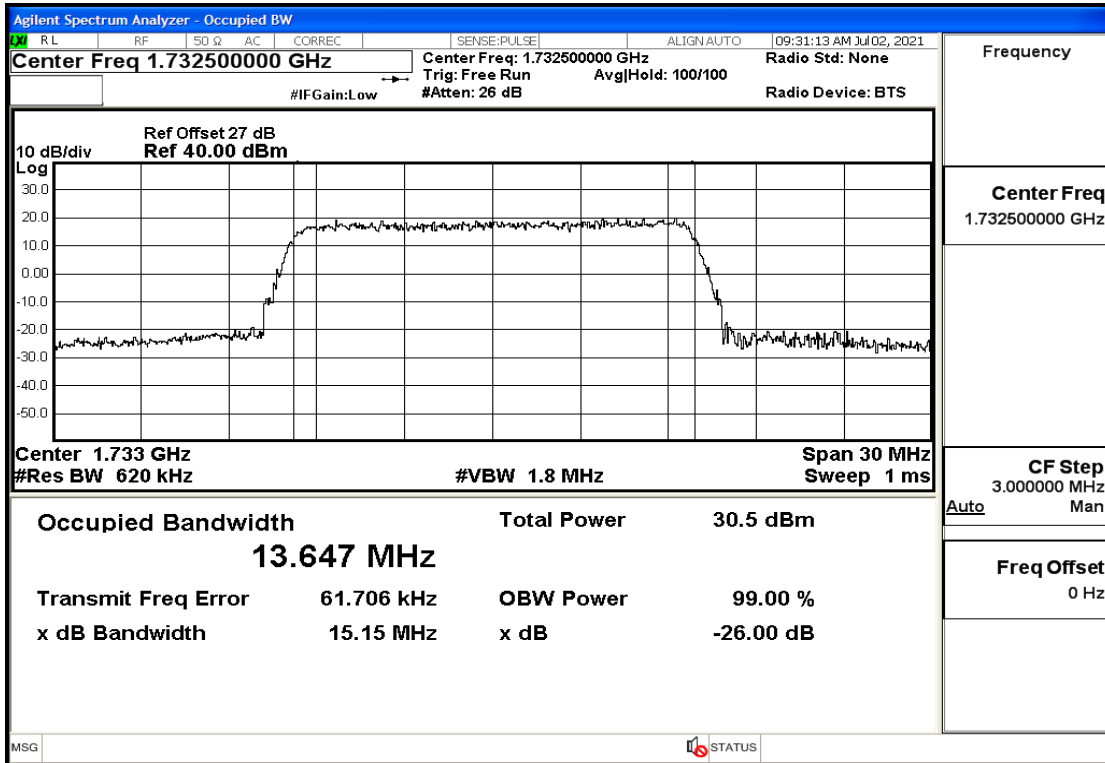
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



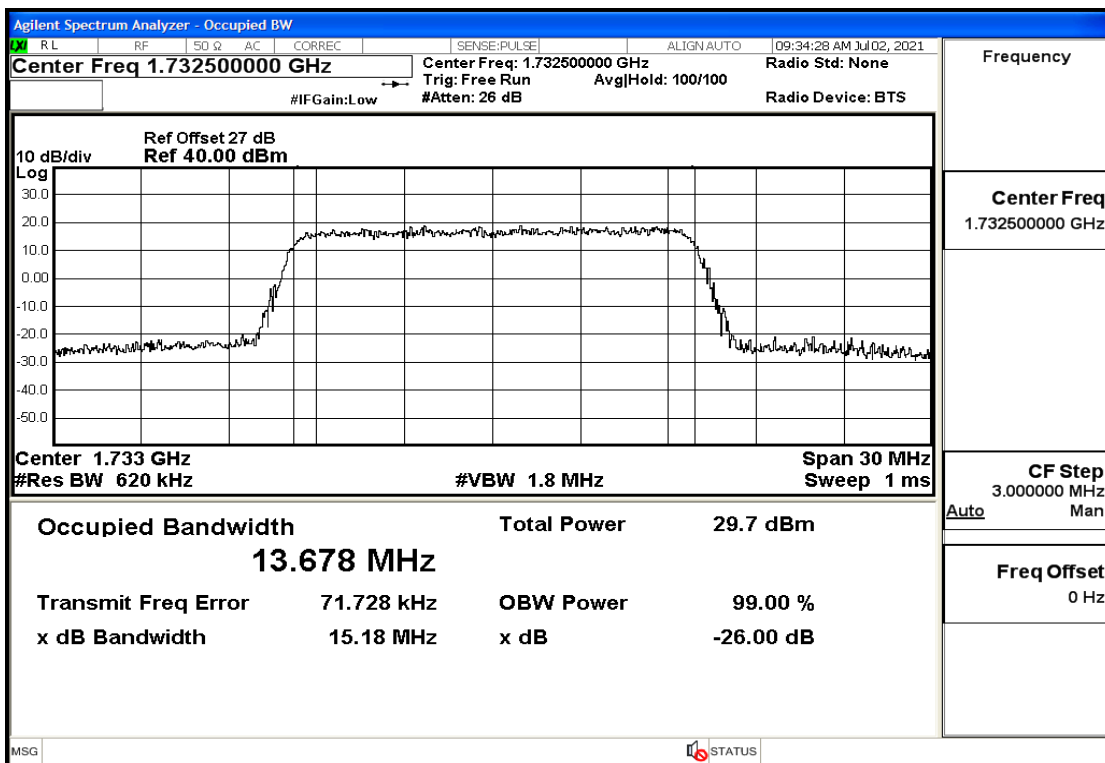
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



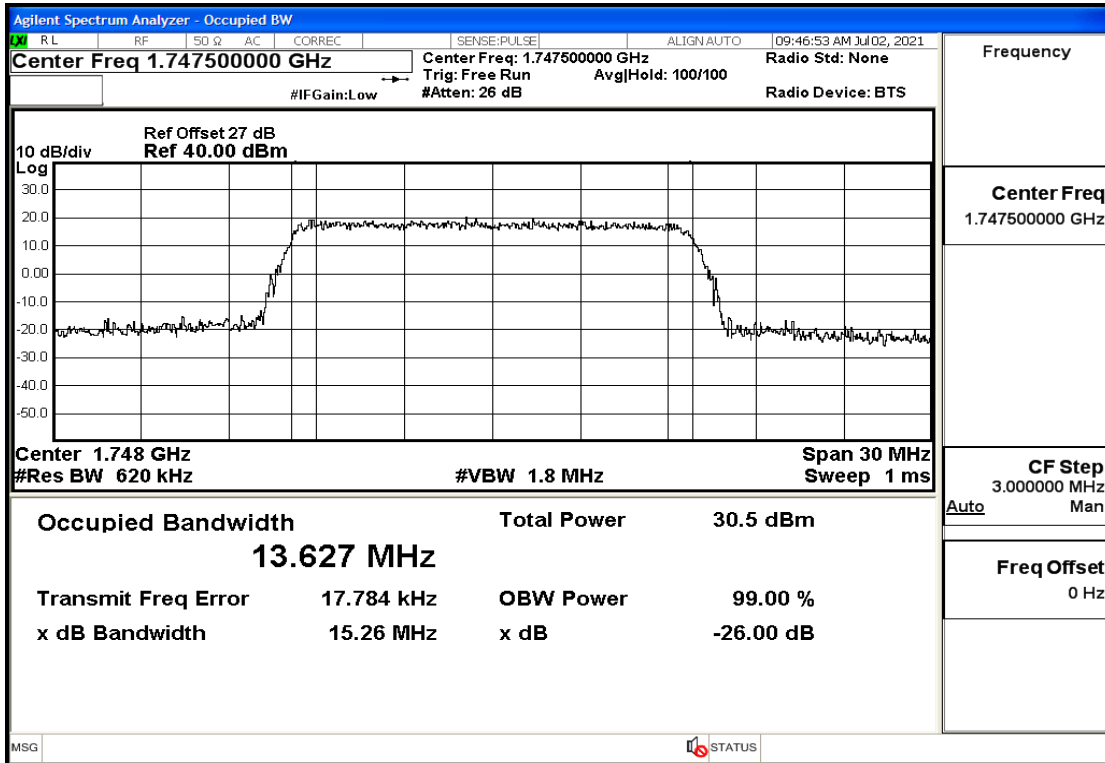
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



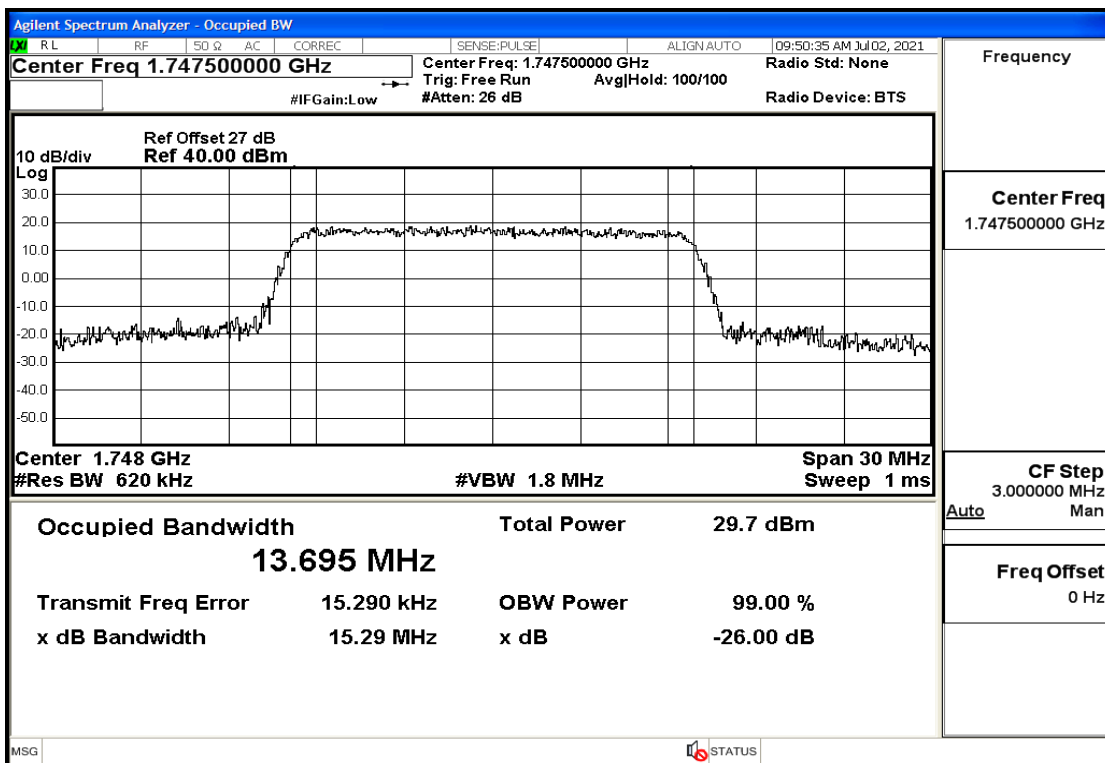
Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



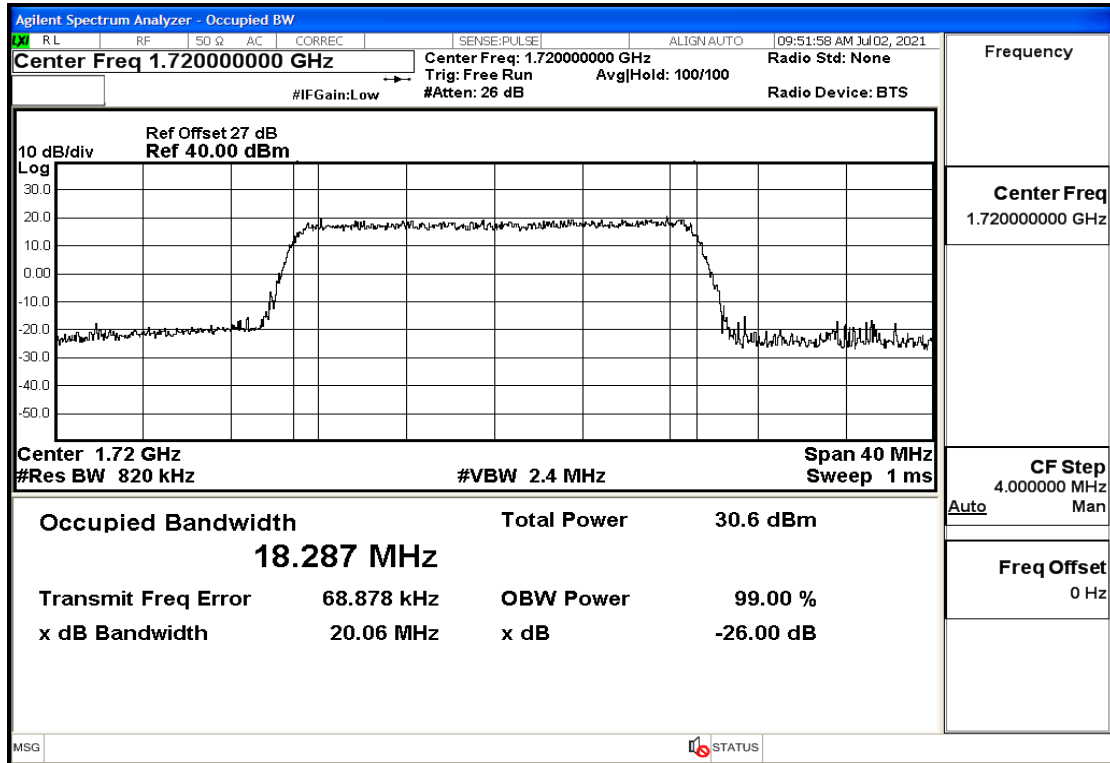
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



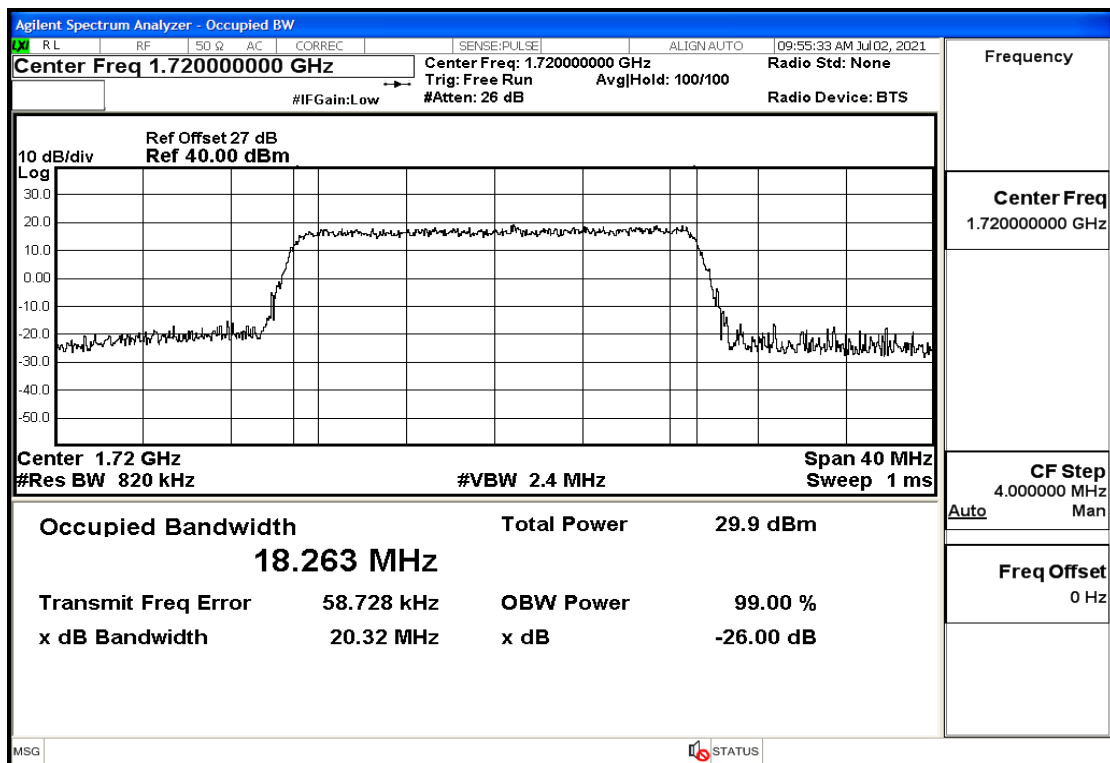
Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



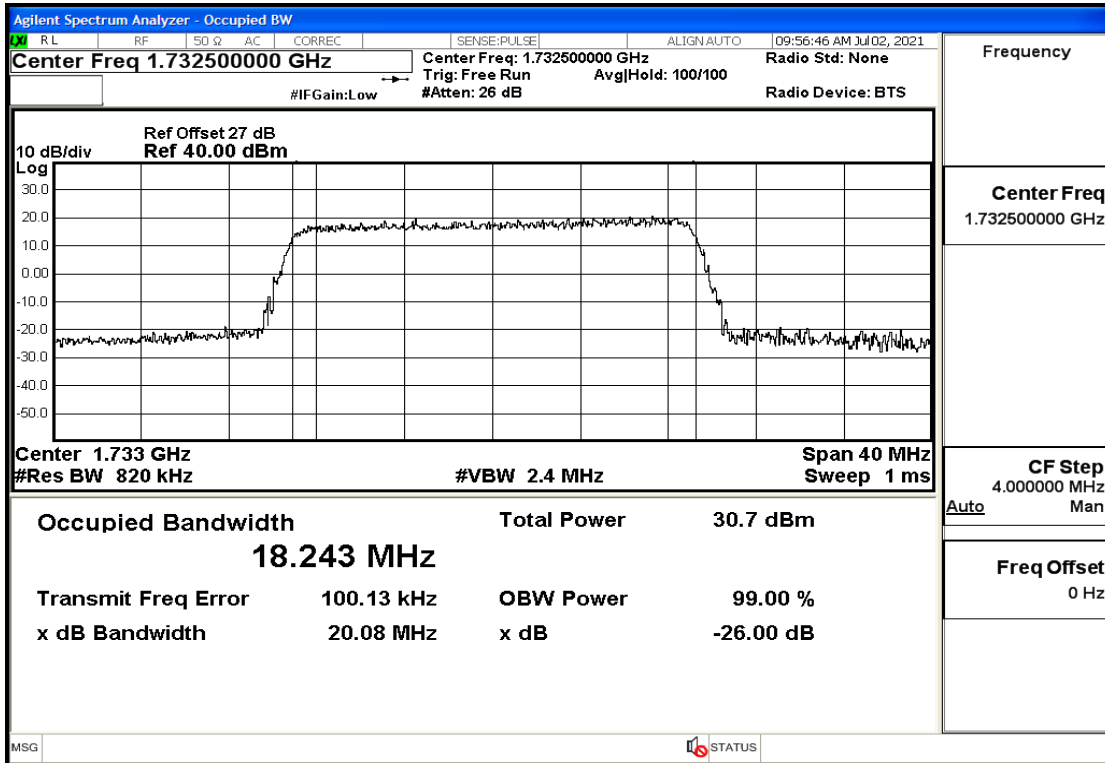
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



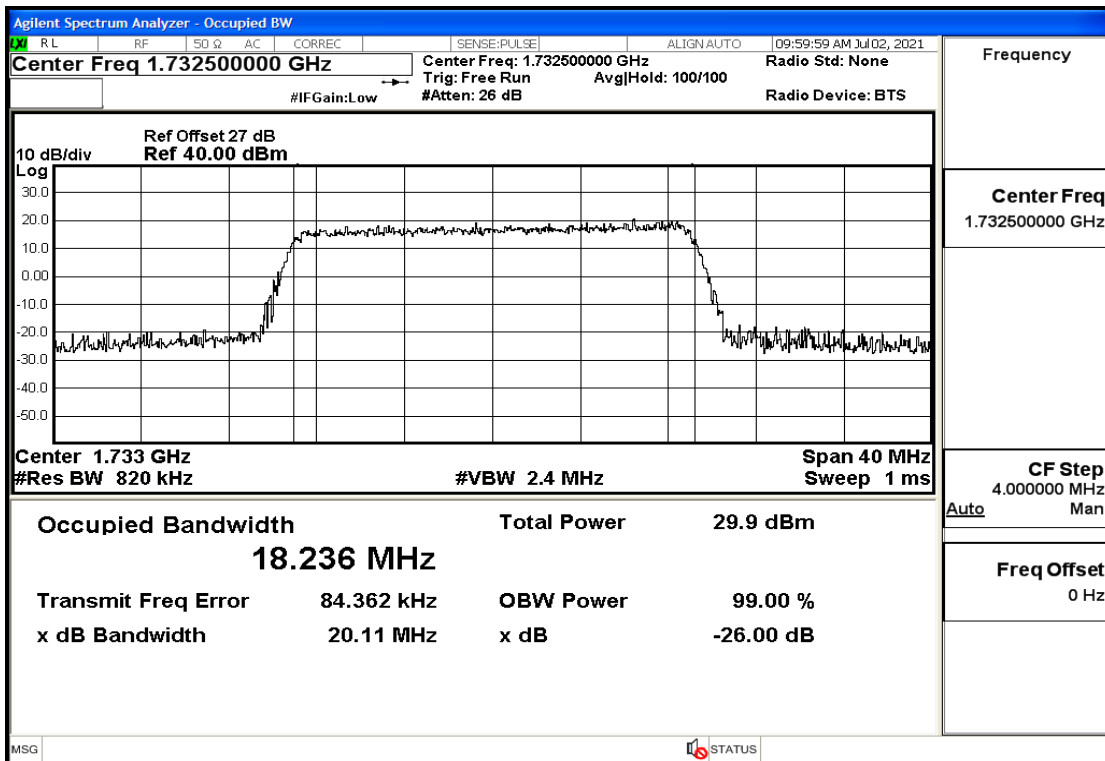
Band4-20-1720-16QAM-100#LOW@26dB and 99PCT Bandwidth



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

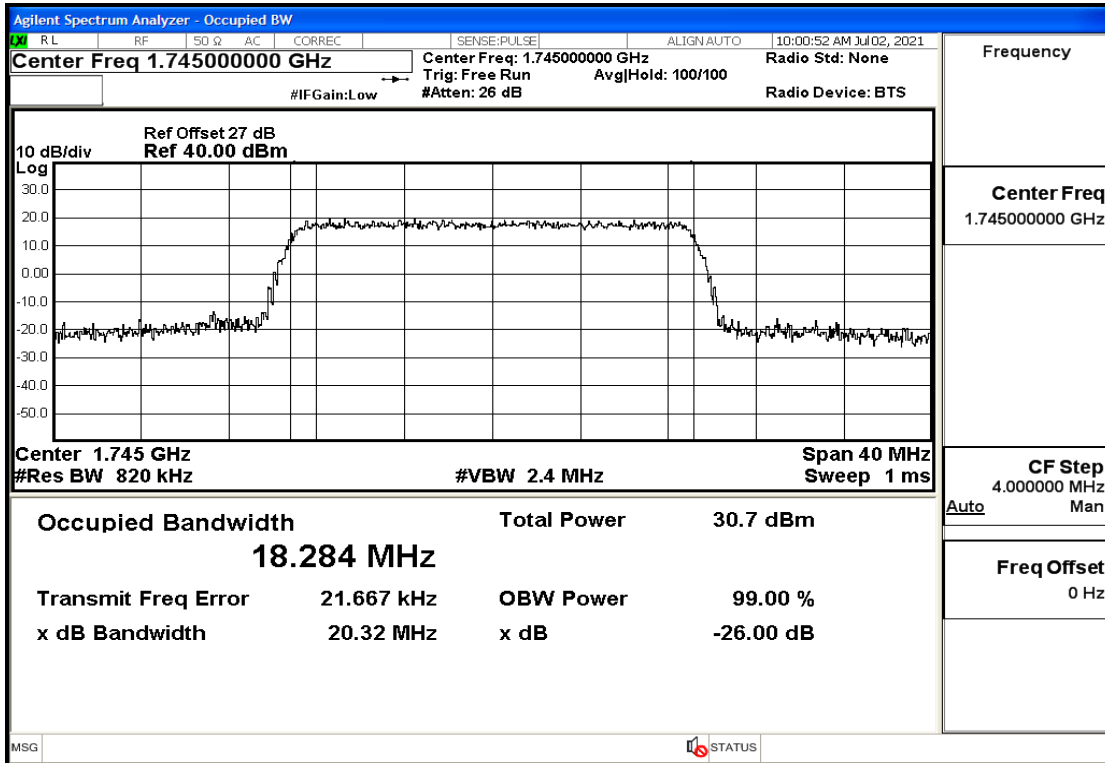


Band4-20-1732.5-16QAM-100#LOW@26dB and 99PCT Bandwidth

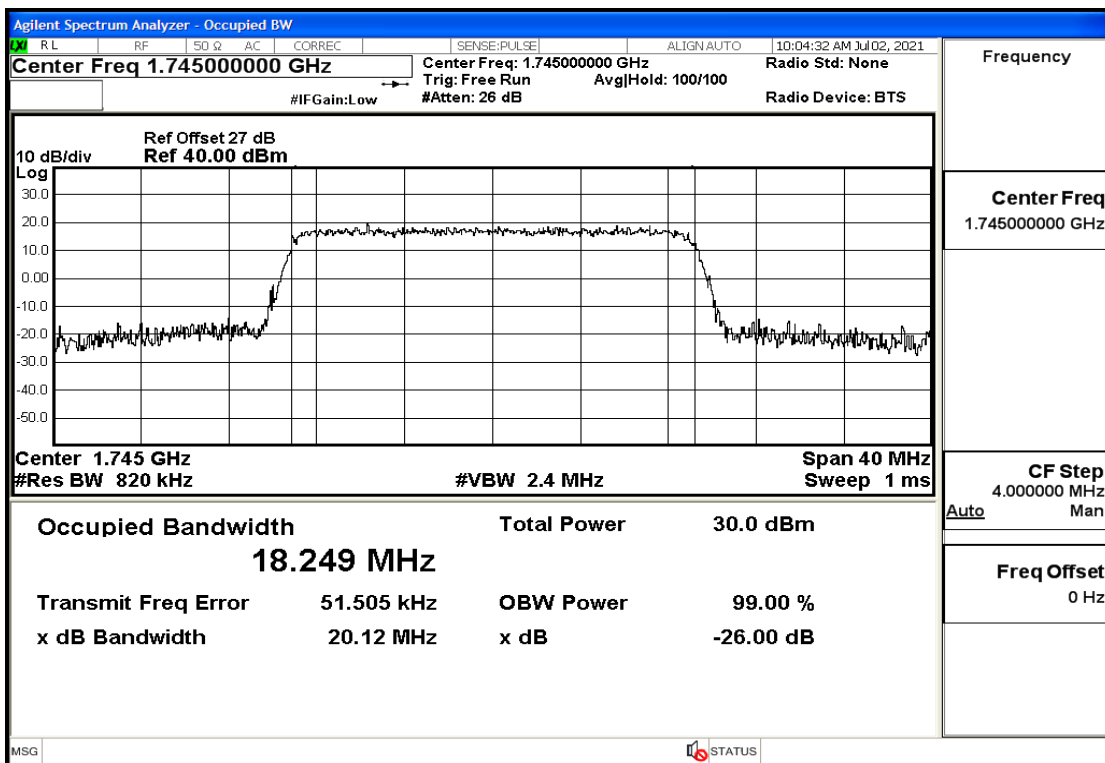




Band4-20-1745-QPSK-100#LOW@26dB and 99PCT Bandwidth



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



## Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0675	PASS
40	Normal Voltage	0.0345	
30	Normal Voltage	0.0197	
20(Ref.)	Normal Voltage	0.0249	
10	Normal Voltage	0.0629	
0	Normal Voltage	0.0165	
-10	Normal Voltage	0.0412	
-20	Normal Voltage	0.0398	
-30	Normal Voltage	0.0173	
20	Maximum Voltage	0.0163	
20	Normal Voltage	0.0282	
20	Battery End Point	0.0631	

## 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	22.42	28.73	6.31	13	0.54	22.96	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	23.73	28.99	5.26	13	0.54	24.27	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	23.71	29.03	5.32	13	0.54	24.25	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	23.77	29.02	5.25	13	0.54	24.31	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	23.72	28.65	4.93	13	0.54	24.26	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	23.73	28.63	4.9	13	0.54	24.27	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	23.76	28.65	4.89	13	0.54	24.3	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	22.02	28.91	6.89	13	0.54	22.56	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	22.75	28.83	6.08	13	0.54	23.29	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	22.74	28.39	5.65	13	0.54	23.28	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	22.83	28.56	5.73	13	0.54	23.37	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	23.43	28.44	5.01	13	0.54	23.97	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	23.45	28.42	4.97	13	0.54	23.99	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	23.49	28.47	4.98	13	0.54	24.03	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	22.69	28.42	5.73	13	0.54	23.23	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	23.55	29.13	5.58	13	0.54	24.09	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	23.52	29.13	5.61	13	0.54	24.06	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	23.54	29.1	5.56	13	0.54	24.08	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	23.73	28.92	5.19	13	0.54	24.27	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	23.51	28.75	5.24	13	0.54	24.05	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	23.62	28.94	5.32	13	0.54	24.16	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	21.73	28.68	6.95	13	0.54	22.27	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	22.52	29.12	6.6	13	0.54	23.06	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	22.53	29.12	6.59	13	0.54	23.07	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	22.46	29.19	6.73	13	0.54	23	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	23.26	28.12	4.86	13	0.54	23.8	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	23.26	28.1	4.84	13	0.54	23.8	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	23.33	28.19	4.86	13	0.54	23.87	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	22.44	28.03	5.59	13	0.54	22.98	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	23.28	27.96	4.68	13	0.54	23.82	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	23.39	27.92	4.53	13	0.54	23.93	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	23.32	27.93	4.61	13	0.54	23.86	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	23.36	27.49	4.13	13	0.54	23.9	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	23.43	27.47	4.04	13	0.54	23.97	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	23.34	27.49	4.15	13	0.54	23.88	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	21.56	27.73	6.17	13	0.54	22.1	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	22.41	28.05	5.64	13	0.54	22.95	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	22.28	28	5.72	13	0.54	22.82	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	22.46	27.94	5.48	13	0.54	23	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	22.34	27.1	4.76	13	0.54	22.88	30	Pass

Band4	1.4	1754.3	16QAM	1	MID	22.34	27.14	4.8	13	0.54	22.88	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	22.35	27.1	4.75	13	0.54	22.89	30	Pass
Band4	3	1711.5	QPSK	15	LOW	22.55	28.58	6.03	13	0.54	23.09	30	Pass
Band4	3	1711.5	QPSK	8	LOW	22.68	28.43	5.75	13	0.54	23.22	30	Pass
Band4	3	1711.5	QPSK	8	MID	22.68	28.3	5.62	13	0.54	23.22	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	22.64	28.45	5.81	13	0.54	23.18	30	Pass
Band4	3	1711.5	QPSK	1	LOW	23.48	28.15	4.67	13	0.54	24.02	30	Pass
Band4	3	1711.5	QPSK	1	MID	23.52	28.24	4.72	13	0.54	24.06	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	23.38	28.19	4.81	13	0.54	23.92	30	Pass
Band4	3	1711.5	16QAM	15	LOW	21.92	29.06	7.14	13	0.54	22.46	30	Pass
Band4	3	1711.5	16QAM	8	LOW	22.01	28.48	6.47	13	0.54	22.55	30	Pass
Band4	3	1711.5	16QAM	8	MID	22.01	28.39	6.38	13	0.54	22.55	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	21.97	28.45	6.48	13	0.54	22.51	30	Pass
Band4	3	1711.5	16QAM	1	LOW	23.08	28.47	5.39	13	0.54	23.62	30	Pass
Band4	3	1711.5	16QAM	1	MID	23.15	28.57	5.42	13	0.54	23.69	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	23.01	28.62	5.61	13	0.54	23.55	30	Pass
Band4	3	1732.5	QPSK	15	LOW	22.41	28.14	5.73	13	0.54	22.95	30	Pass
Band4	3	1732.5	QPSK	8	LOW	22.5	28.71	6.21	13	0.54	23.04	30	Pass
Band4	3	1732.5	QPSK	8	MID	22.5	28.67	6.17	13	0.54	23.04	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	22.48	28.53	6.05	13	0.54	23.02	30	Pass
Band4	3	1732.5	QPSK	1	LOW	23.62	28.92	5.3	13	0.54	24.16	30	Pass
Band4	3	1732.5	QPSK	1	MID	23.6	28.83	5.23	13	0.54	24.14	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	23.55	28.75	5.2	13	0.54	24.09	30	Pass
Band4	3	1732.5	16QAM	15	LOW	21.78	28.98	7.2	13	0.54	22.32	30	Pass
Band4	3	1732.5	16QAM	8	LOW	21.72	28.2	6.48	13	0.54	22.26	30	Pass
Band4	3	1732.5	16QAM	8	MID	21.59	28.05	6.46	13	0.54	22.13	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	21.73	28.11	6.38	13	0.54	22.27	30	Pass
Band4	3	1732.5	16QAM	1	LOW	23.32	28.5	5.18	13	0.54	23.86	30	Pass
Band4	3	1732.5	16QAM	1	MID	23.37	28.15	4.78	13	0.54	23.91	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	23.31	28.12	4.81	13	0.54	23.85	30	Pass
Band4	3	1753.5	QPSK	15	LOW	22.31	28.93	6.62	13	0.54	22.85	30	Pass
Band4	3	1753.5	QPSK	8	LOW	22.3	27.83	5.53	13	0.54	22.84	30	Pass
Band4	3	1753.5	QPSK	8	MID	22.3	27.97	5.67	13	0.54	22.84	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	22.32	27.96	5.64	13	0.54	22.86	30	Pass
Band4	3	1753.5	QPSK	1	LOW	23.51	27.56	4.05	13	0.54	24.05	30	Pass
Band4	3	1753.5	QPSK	1	MID	23.55	27.49	3.94	13	0.54	24.09	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	23.28	27.42	4.14	13	0.54	23.82	30	Pass
Band4	3	1753.5	16QAM	15	LOW	21.81	28.37	6.56	13	0.54	22.35	30	Pass
Band4	3	1753.5	16QAM	8	LOW	21.84	27.64	5.8	13	0.54	22.38	30	Pass
Band4	3	1753.5	16QAM	8	MID	21.84	27.69	5.85	13	0.54	22.38	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	21.79	27.45	5.66	13	0.54	22.33	30	Pass
Band4	3	1753.5	16QAM	1	LOW	22.84	27.4	4.56	13	0.54	23.38	30	Pass
Band4	3	1753.5	16QAM	1	MID	22.8	27.31	4.51	13	0.54	23.34	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	22.84	27.31	4.47	13	0.54	23.38	30	Pass
Band4	5	1712.5	QPSK	25	LOW	22.48	28.57	6.09	13	0.54	23.02	30	Pass
Band4	5	1712.5	QPSK	12	LOW	22.76	28.52	5.76	13	0.54	23.3	30	Pass

Band4	5	1712.5	QPSK	12	MID	22.76	28.54	5.78	13	0.54	23.3	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	22.71	28.63	5.92	13	0.54	23.25	30	Pass
Band4	5	1712.5	QPSK	1	LOW	23.13	28.53	5.4	13	0.54	23.67	30	Pass
Band4	5	1712.5	QPSK	1	MID	23.62	28.84	5.22	13	0.54	24.16	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	22.93	28.79	5.86	13	0.54	23.47	30	Pass
Band4	5	1712.5	16QAM	25	LOW	21.87	29.22	7.35	13	0.54	22.41	30	Pass
Band4	5	1712.5	16QAM	12	LOW	21.79	28.58	6.79	13	0.54	22.33	30	Pass
Band4	5	1712.5	16QAM	12	MID	21.8	28.64	6.84	13	0.54	22.34	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	21.75	28.81	7.06	13	0.54	22.29	30	Pass
Band4	5	1712.5	16QAM	1	LOW	22.05	27.63	5.58	13	0.54	22.59	30	Pass
Band4	5	1712.5	16QAM	1	MID	22.05	27.7	5.65	13	0.54	22.59	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	21.98	27.75	5.77	13	0.54	22.52	30	Pass
Band4	5	1732.5	QPSK	25	LOW	22.44	28.87	6.43	13	0.54	22.98	30	Pass
Band4	5	1732.5	QPSK	12	LOW	22.57	28.91	6.34	13	0.54	23.11	30	Pass
Band4	5	1732.5	QPSK	12	MID	22.57	29.18	6.61	13	0.54	23.11	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	22.39	28.82	6.43	13	0.54	22.93	30	Pass
Band4	5	1732.5	QPSK	1	LOW	23.66	28.92	5.26	13	0.54	24.2	30	Pass
Band4	5	1732.5	QPSK	1	MID	23.64	28.76	5.12	13	0.54	24.18	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	23.54	28.64	5.1	13	0.54	24.08	30	Pass
Band4	5	1732.5	16QAM	25	LOW	21.73	29.95	8.22	13	0.54	22.27	30	Pass
Band4	5	1732.5	16QAM	12	LOW	21.66	28.51	6.85	13	0.54	22.2	30	Pass
Band4	5	1732.5	16QAM	12	MID	21.66	28.34	6.68	13	0.54	22.2	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	21.66	28.48	6.82	13	0.54	22.2	30	Pass
Band4	5	1732.5	16QAM	1	LOW	22.73	28.59	5.86	13	0.54	23.27	30	Pass
Band4	5	1732.5	16QAM	1	MID	22.74	28.45	5.71	13	0.54	23.28	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	22.89	28.52	5.63	13	0.54	23.43	30	Pass
Band4	5	1752.5	QPSK	25	LOW	22.35	28.06	5.71	13	0.54	22.89	30	Pass
Band4	5	1752.5	QPSK	12	LOW	22.39	27.74	5.35	13	0.54	22.93	30	Pass
Band4	5	1752.5	QPSK	12	MID	22.4	27.63	5.23	13	0.54	22.94	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	22.39	27.54	5.15	13	0.54	22.93	30	Pass
Band4	5	1752.5	QPSK	1	LOW	23.16	27.63	4.47	13	0.54	23.7	30	Pass
Band4	5	1752.5	QPSK	1	MID	23.19	27.56	4.37	13	0.54	23.73	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	22.99	27.44	4.45	13	0.54	23.53	30	Pass
Band4	5	1752.5	16QAM	25	LOW	21.44	28.06	6.62	13	0.54	21.98	30	Pass
Band4	5	1752.5	16QAM	12	LOW	21.34	27.81	6.47	13	0.54	21.88	30	Pass
Band4	5	1752.5	16QAM	12	MID	21.35	27.67	6.32	13	0.54	21.89	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	21.45	27.75	6.3	13	0.54	21.99	30	Pass
Band4	5	1752.5	16QAM	1	LOW	22.31	27.69	5.38	13	0.54	22.85	30	Pass
Band4	5	1752.5	16QAM	1	MID	22.01	27.58	5.57	13	0.54	22.55	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	22.08	27.76	5.68	13	0.54	22.62	30	Pass
Band4	10	1715	QPSK	50	LOW	22.49	28.8	6.31	13	0.54	23.03	30	Pass
Band4	10	1715	QPSK	25	LOW	22.66	28.74	6.08	13	0.54	23.2	30	Pass
Band4	10	1715	QPSK	25	MID	22.66	28.74	6.08	13	0.54	23.2	30	Pass
Band4	10	1715	QPSK	25	HIGH	22.71	29.03	6.32	13	0.54	23.25	30	Pass
Band4	10	1715	QPSK	1	LOW	23.02	27.88	4.86	13	0.54	23.56	30	Pass
Band4	10	1715	QPSK	1	MID	23.34	28.2	4.86	13	0.54	23.88	30	Pass

Band4	10	1715	QPSK	1	HIGH	23.28	28.35	5.07	13	0.54	23.82	30	Pass
Band4	10	1715	16QAM	50	LOW	21.77	29.28	7.51	13	0.54	22.31	30	Pass
Band4	10	1715	16QAM	25	LOW	21.73	28.7	6.97	13	0.54	22.27	30	Pass
Band4	10	1715	16QAM	25	MID	21.74	28.75	7.01	13	0.54	22.28	30	Pass
Band4	10	1715	16QAM	25	HIGH	21.69	28.9	7.21	13	0.54	22.23	30	Pass
Band4	10	1715	16QAM	1	LOW	23	28.4	5.4	13	0.54	23.54	30	Pass
Band4	10	1715	16QAM	1	MID	22.88	28.71	5.83	13	0.54	23.42	30	Pass
Band4	10	1715	16QAM	1	HIGH	22.95	28.99	6.04	13	0.54	23.49	30	Pass
Band4	10	1732.5	QPSK	50	LOW	22.46	28.84	6.38	13	0.54	23	30	Pass
Band4	10	1732.5	QPSK	25	LOW	22.49	28.92	6.43	13	0.54	23.03	30	Pass
Band4	10	1732.5	QPSK	25	MID	22.49	28.88	6.39	13	0.54	23.03	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	22.53	28.81	6.28	13	0.54	23.07	30	Pass
Band4	10	1732.5	QPSK	1	LOW	23.54	28.95	5.41	13	0.54	24.08	30	Pass
Band4	10	1732.5	QPSK	1	MID	23.65	28.78	5.13	13	0.54	24.19	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	23.68	28.64	4.96	13	0.54	24.22	30	Pass
Band4	10	1732.5	16QAM	50	LOW	21.77	28.64	6.87	13	0.54	22.31	30	Pass
Band4	10	1732.5	16QAM	25	LOW	21.68	29.25	7.57	13	0.54	22.22	30	Pass
Band4	10	1732.5	16QAM	25	MID	21.68	29.13	7.45	13	0.54	22.22	30	Pass
Band4	10	1732.5	16QAM	25	HIGH	21.89	29.16	7.27	13	0.54	22.43	30	Pass
Band4	10	1732.5	16QAM	1	LOW	22.77	28.77	6	13	0.54	23.31	30	Pass
Band4	10	1732.5	16QAM	1	MID	22.83	27.75	4.92	13	0.54	23.37	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	22.79	27.98	5.19	13	0.54	23.33	30	Pass
Band4	10	1750	QPSK	50	LOW	22.4	28.32	5.92	13	0.54	22.94	30	Pass
Band4	10	1750	QPSK	25	LOW	22.24	28.26	6.02	13	0.54	22.78	30	Pass
Band4	10	1750	QPSK	25	MID	22.25	28.28	6.03	13	0.54	22.79	30	Pass
Band4	10	1750	QPSK	25	HIGH	22.23	28.08	5.85	13	0.54	22.77	30	Pass
Band4	10	1750	QPSK	1	LOW	23.62	27.95	4.33	13	0.54	24.16	30	Pass
Band4	10	1750	QPSK	1	MID	23.6	27.63	4.03	13	0.54	24.14	30	Pass
Band4	10	1750	QPSK	1	HIGH	23.55	27.84	4.29	13	0.54	24.09	30	Pass
Band4	10	1750	16QAM	50	LOW	21.5	28.52	7.02	13	0.54	22.04	30	Pass
Band4	10	1750	16QAM	25	LOW	21.74	28.12	6.38	13	0.54	22.28	30	Pass
Band4	10	1750	16QAM	25	MID	21.75	28.19	6.44	13	0.54	22.29	30	Pass
Band4	10	1750	16QAM	25	HIGH	21.73	27.98	6.25	13	0.54	22.27	30	Pass
Band4	10	1750	16QAM	1	LOW	22.32	27.31	4.99	13	0.54	22.86	30	Pass
Band4	10	1750	16QAM	1	MID	22.23	27.1	4.87	13	0.54	22.77	30	Pass
Band4	10	1750	16QAM	1	HIGH	22.35	27.25	4.9	13	0.54	22.89	30	Pass
Band4	15	1717.5	QPSK	75	LOW	22.53	29.52	6.99	13	0.54	23.07	30	Pass
Band4	15	1717.5	QPSK	38	LOW	22.68	29.63	6.95	13	0.54	23.22	30	Pass
Band4	15	1717.5	QPSK	38	MID	22.68	29.53	6.85	13	0.54	23.22	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	22.67	29.57	6.9	13	0.54	23.21	30	Pass
Band4	15	1717.5	QPSK	1	LOW	23.25	28.04	4.79	13	0.54	23.79	30	Pass
Band4	15	1717.5	QPSK	1	MID	23.18	28.24	5.06	13	0.54	23.72	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	23.25	28.42	5.17	13	0.54	23.79	30	Pass
Band4	15	1717.5	16QAM	75	LOW	21.86	29.19	7.33	13	0.54	22.4	30	Pass
Band4	15	1717.5	16QAM	38	LOW	21.81	29.17	7.36	13	0.54	22.35	30	Pass
Band4	15	1717.5	16QAM	38	MID	21.82	29.02	7.2	13	0.54	22.36	30	Pass

Band4	15	1717.5	16QAM	38	HIGH	21.71	29.09	7.38	13	0.54	22.25	30	Pass
Band4	15	1717.5	16QAM	1	LOW	22.98	28.56	5.58	13	0.54	23.52	30	Pass
Band4	15	1717.5	16QAM	1	MID	22.94	28.88	5.94	13	0.54	23.48	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	22.94	29.21	6.27	13	0.54	23.48	30	Pass
Band4	15	1732.5	QPSK	75	LOW	22.47	29.35	6.88	13	0.54	23.01	30	Pass
Band4	15	1732.5	QPSK	38	LOW	22.5	29.34	6.84	13	0.54	23.04	30	Pass
Band4	15	1732.5	QPSK	38	MID	22.5	29.44	6.94	13	0.54	23.04	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	22.48	29.4	6.92	13	0.54	23.02	30	Pass
Band4	15	1732.5	QPSK	1	LOW	23.35	28.8	5.45	13	0.54	23.89	30	Pass
Band4	15	1732.5	QPSK	1	MID	23.63	28.82	5.19	13	0.54	24.17	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	23.71	28.46	4.75	13	0.54	24.25	30	Pass
Band4	15	1732.5	16QAM	75	LOW	21.67	29.1	7.43	13	0.54	22.21	30	Pass
Band4	15	1732.5	16QAM	38	LOW	21.66	29.13	7.47	13	0.54	22.2	30	Pass
Band4	15	1732.5	16QAM	38	MID	21.66	29.1	7.44	13	0.54	22.2	30	Pass
Band4	15	1732.5	16QAM	38	HIGH	21.67	29.1	7.43	13	0.54	22.21	30	Pass
Band4	15	1732.5	16QAM	1	LOW	22.85	29.2	6.35	13	0.54	23.39	30	Pass
Band4	15	1732.5	16QAM	1	MID	22.75	27.62	4.87	13	0.54	23.29	30	Pass
Band4	15	1732.5	16QAM	1	HIGH	22.8	27.87	5.07	13	0.54	23.34	30	Pass
Band4	15	1747.5	QPSK	75	LOW	22.34	28.74	6.4	13	0.54	22.88	30	Pass
Band4	15	1747.5	QPSK	38	LOW	22.29	28.49	6.2	13	0.54	22.83	30	Pass
Band4	15	1747.5	QPSK	38	MID	22.29	28.66	6.37	13	0.54	22.83	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	22.29	28.71	6.42	13	0.54	22.83	30	Pass
Band4	15	1747.5	QPSK	1	LOW	23.56	28.22	4.66	13	0.54	24.1	30	Pass
Band4	15	1747.5	QPSK	1	MID	23.54	27.72	4.18	13	0.54	24.08	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	23.46	27.7	4.24	13	0.54	24	30	Pass
Band4	15	1747.5	16QAM	75	LOW	21.59	28.47	6.88	13	0.54	22.13	30	Pass
Band4	15	1747.5	16QAM	38	LOW	21.59	28.58	6.99	13	0.54	22.13	30	Pass
Band4	15	1747.5	16QAM	38	MID	21.61	28.62	7.01	13	0.54	22.15	30	Pass
Band4	15	1747.5	16QAM	38	HIGH	21.61	28.54	6.93	13	0.54	22.15	30	Pass
Band4	15	1747.5	16QAM	1	LOW	23.05	28.31	5.26	13	0.54	23.59	30	Pass
Band4	15	1747.5	16QAM	1	MID	23.2	27.59	4.39	13	0.54	23.74	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	23.06	28.28	5.22	13	0.54	23.6	30	Pass
Band4	20	1720	QPSK	100	LOW	22.57	29.07	6.5	13	0.54	23.11	30	Pass
Band4	20	1720	QPSK	50	LOW	22.6	28.81	6.21	13	0.54	23.14	30	Pass
Band4	20	1720	QPSK	50	MID	22.6	28.82	6.22	13	0.54	23.14	30	Pass
Band4	20	1720	QPSK	50	HIGH	22.68	29.08	6.4	13	0.54	23.22	30	Pass
Band4	20	1720	QPSK	1	LOW	23.31	28.22	4.91	13	0.54	23.85	30	Pass
Band4	20	1720	QPSK	1	MID	23.32	28.57	5.25	13	0.54	23.86	30	Pass
Band4	20	1720	QPSK	1	HIGH	23.7	29	5.3	13	0.54	24.24	30	Pass
Band4	20	1720	16QAM	100	LOW	21.73	29.88	8.15	13	0.54	22.27	30	Pass
Band4	20	1720	16QAM	50	LOW	21.8	29.21	7.41	13	0.54	22.34	30	Pass
Band4	20	1720	16QAM	50	MID	21.8	29.26	7.46	13	0.54	22.34	30	Pass
Band4	20	1720	16QAM	50	HIGH	21.75	29.53	7.78	13	0.54	22.29	30	Pass
Band4	20	1720	16QAM	1	LOW	22.94	29.08	6.14	13	0.54	23.48	30	Pass
Band4	20	1720	16QAM	1	MID	22.94	28.63	5.69	13	0.54	23.48	30	Pass
Band4	20	1720	16QAM	1	HIGH	22.93	29.36	6.43	13	0.54	23.47	30	Pass

Band4	20	1732.5	QPSK	100	LOW	22.53	29.17	6.64	13	0.54	23.07	30	Pass
Band4	20	1732.5	QPSK	50	LOW	22.51	28.99	6.48	13	0.54	23.05	30	Pass
Band4	20	1732.5	QPSK	50	MID	22.49	28.98	6.49	13	0.54	23.03	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	22.47	28.68	6.21	13	0.54	23.01	30	Pass
Band4	20	1732.5	QPSK	1	LOW	23.48	29.79	6.31	13	0.54	24.02	30	Pass
Band4	20	1732.5	QPSK	1	MID	23.8	28.64	4.84	13	0.54	24.34	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	23.7	28.94	5.24	13	0.54	24.24	30	Pass
Band4	20	1732.5	16QAM	100	LOW	21.71	29.17	7.46	13	0.54	22.25	30	Pass
Band4	20	1732.5	16QAM	50	LOW	21.62	29.14	7.52	13	0.54	22.16	30	Pass
Band4	20	1732.5	16QAM	50	MID	21.61	29.04	7.43	13	0.54	22.15	30	Pass
Band4	20	1732.5	16QAM	50	HIGH	21.7	28.91	7.21	13	0.54	22.24	30	Pass
Band4	20	1732.5	16QAM	1	LOW	22.79	29.15	6.36	13	0.54	23.33	30	Pass
Band4	20	1732.5	16QAM	1	MID	22.8	29.05	6.25	13	0.54	23.34	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	22.82	28.39	5.57	13	0.54	23.36	30	Pass
Band4	20	1745	QPSK	100	LOW	22.53	28.78	6.25	13	0.54	23.07	30	Pass
Band4	20	1745	QPSK	50	LOW	22.47	28.56	6.09	13	0.54	23.01	30	Pass
Band4	20	1745	QPSK	50	MID	22.48	28.54	6.06	13	0.54	23.02	30	Pass
Band4	20	1745	QPSK	50	HIGH	22.46	28.02	5.56	13	0.54	23	30	Pass
Band4	20	1745	QPSK	1	LOW	23.66	28.97	5.31	13	0.54	24.2	30	Pass
Band4	20	1745	QPSK	1	MID	23.6	27.99	4.39	13	0.54	24.14	30	Pass
Band4	20	1745	QPSK	1	HIGH	23.45	28.05	4.6	13	0.54	23.99	30	Pass
Band4	20	1745	16QAM	100	LOW	21.72	28.74	7.02	13	0.54	22.26	30	Pass
Band4	20	1745	16QAM	50	LOW	21.66	28.58	6.92	13	0.54	22.2	30	Pass
Band4	20	1745	16QAM	50	MID	21.67	28.67	7	13	0.54	22.21	30	Pass
Band4	20	1745	16QAM	50	HIGH	21.72	28.2	6.48	13	0.54	22.26	30	Pass
Band4	20	1745	16QAM	1	LOW	23.52	28.92	5.4	13	0.54	24.06	30	Pass
Band4	20	1745	16QAM	1	MID	23.42	28.08	4.66	13	0.54	23.96	30	Pass
Band4	20	1745	16QAM	1	HIGH	23.44	28.67	5.23	13	0.54	23.98	30	Pass