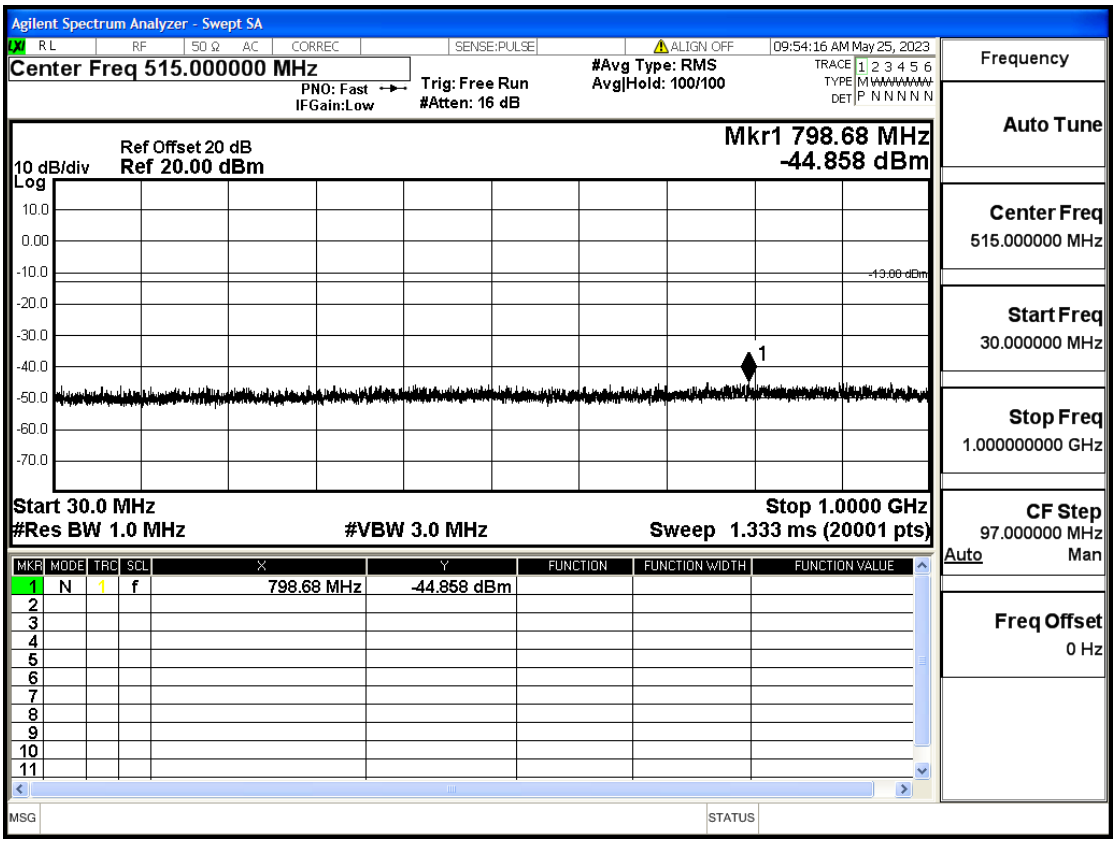
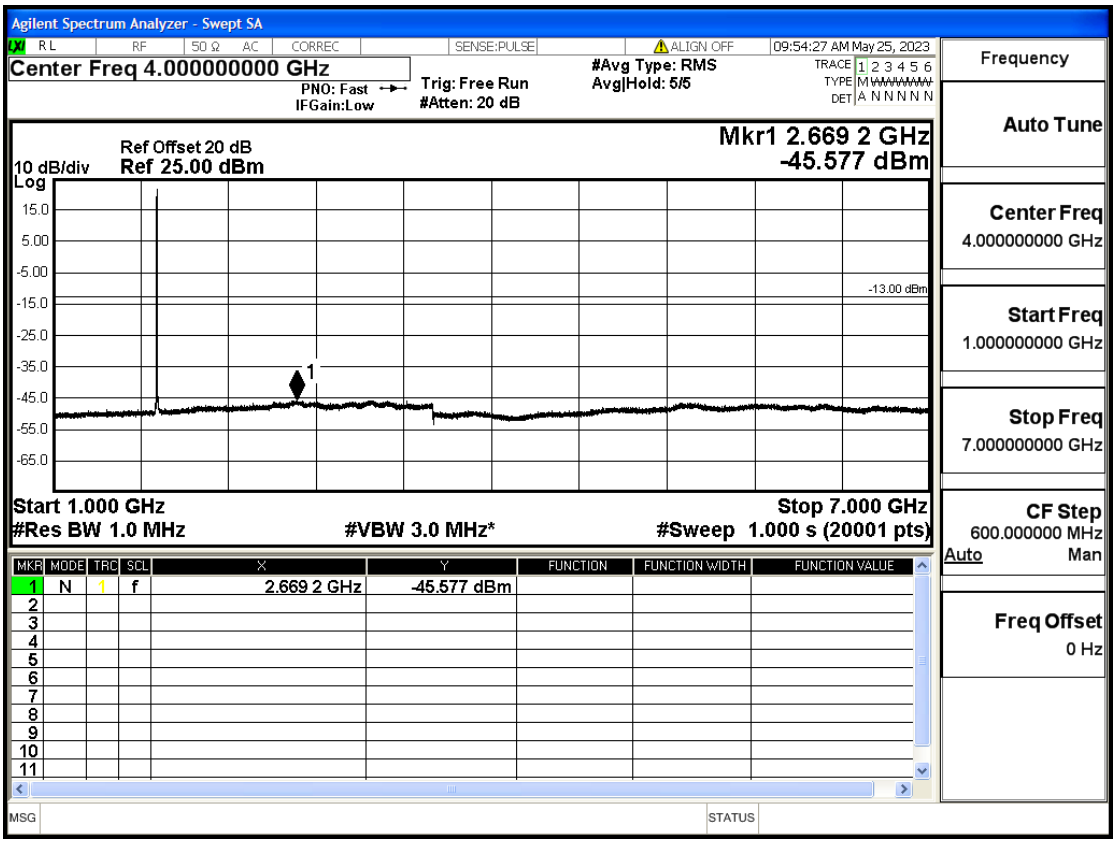
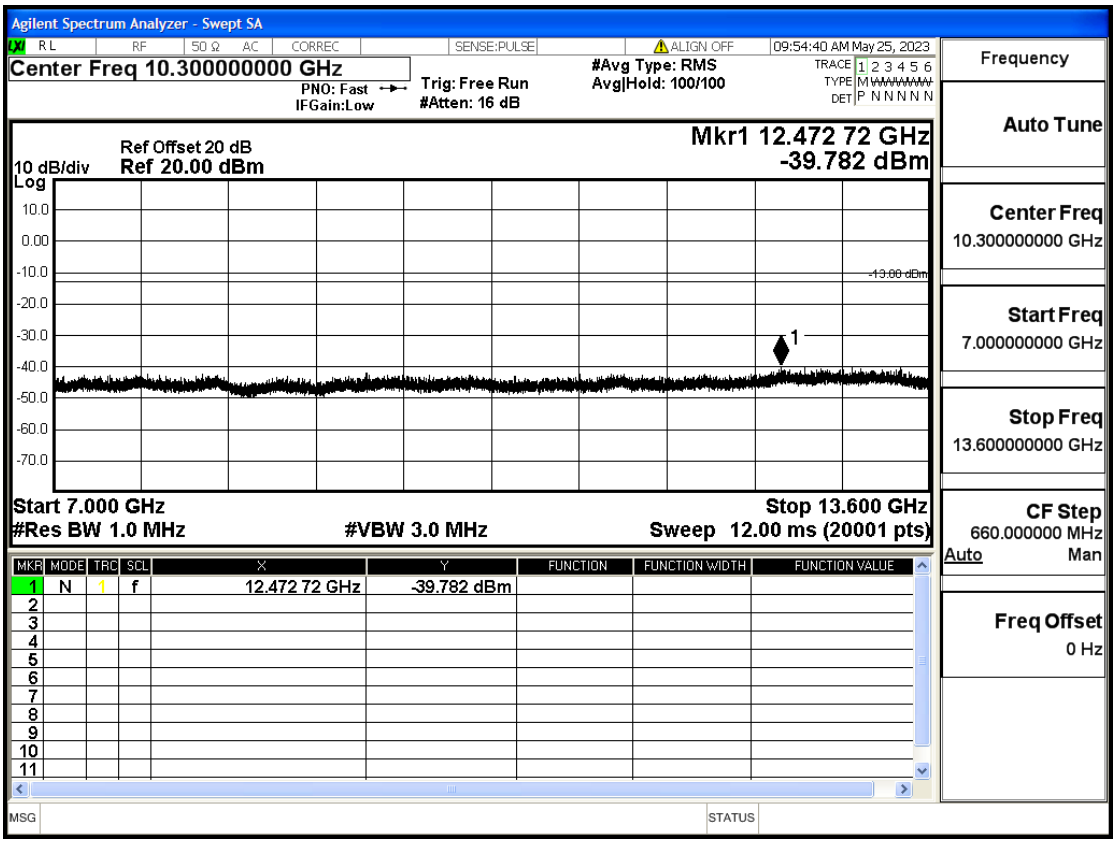
OB4-3-1711.5-Q16-15#LOW@30mHz-1GHz@Pass



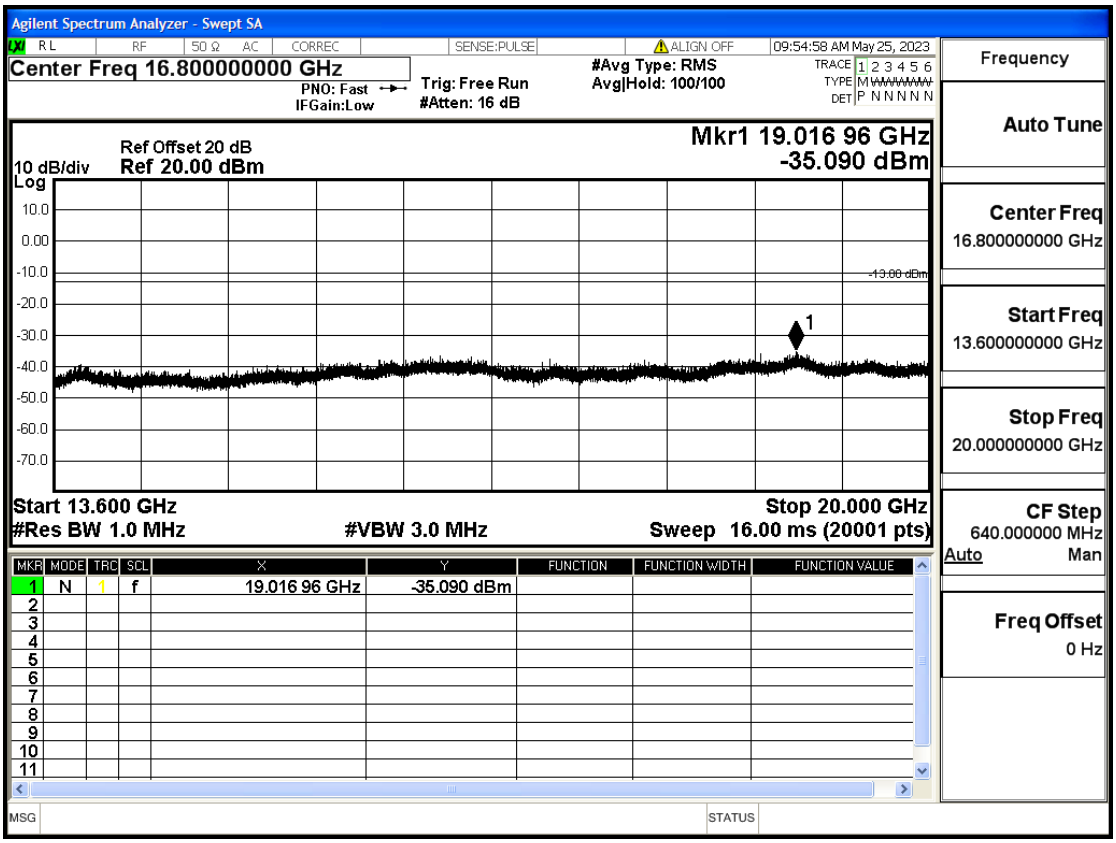
OB4-3-1711.5-Q16-15#LOW@1GHz-7GHz@Pass



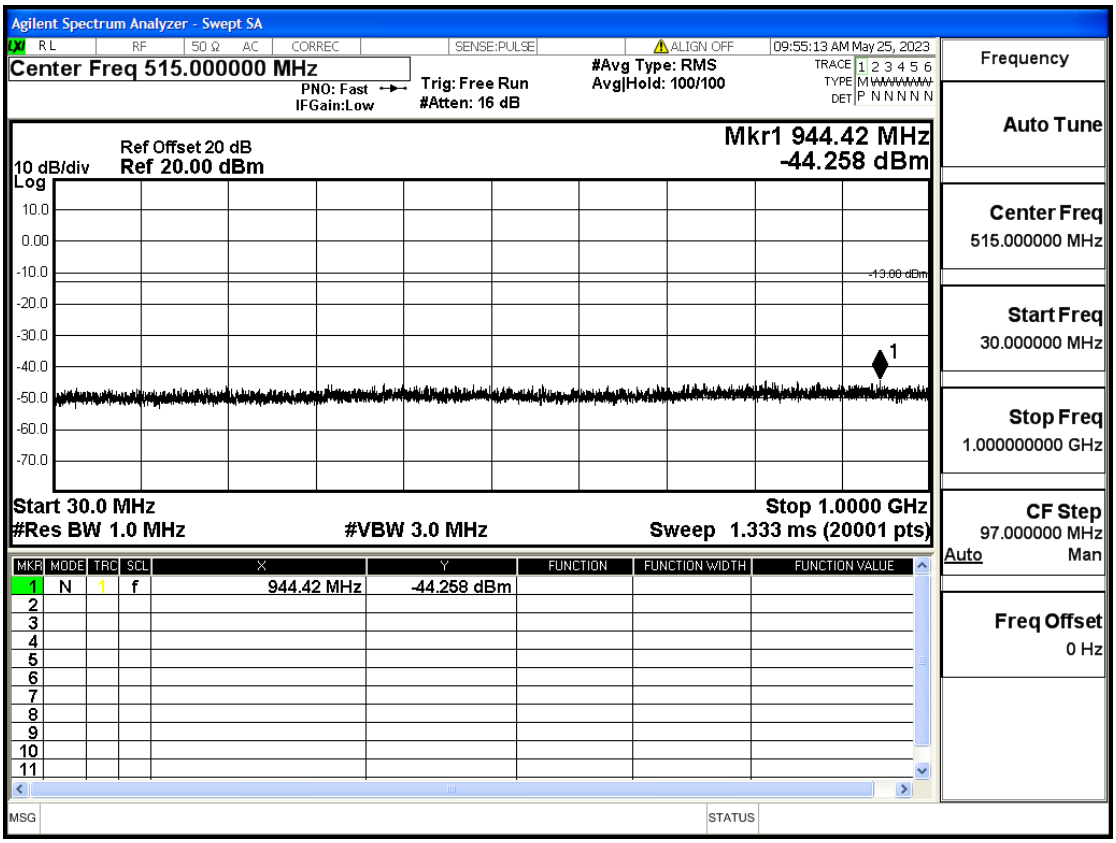
OB4-3-1711.5-Q16-15#LOW@7GHz-13.6GHz@Pass



OB4-3-1711.5-Q16-15#LOW@13.6GHz-20GHz@Pass



OB4-3-1732.5-Q16-15#LOW@30mHz-1GHz@Pass



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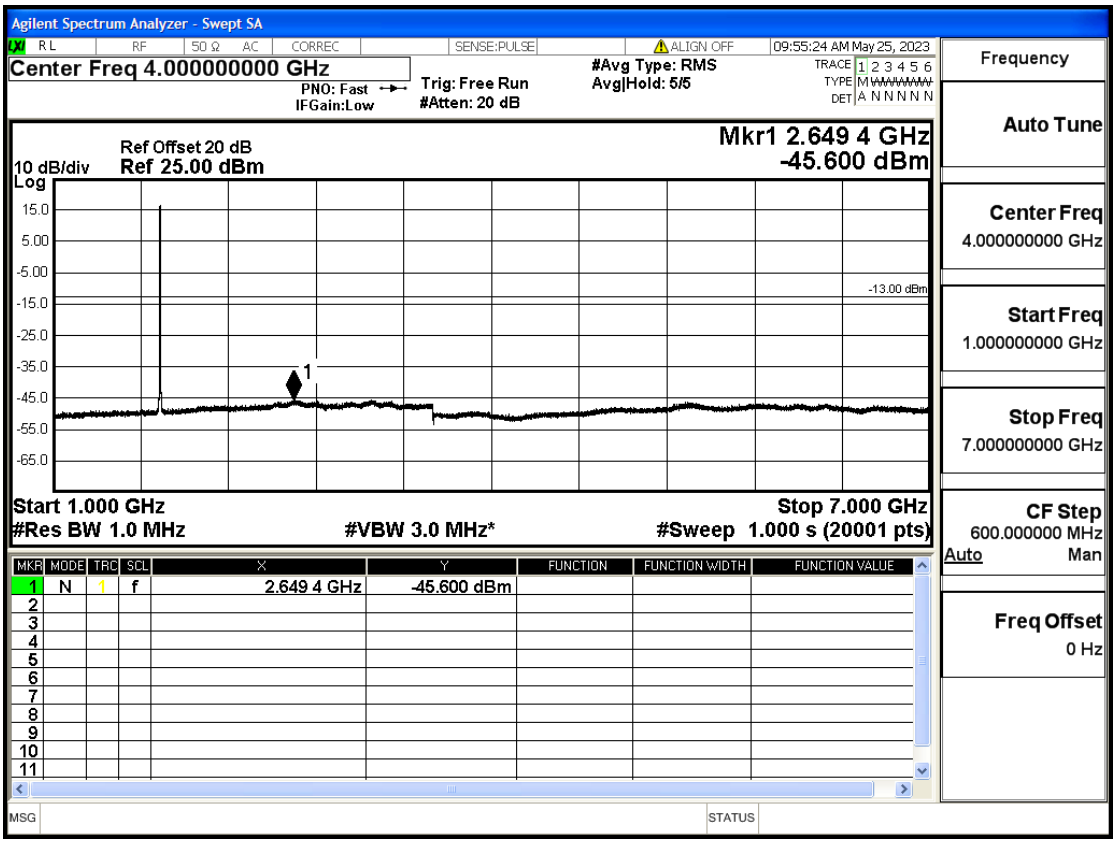
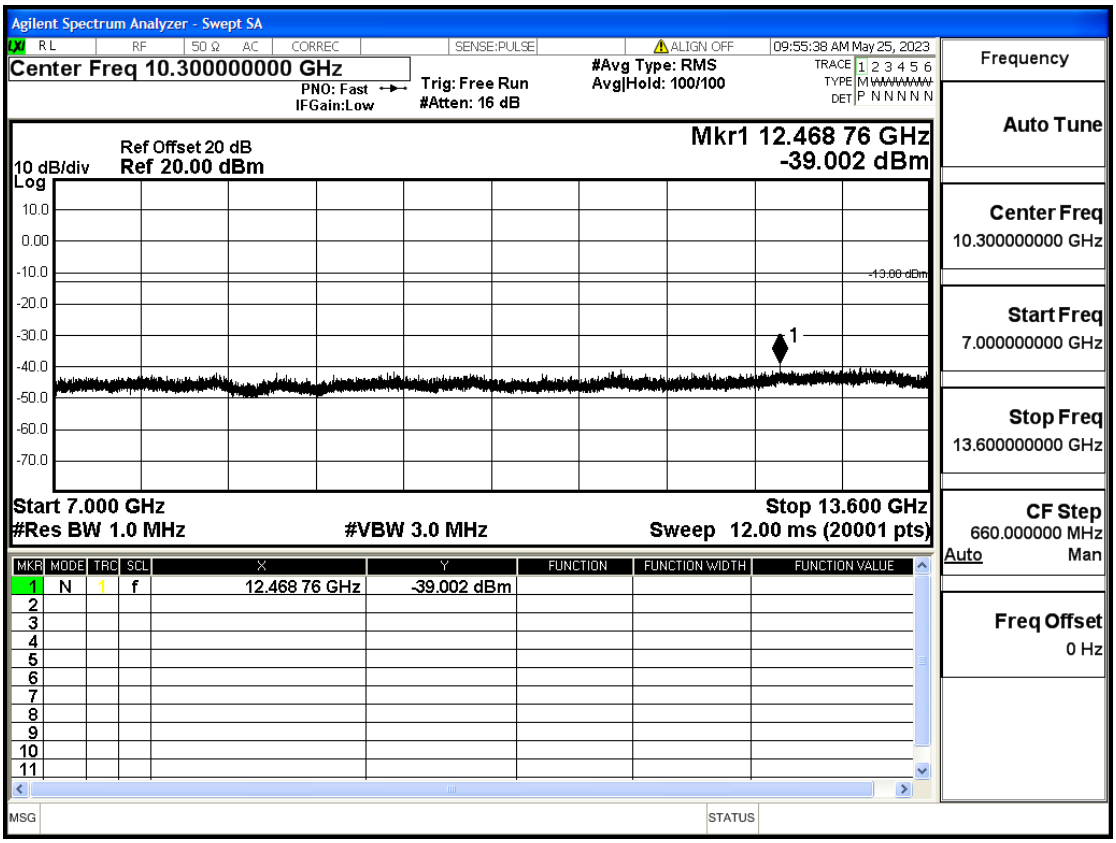
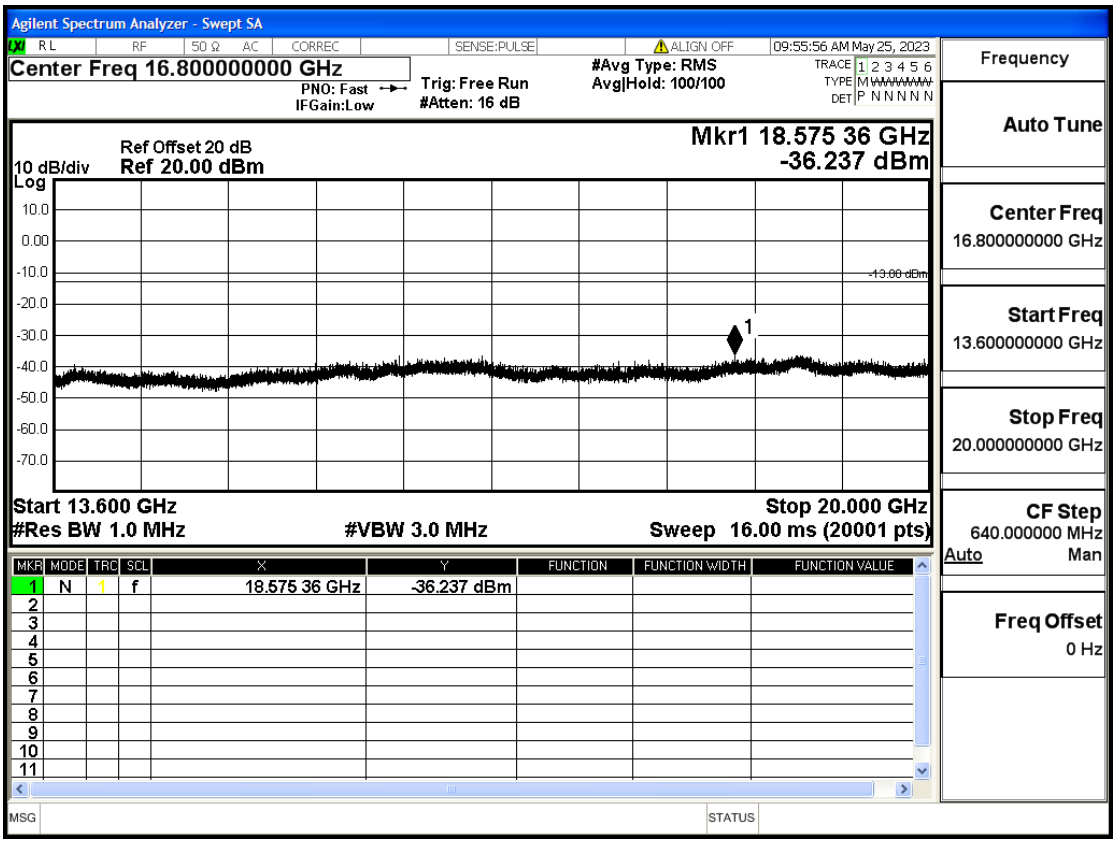


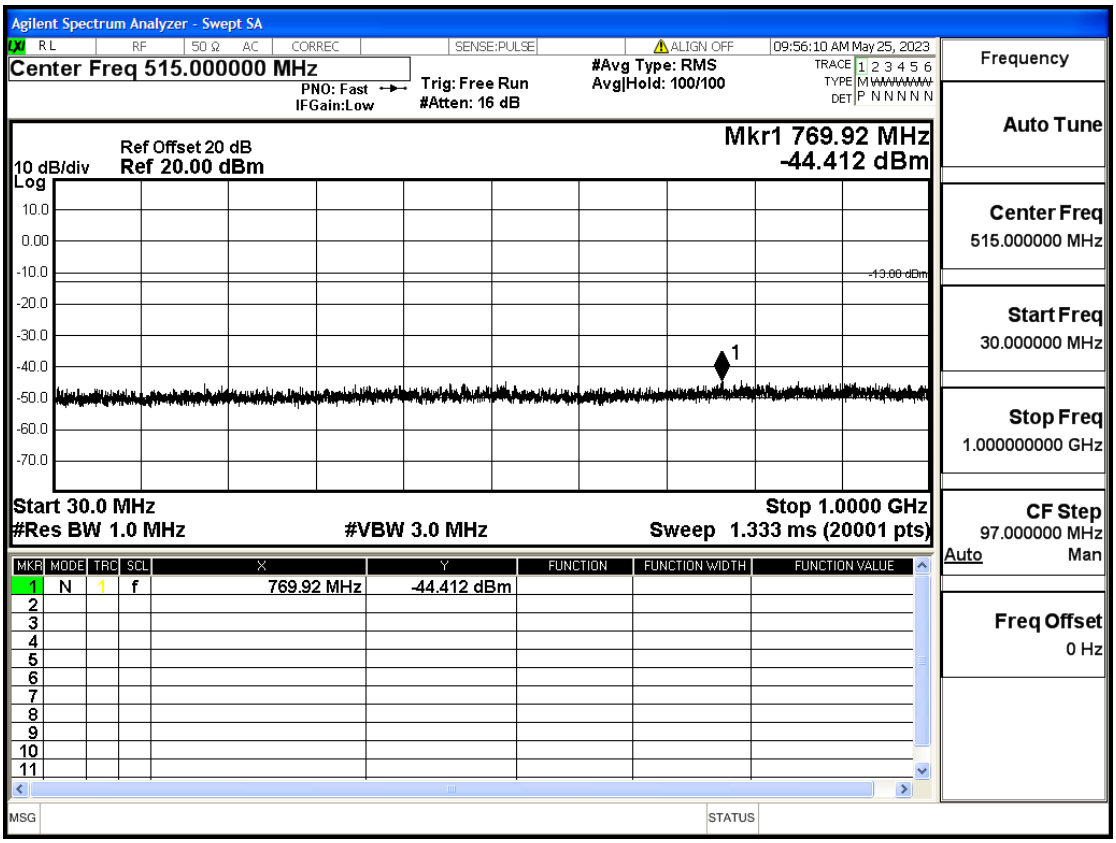
OB4-3-1732.5-Q16-15#LOW@7GHz-13.6GHz@Pass



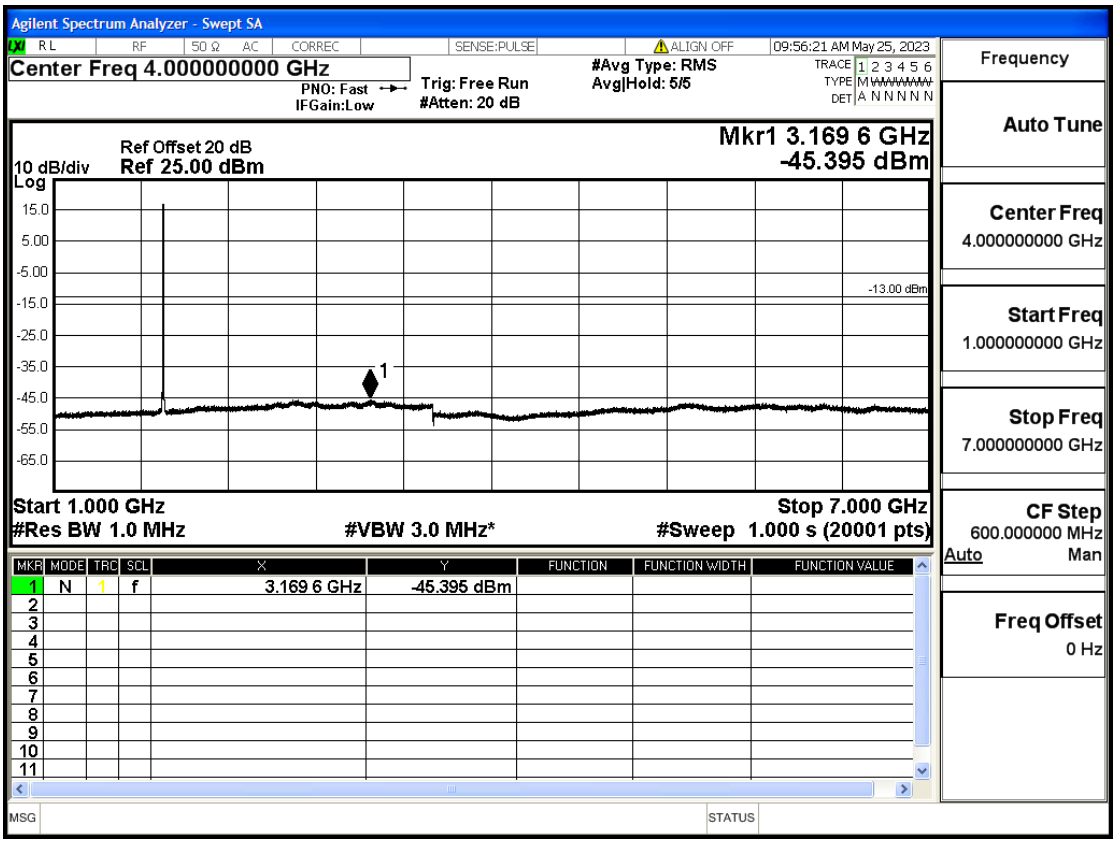
OB4-3-1732.5-Q16-15#LOW@13.6GHz-20GHz@Pass



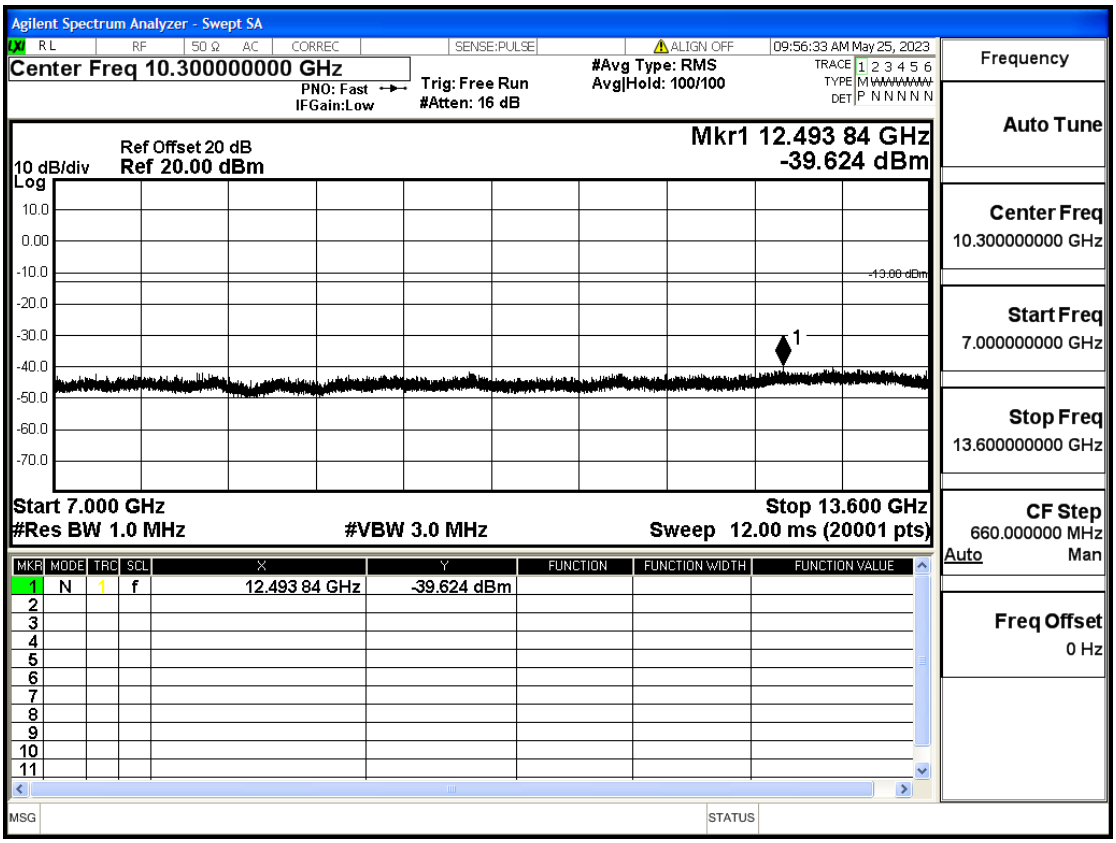
OB4-3-1753.5-Q16-15#LOW@30mHz-1GHz@Pass



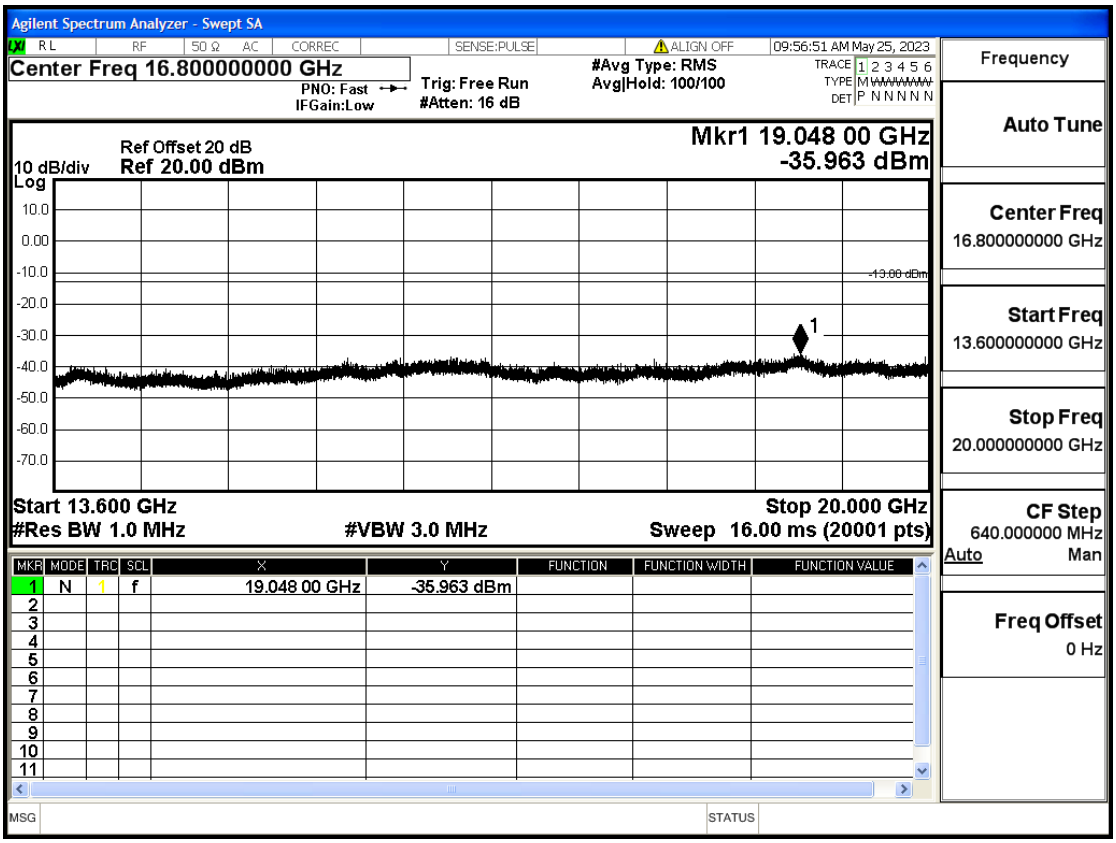
OB4-3-1753.5-Q16-15#LOW@1GHz-7GHz@Pass



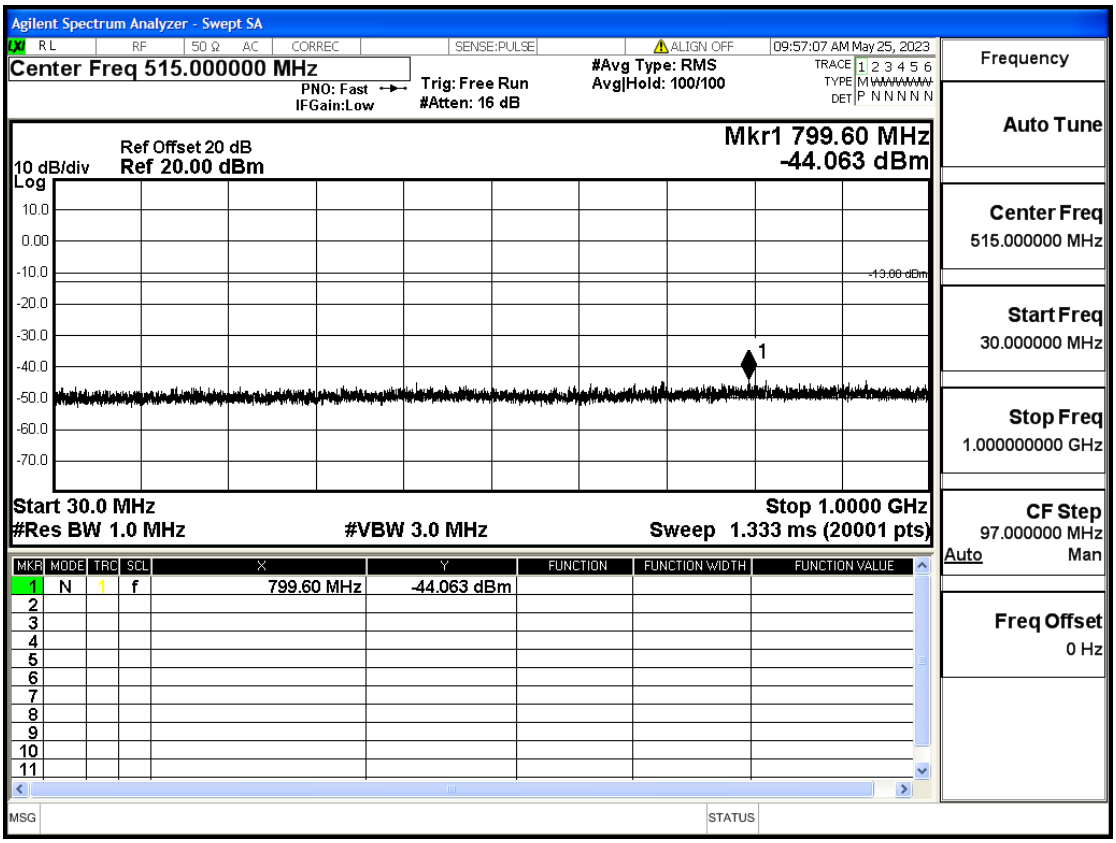
OB4-3-1753.5-Q16-15#LOW@7GHz-13.6GHz@Pass



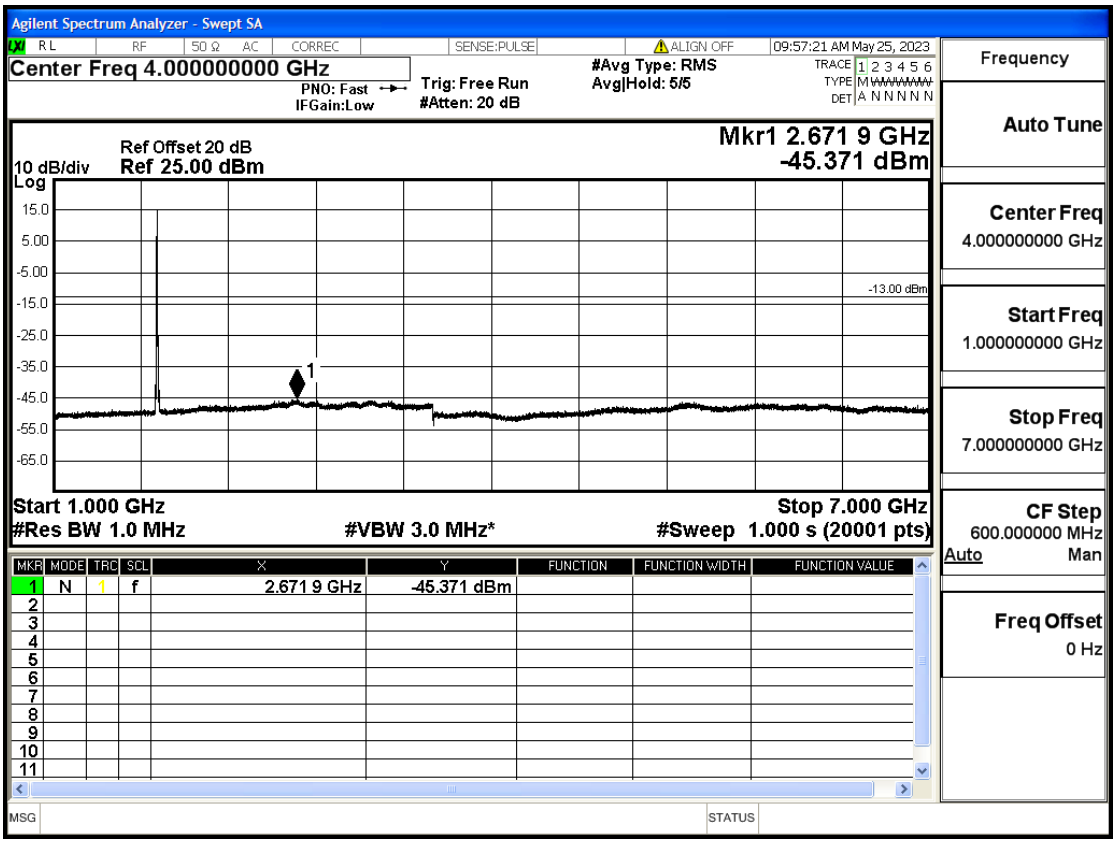
OB4-3-1753.5-Q16-15#LOW@13.6GHz-20GHz@Pass



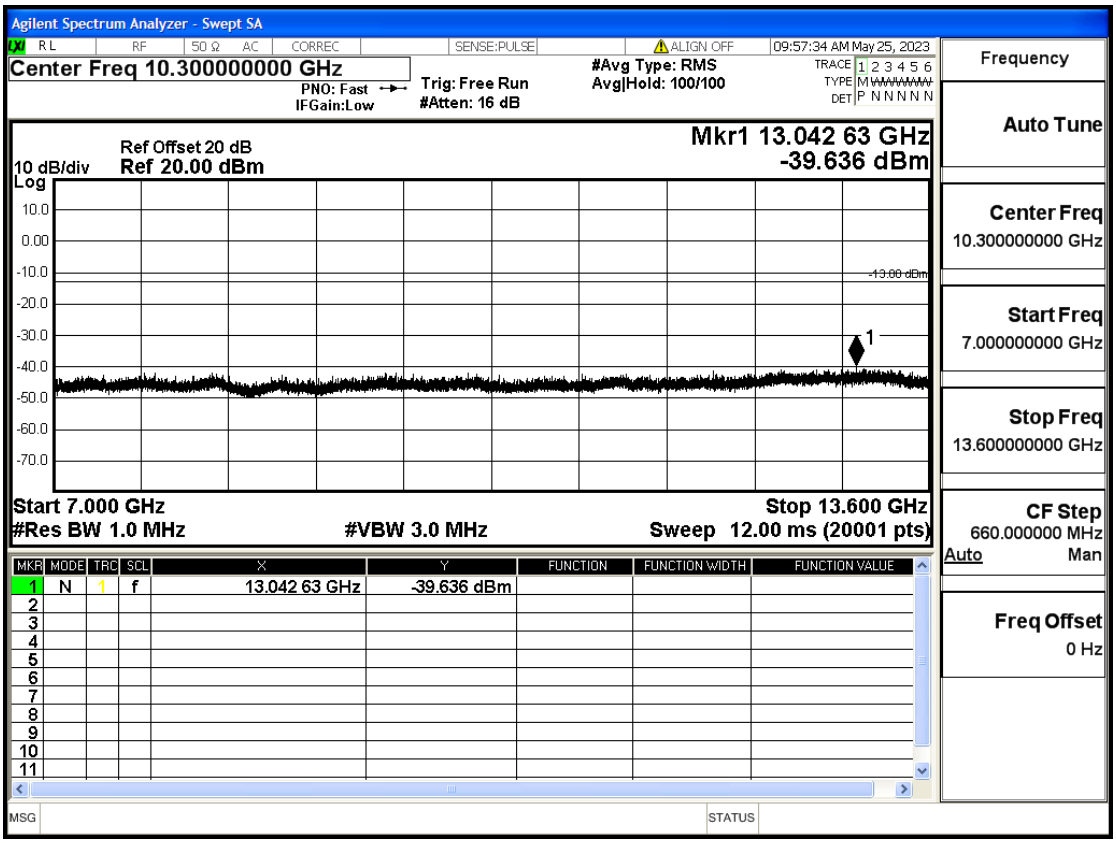
OB4-5-1712.5-Q16-25#LOW@30mHz-1GHz@Pass



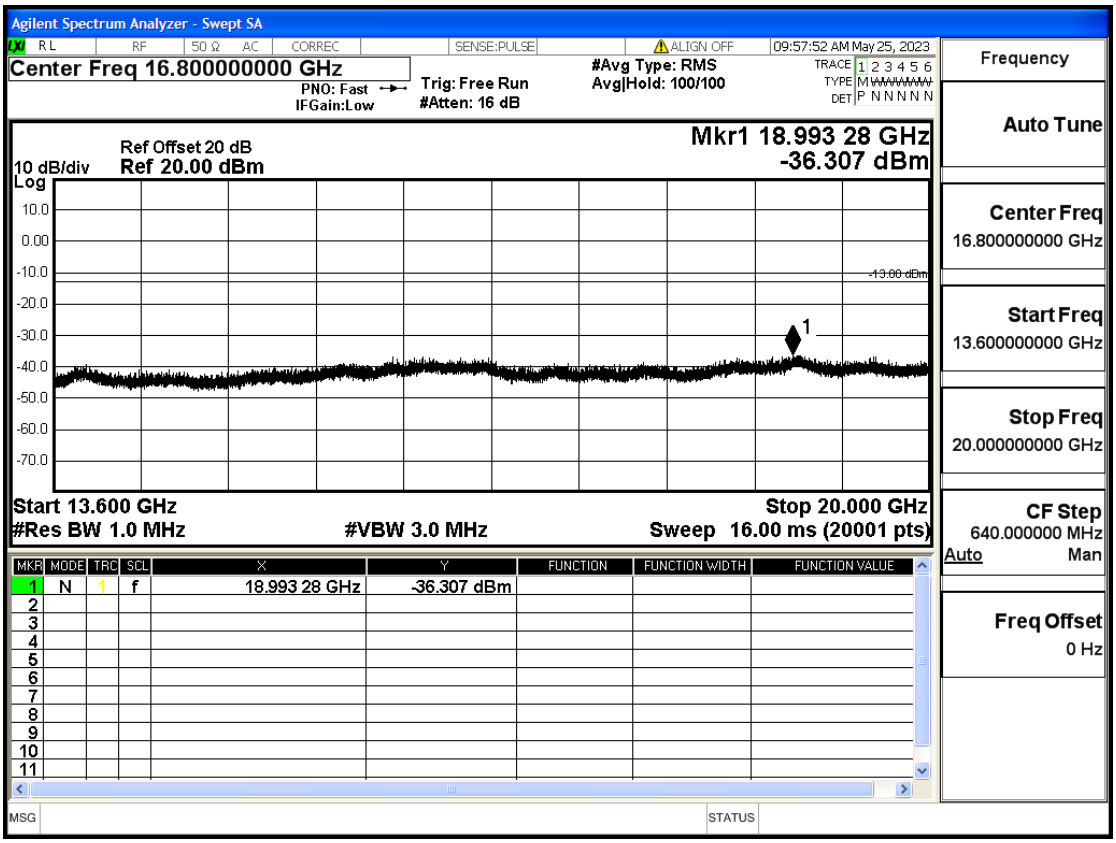
OB4-5-1712.5-Q16-25#LOW@1GHz-7GHz@Pass



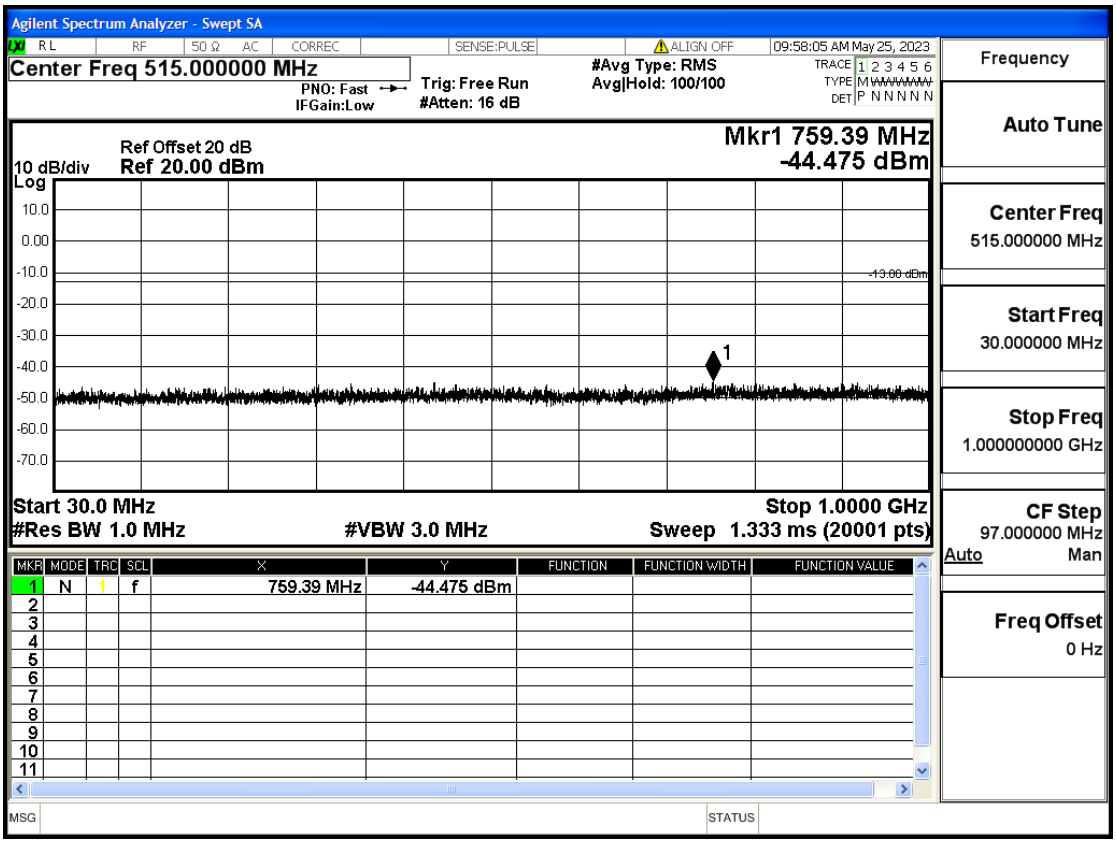
OB4-5-1712.5-Q16-25#LOW@7GHz-13.6GHz@Pass



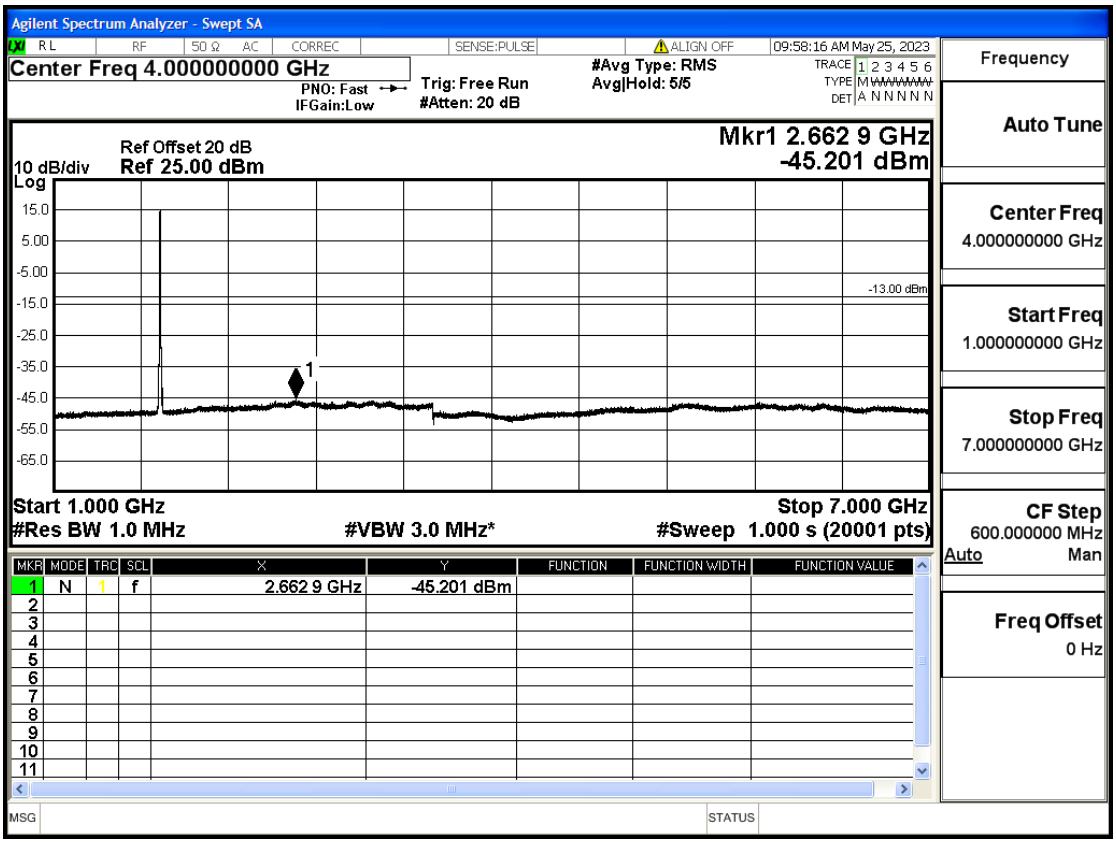
OB4-5-1712.5-Q16-25#LOW@13.6GHz-20GHz@Pass



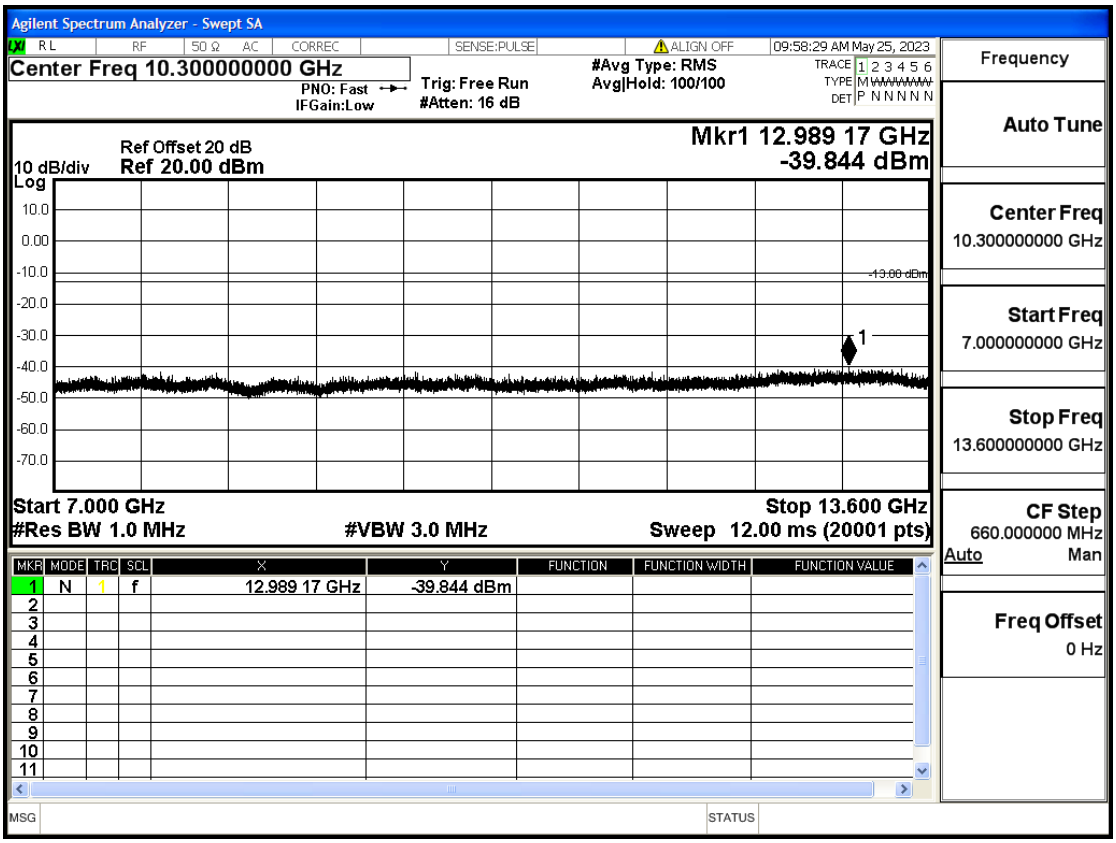
OB4-5-1732.5-Q16-25#LOW@30mHz-1GHz@Pass



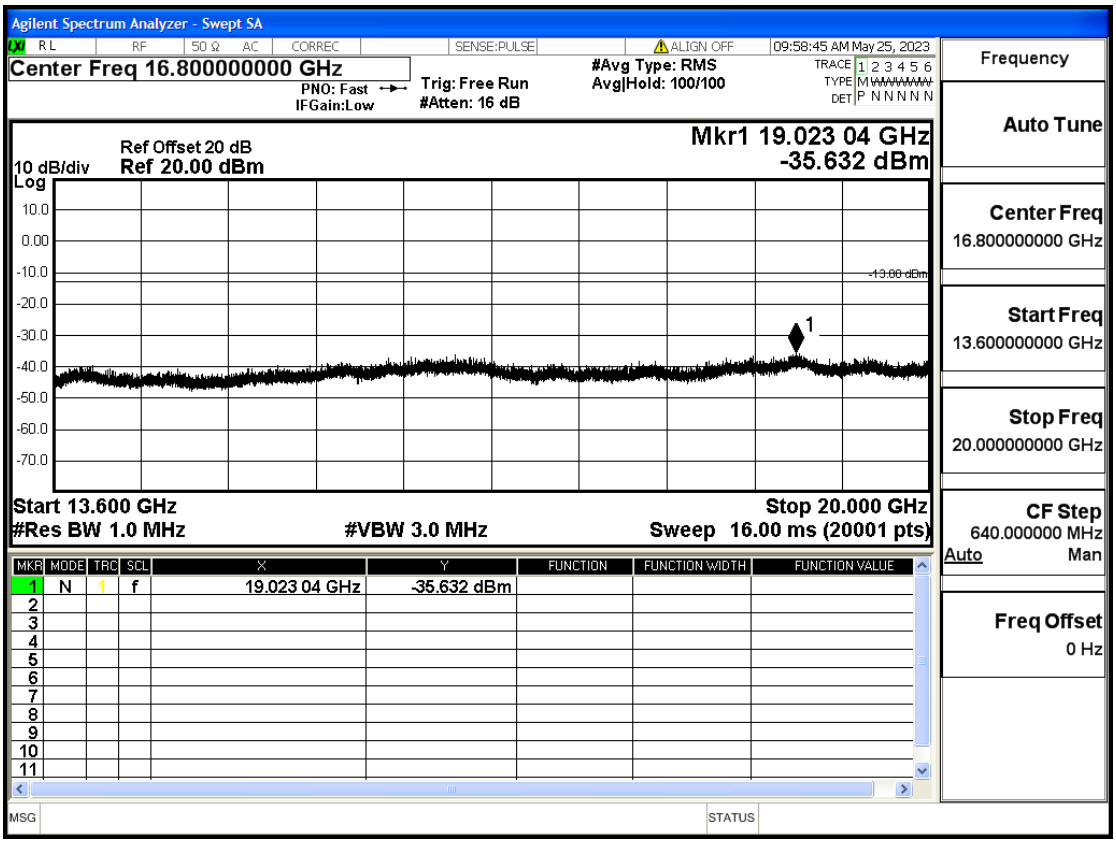
OB4-5-1732.5-Q16-25#LOW@1GHz-7GHz@Pass



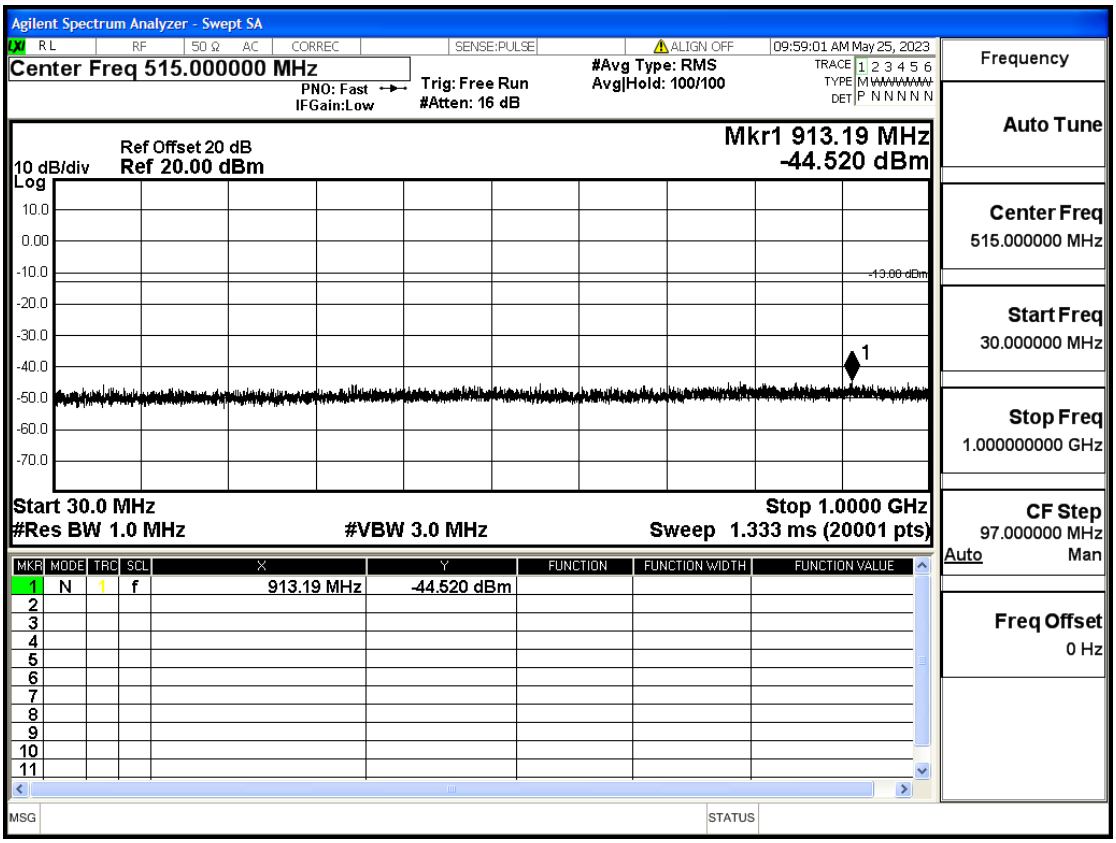
OB4-5-1732.5-Q16-25#LOW@7GHz-13.6GHz@Pass



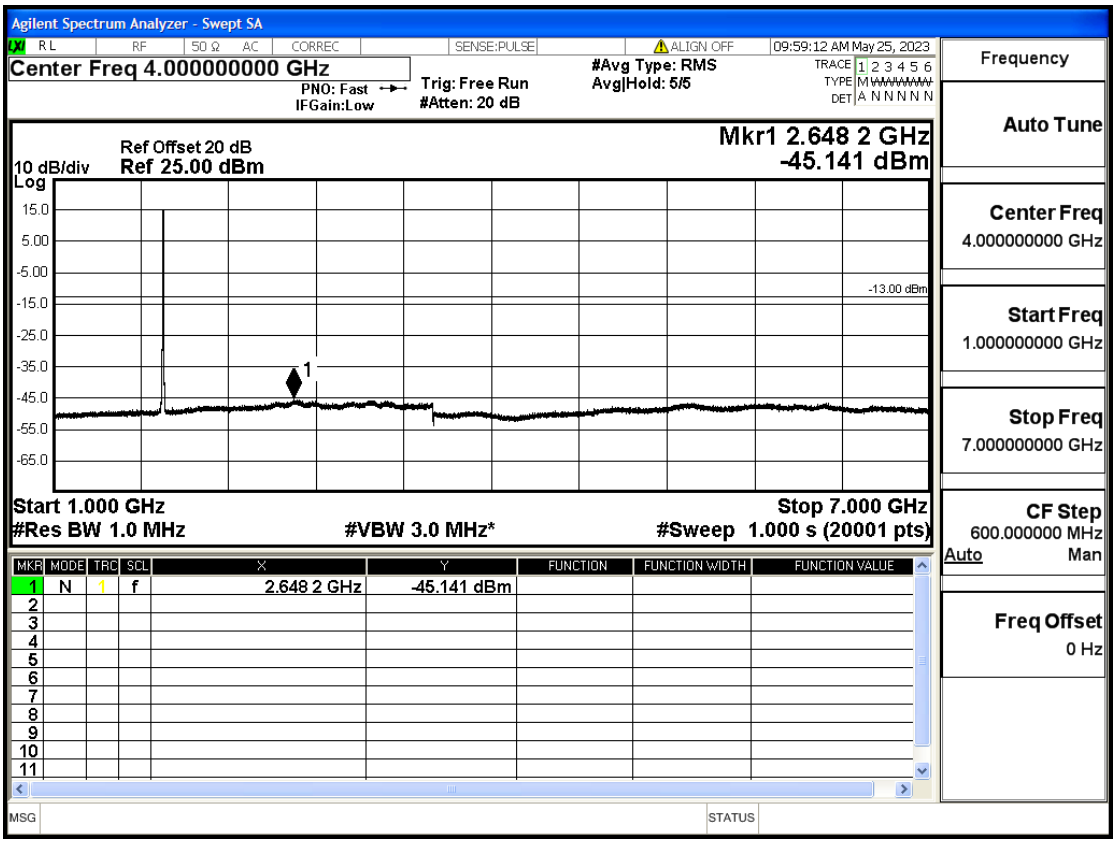
OB4-5-1732.5-Q16-25#LOW@13.6GHz-20GHz@Pass



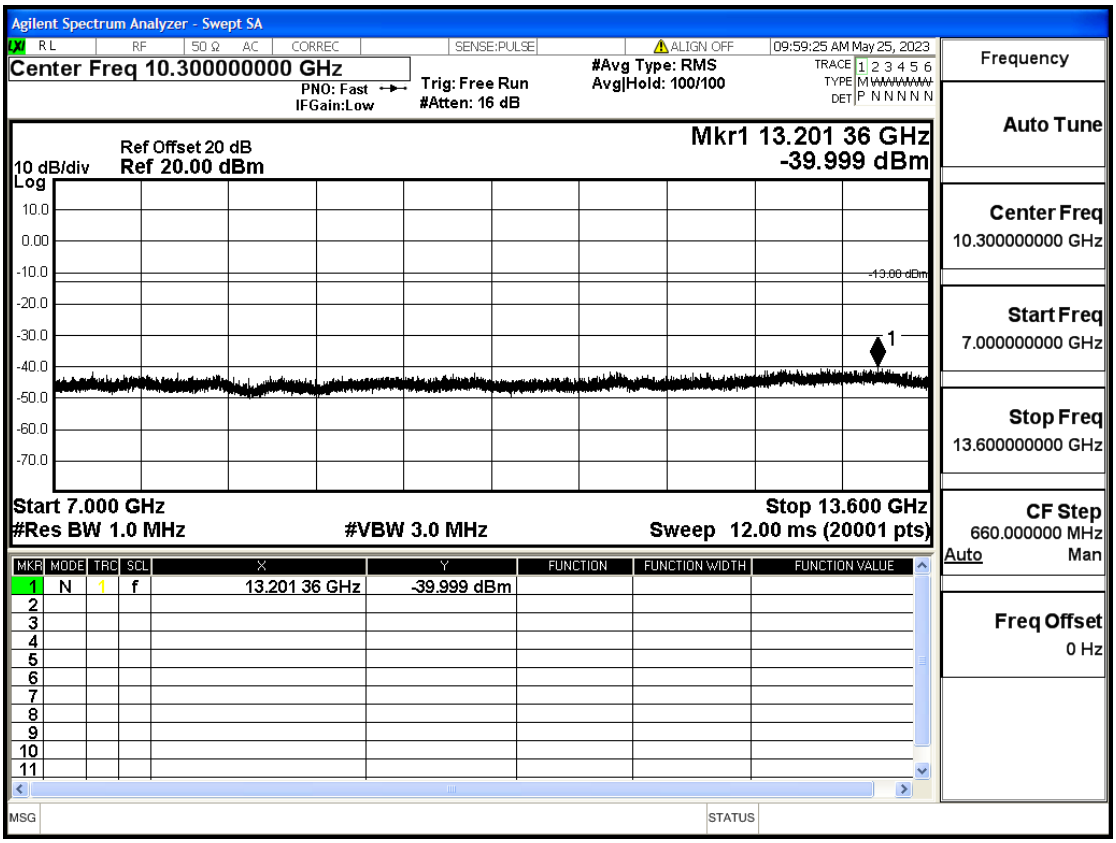
OB4-5-1752.5-Q16-25#LOW@30mHz-1GHz@Pass



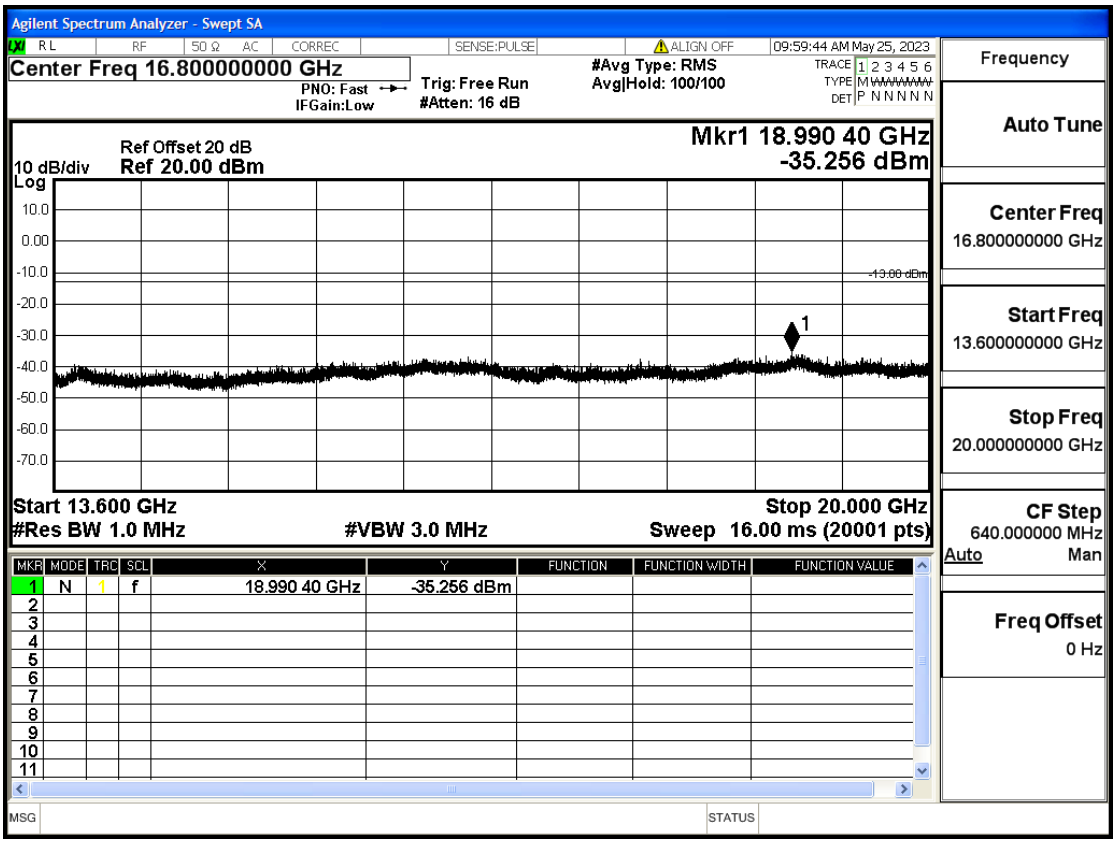
OB4-5-1752.5-Q16-25#LOW@1GHz-7GHz@Pass



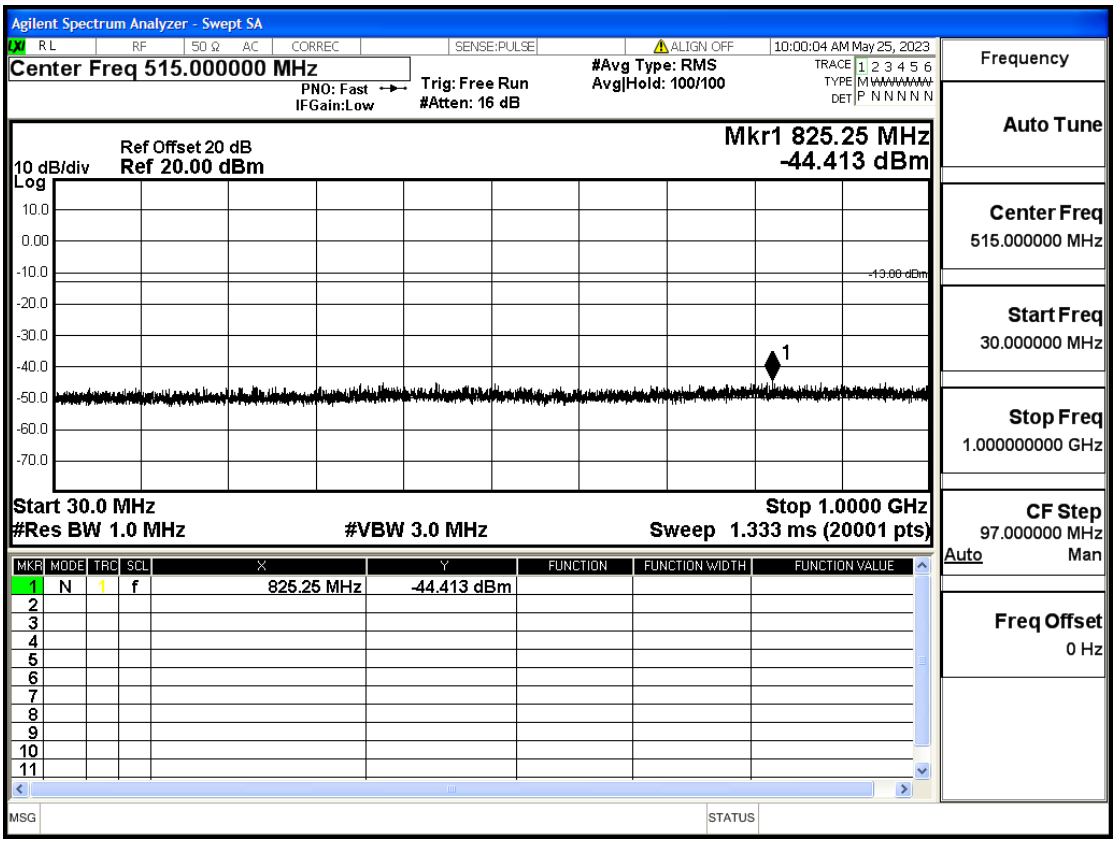
OB4-5-1752.5-Q16-25#LOW@7GHz-13.6GHz@Pass



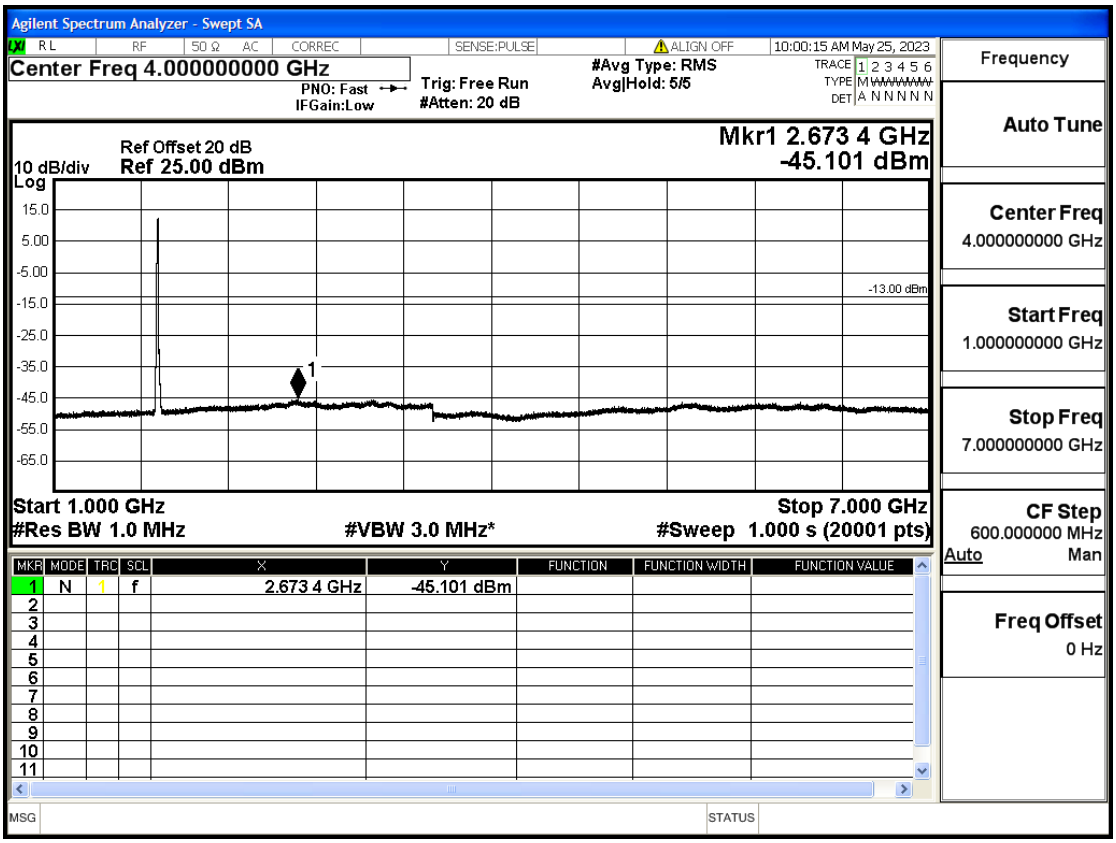
OB4-5-1752.5-Q16-25#LOW@13.6GHz-20GHz@Pass



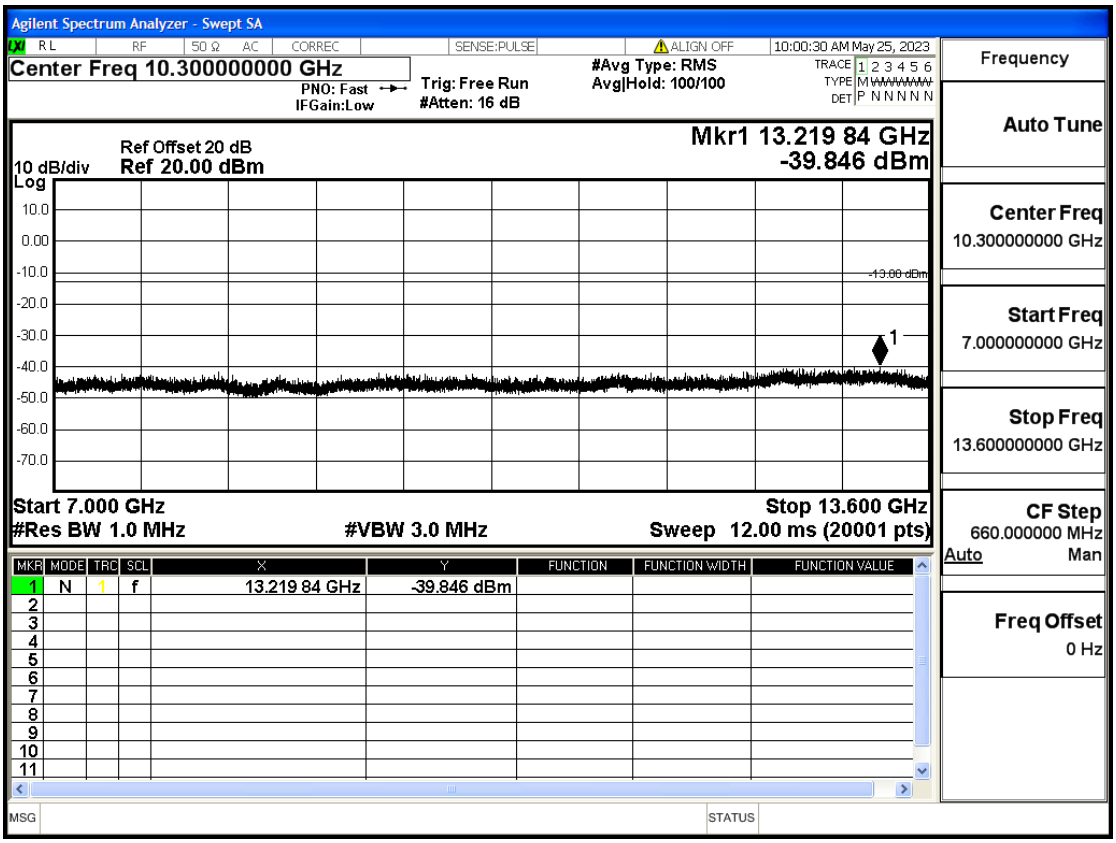
OB4-10-1715-Q16-50#LOW@30mHz-1GHz@Pass



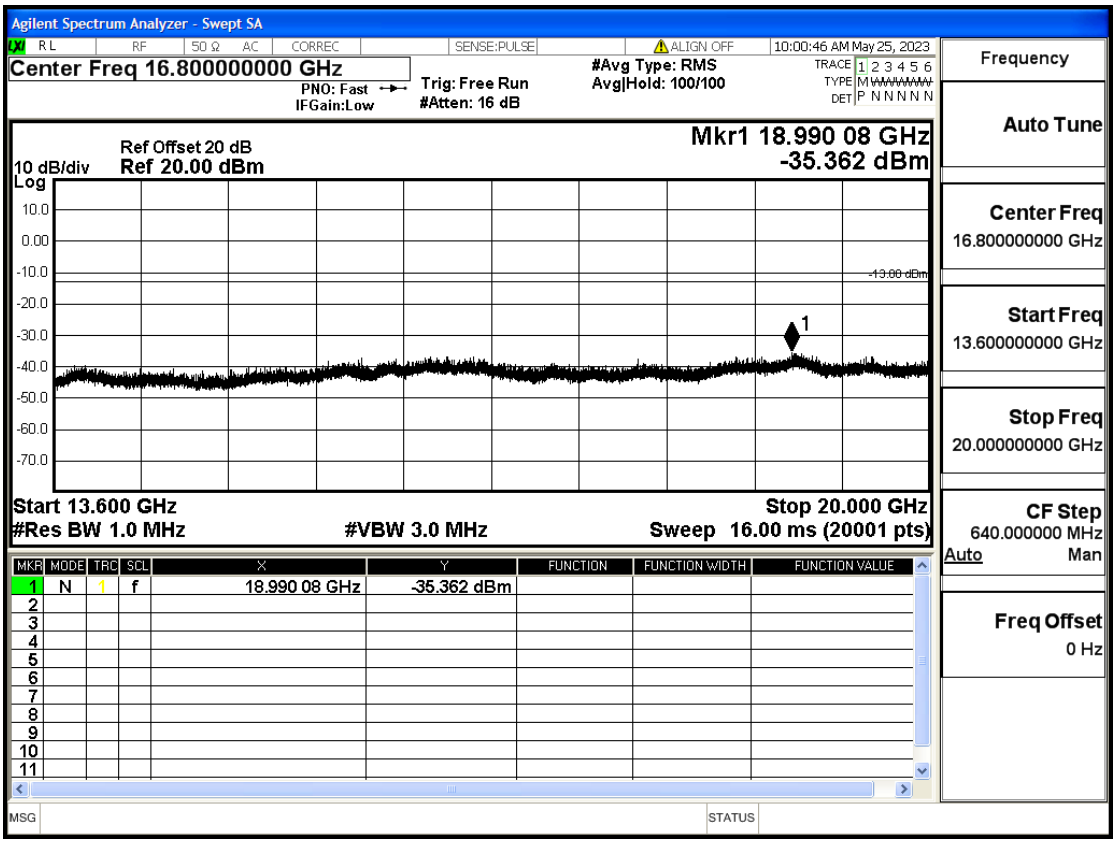
OB4-10-1715-Q16-50#LOW@1GHz-7GHz@Pass



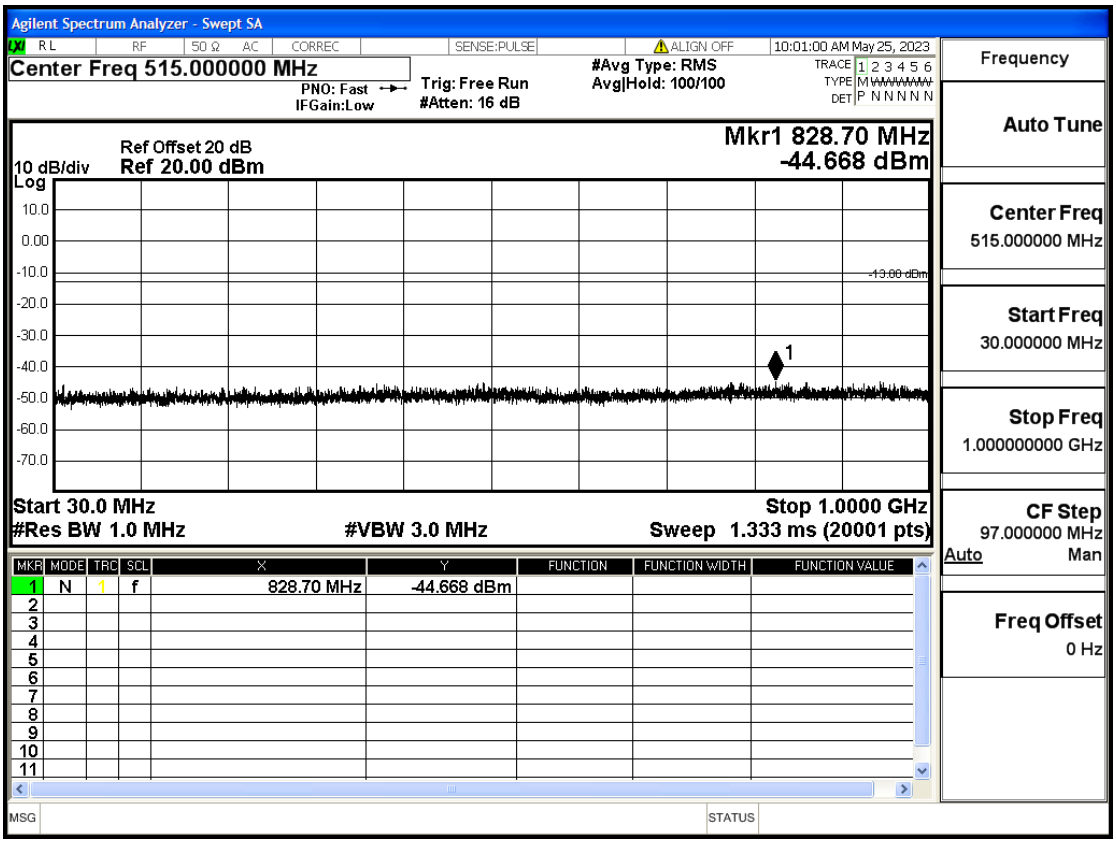
OB4-10-1715-Q16-50#LOW@7GHz-13.6GHz@Pass



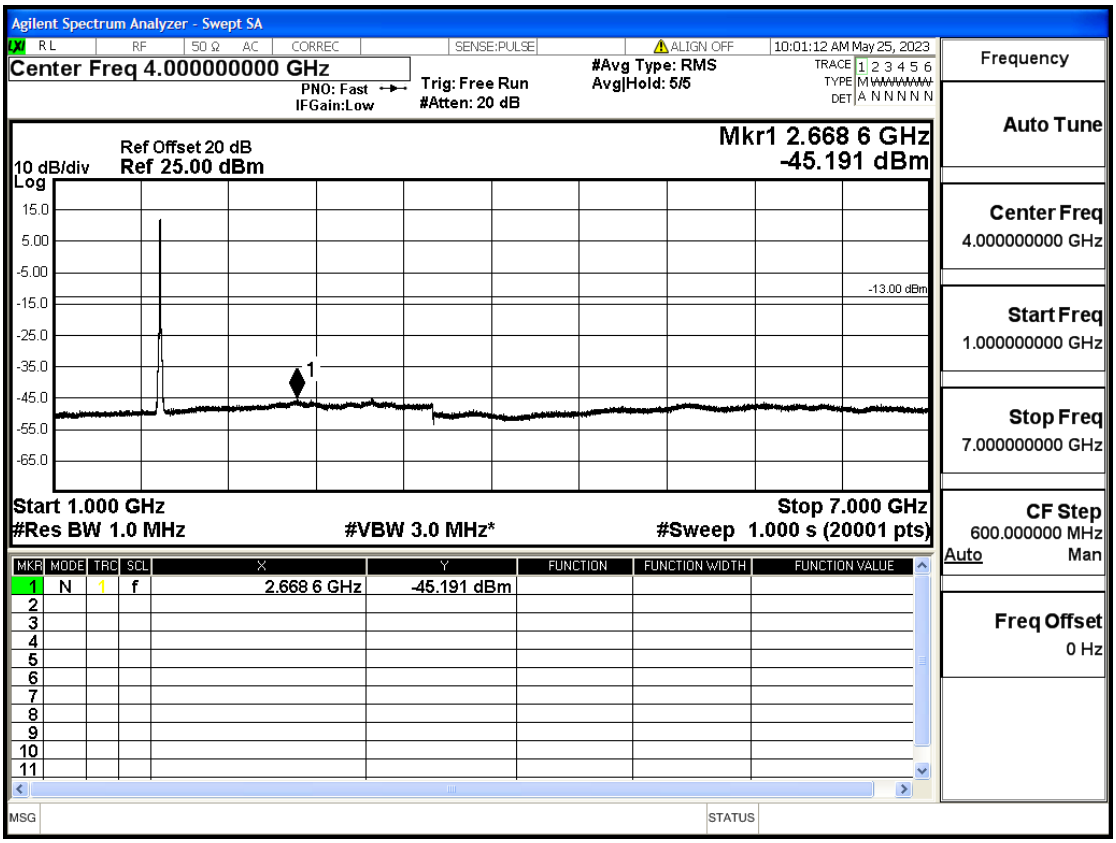
OB4-10-1715-Q16-50#LOW@13.6GHz-20GHz@Pass



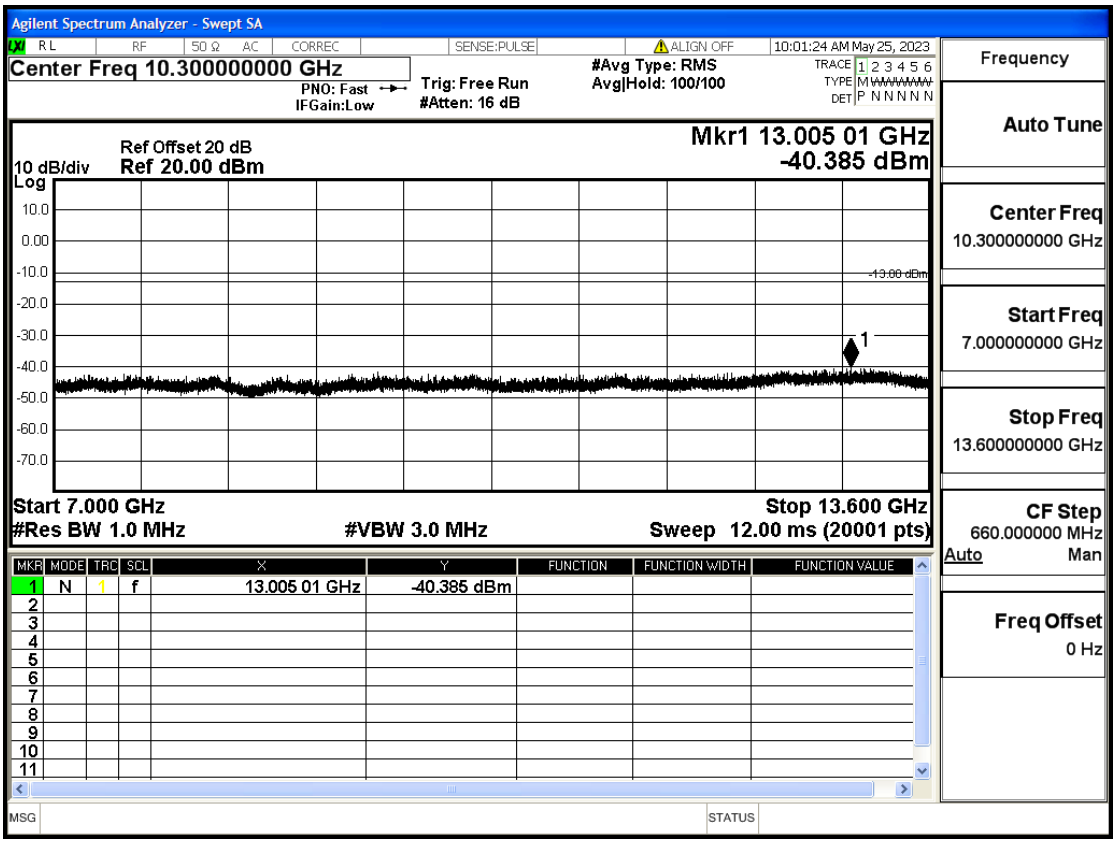
OB4-10-1732.5-Q16-50#LOW@30mHz-1GHz@Pass



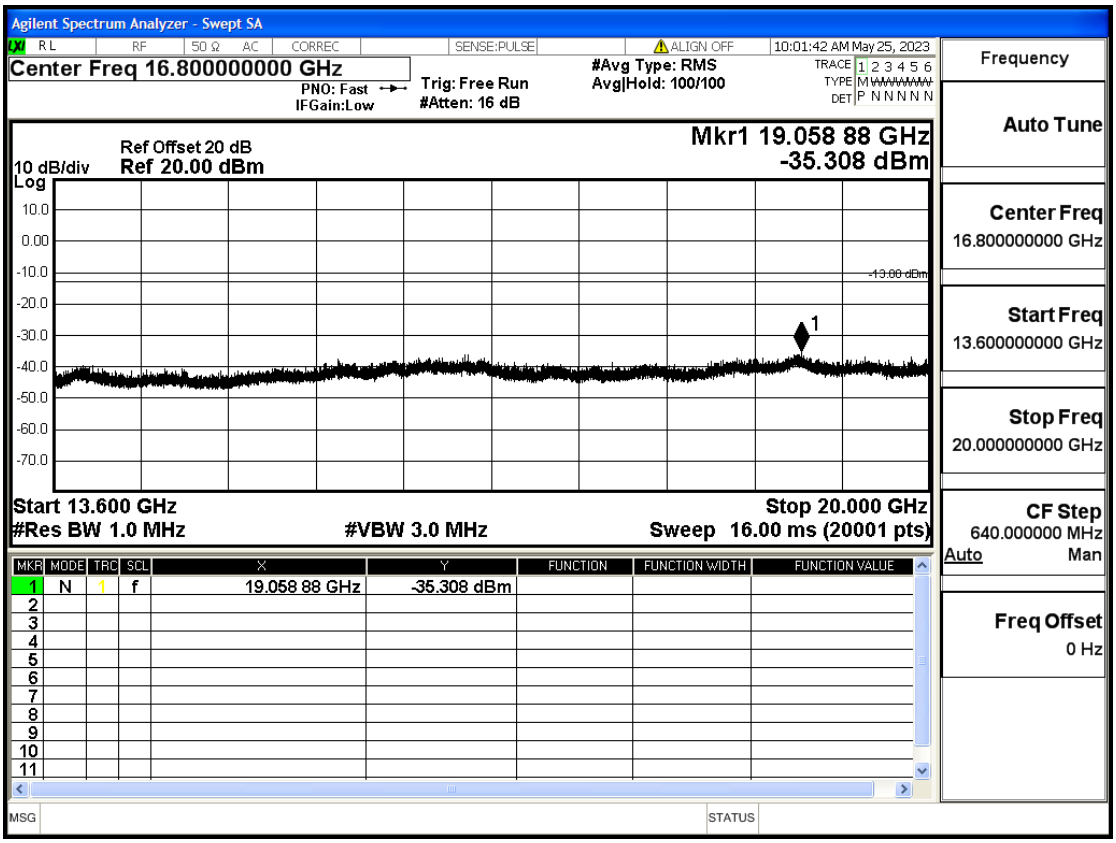
OB4-10-1732.5-Q16-50#LOW@1GHz-7GHz@Pass



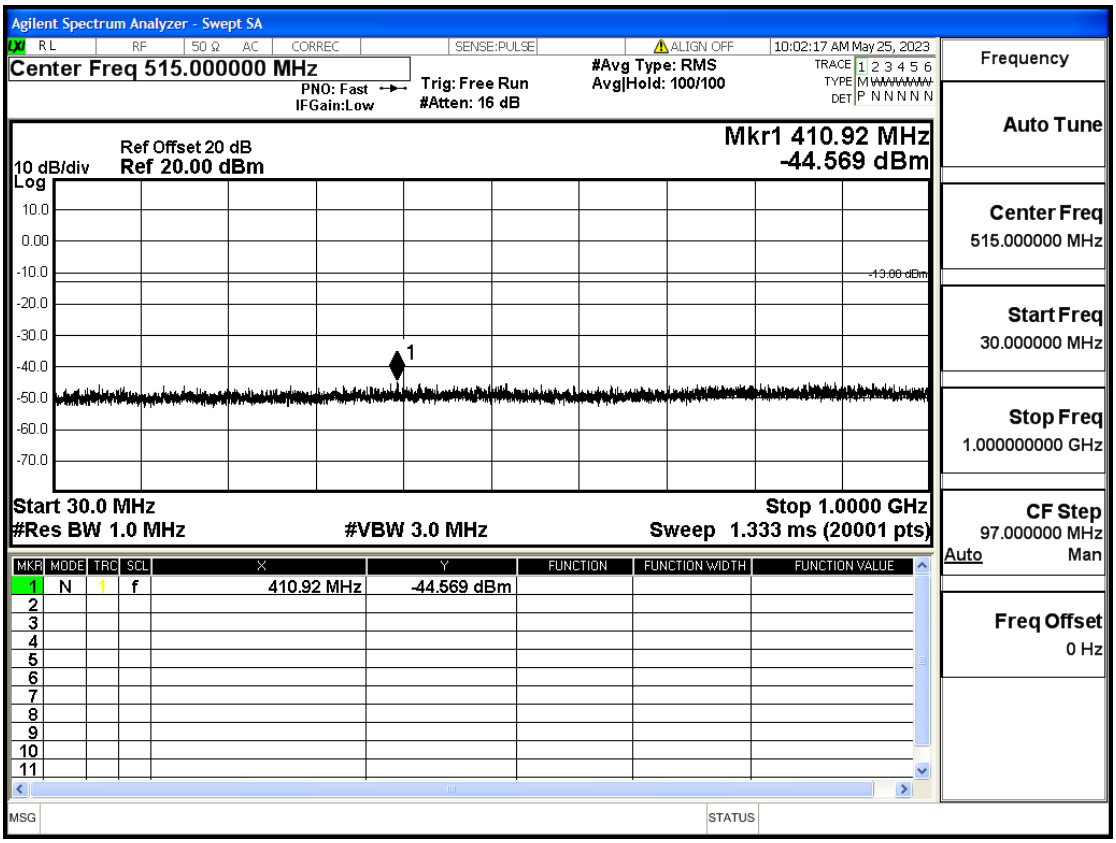
OB4-10-1732.5-Q16-50#LOW@7GHz-13.6GHz@Pass



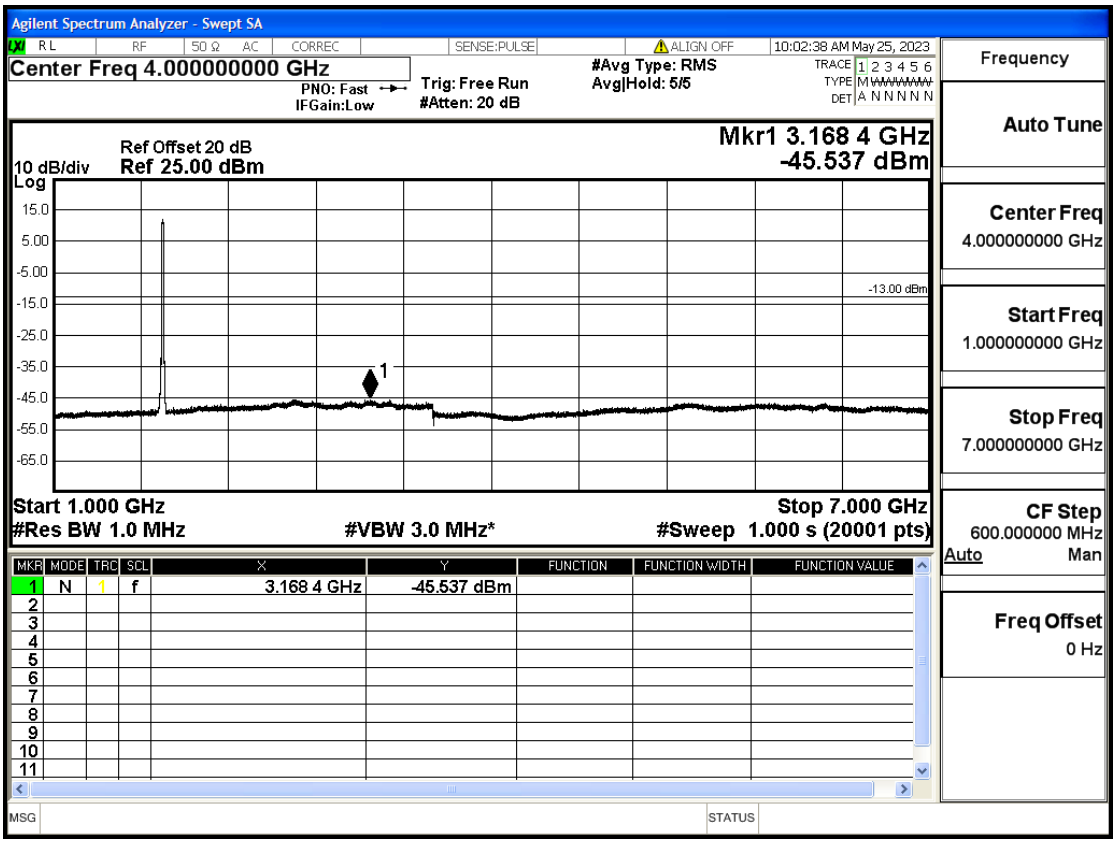
OB4-10-1732.5-Q16-50#LOW@13.6GHz-20GHz@Pass



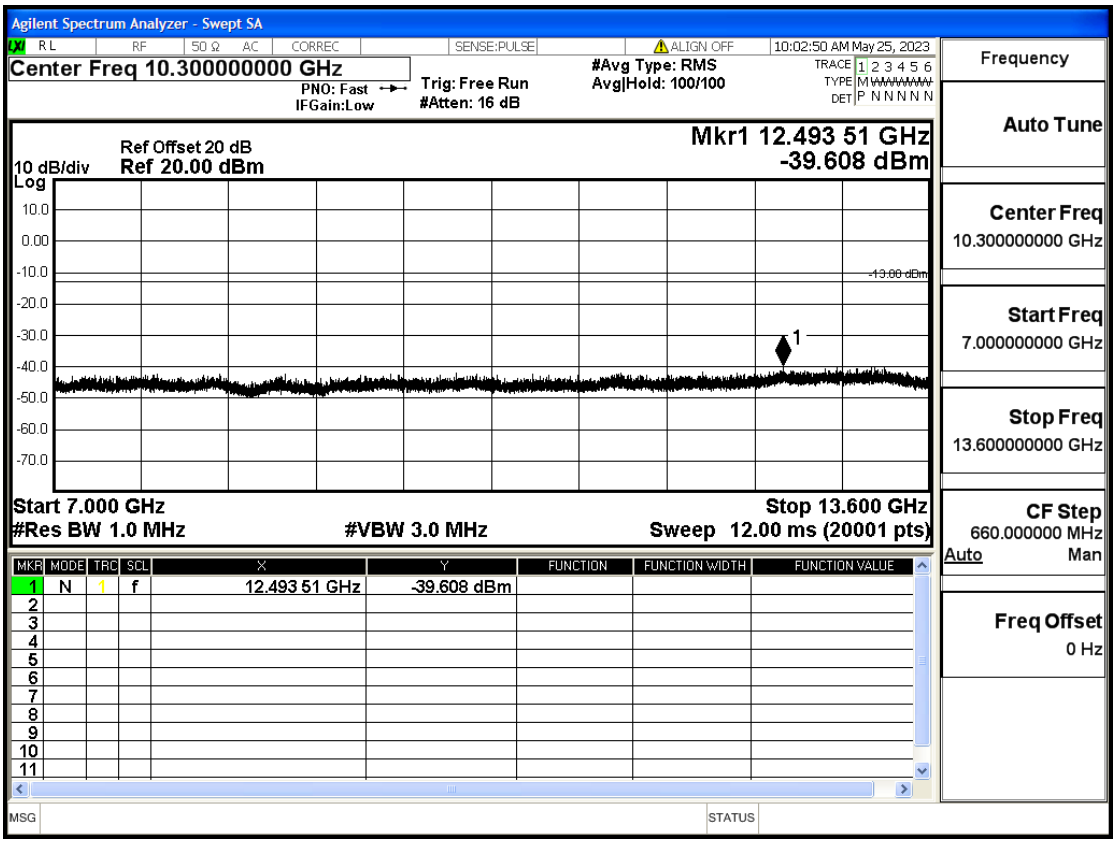
OB4-10-1750-Q16-50#LOW@30mHz-1GHz@Pass



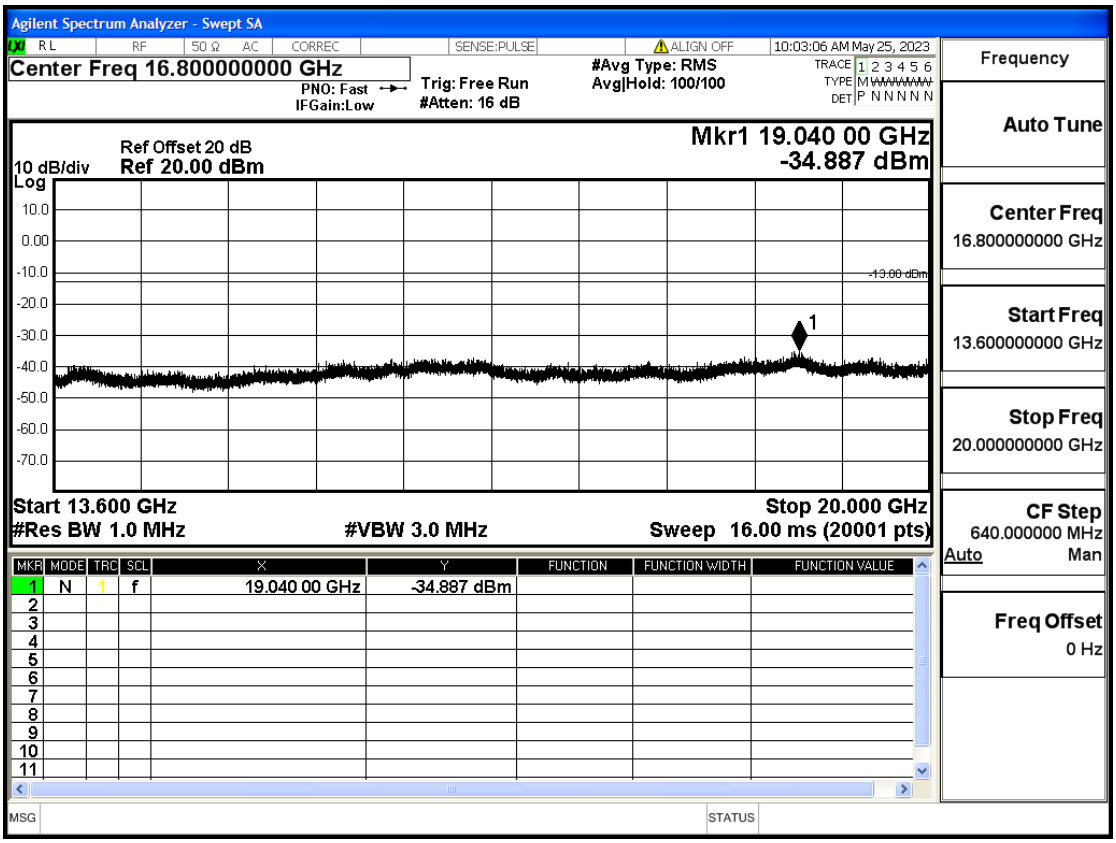
OB4-10-1750-Q16-50#LOW@1GHz-7GHz@Pass



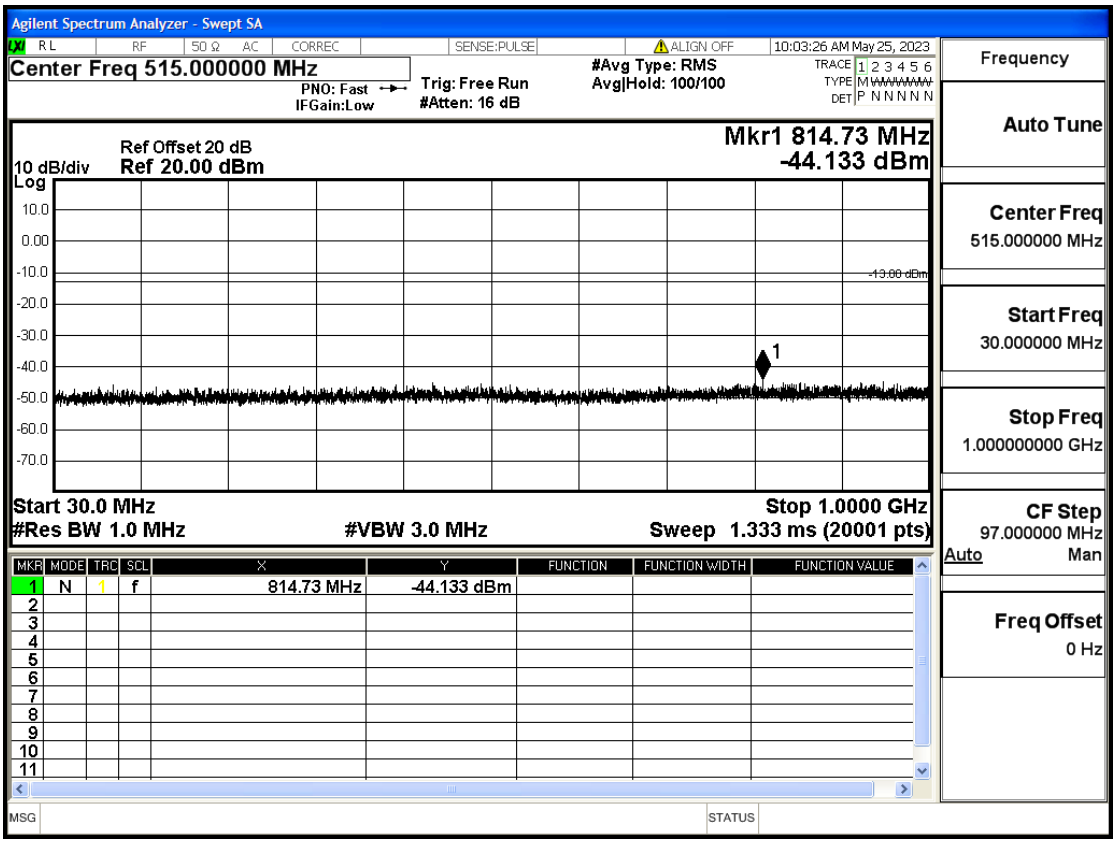
OB4-10-1750-Q16-50#LOW@7GHz-13.6GHz@Pass



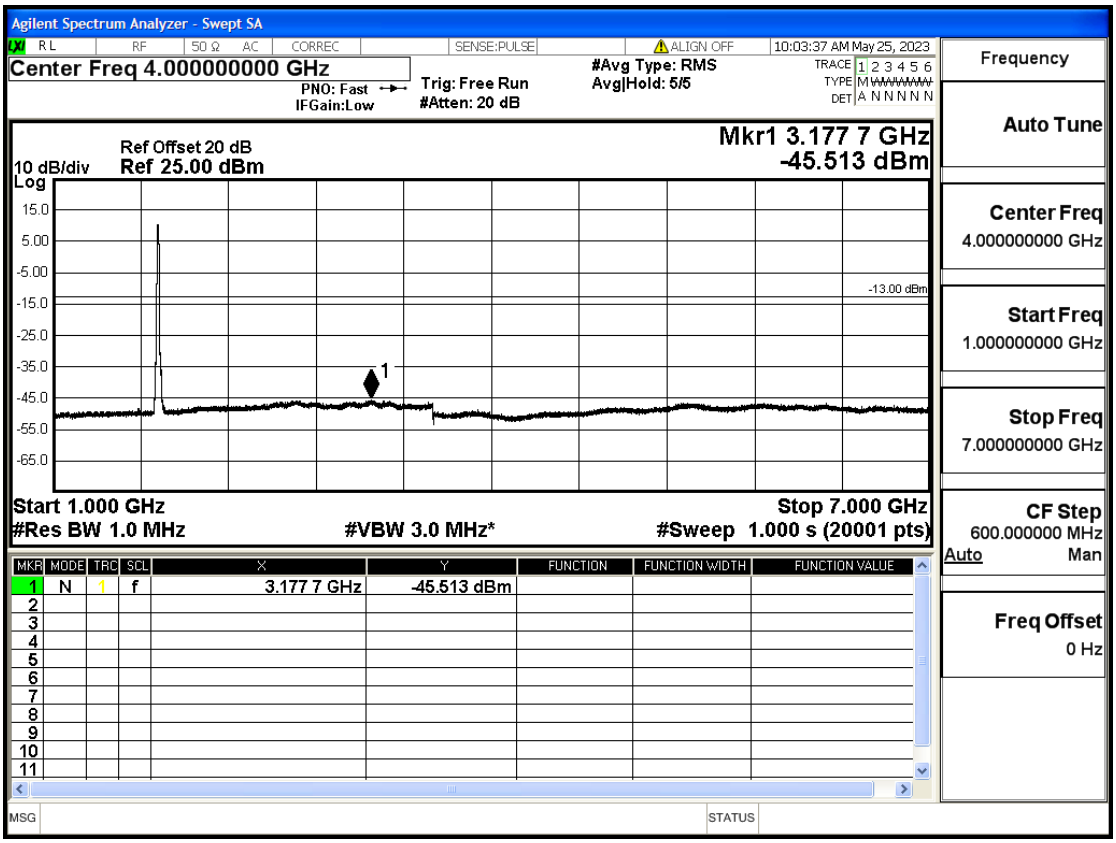
OB4-10-1750-Q16-50#LOW@13.6GHz-20GHz@Pass



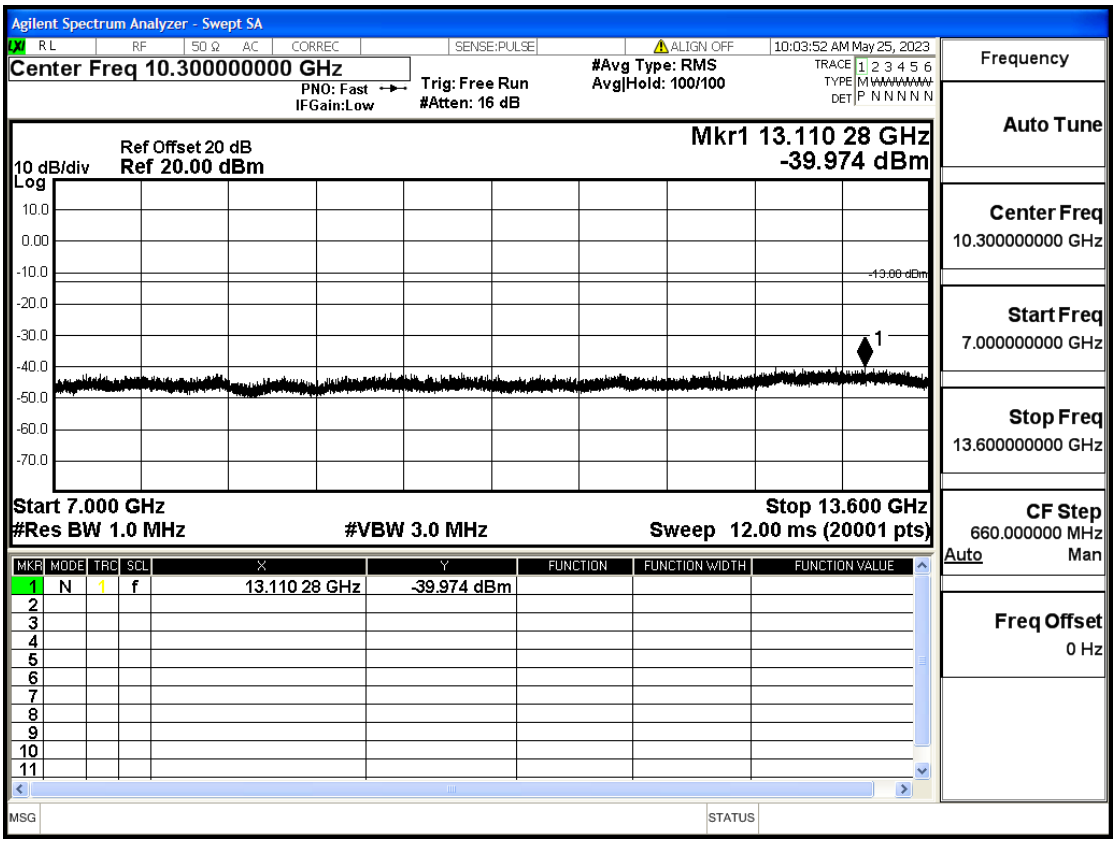
OB4-15-1717.5-Q16-75#LOW@30mHz-1GHz@Pass



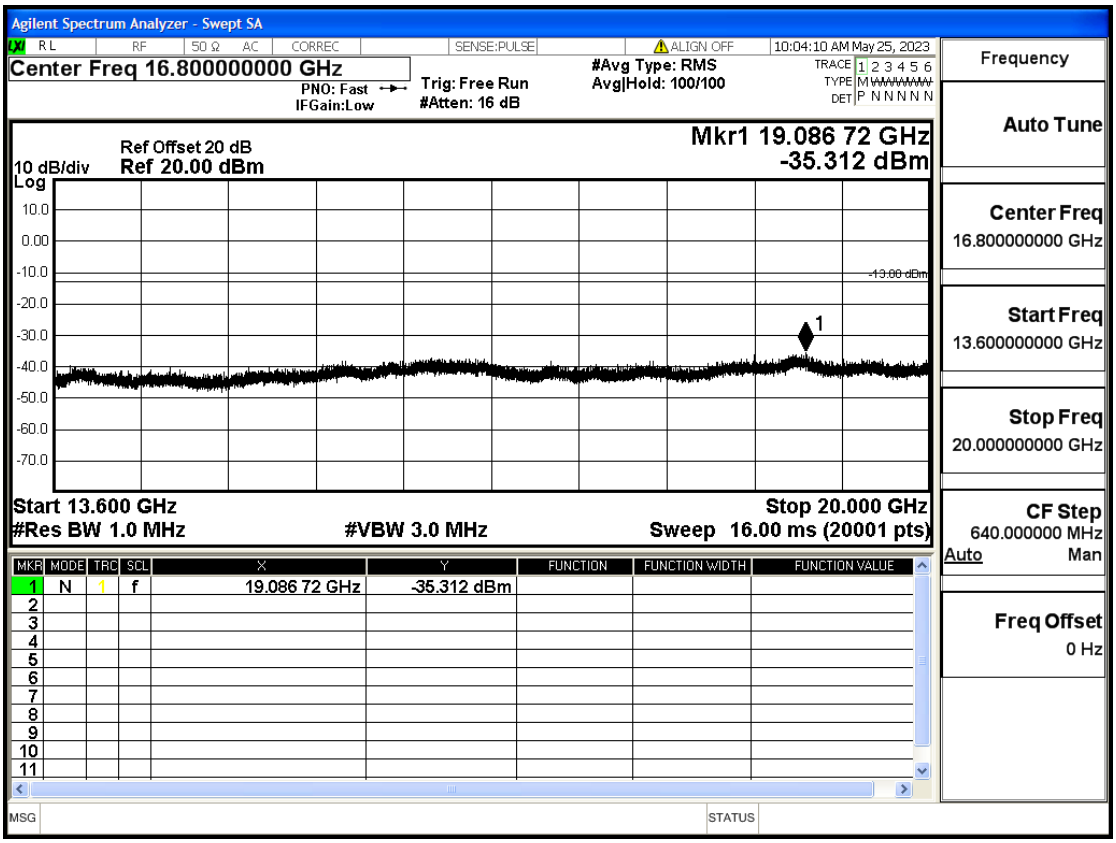
OB4-15-1717.5-Q16-75#LOW@1GHz-7GHz@Pass



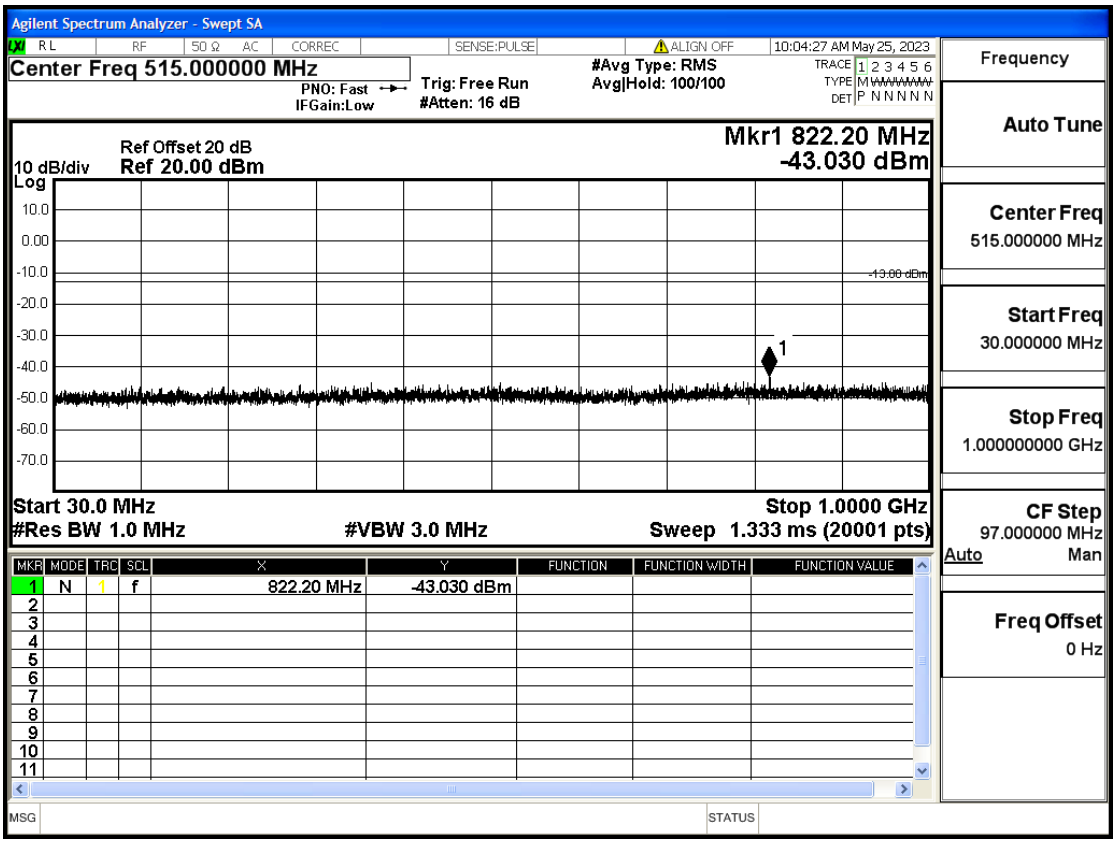
OB4-15-1717.5-Q16-75#LOW@7GHz-13.6GHz@Pass



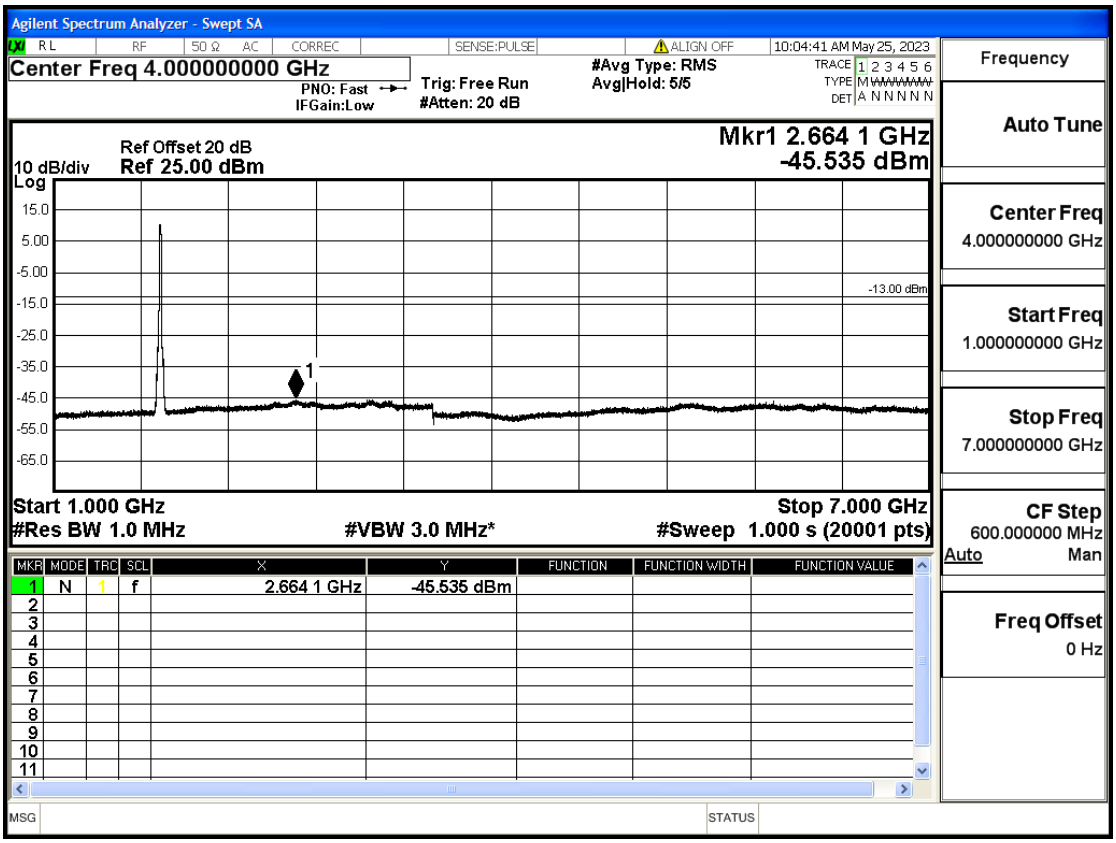
OB4-15-1717.5-Q16-75#LOW@13.6GHz-20GHz@Pass



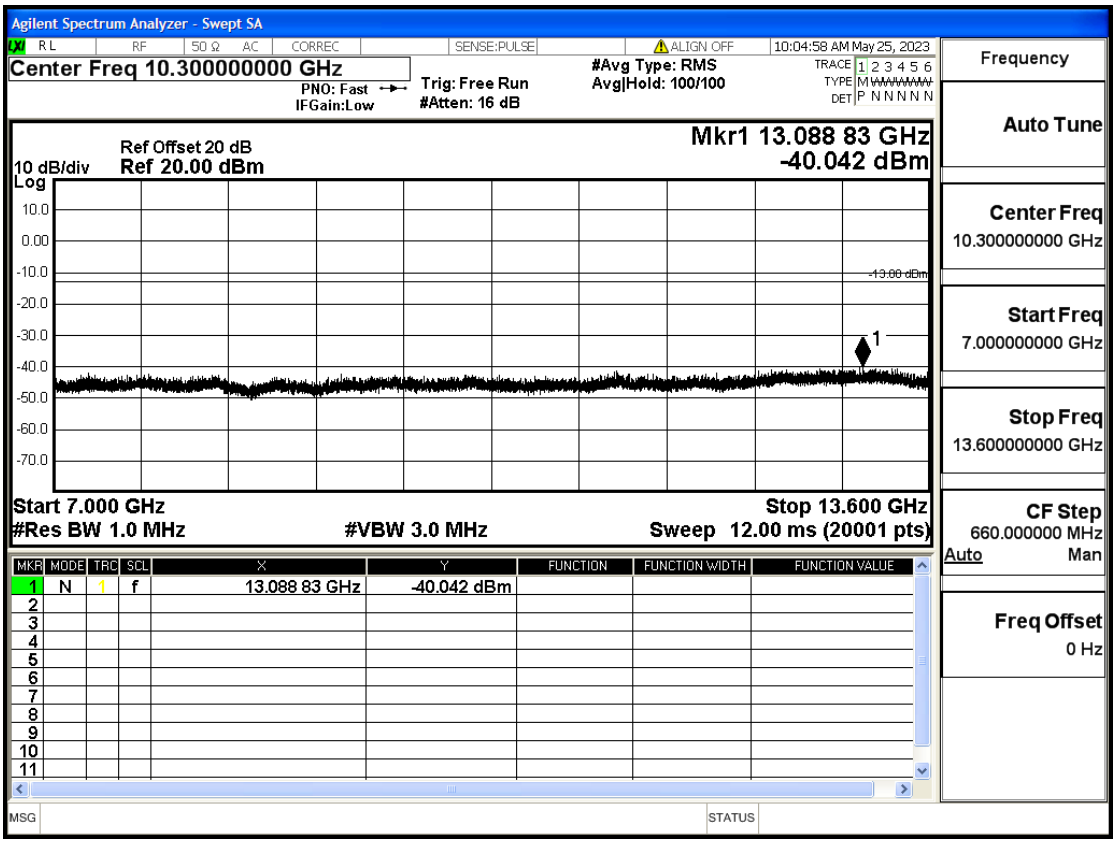
OB4-15-1732.5-Q16-75#LOW@30mHz-1GHz@Pass



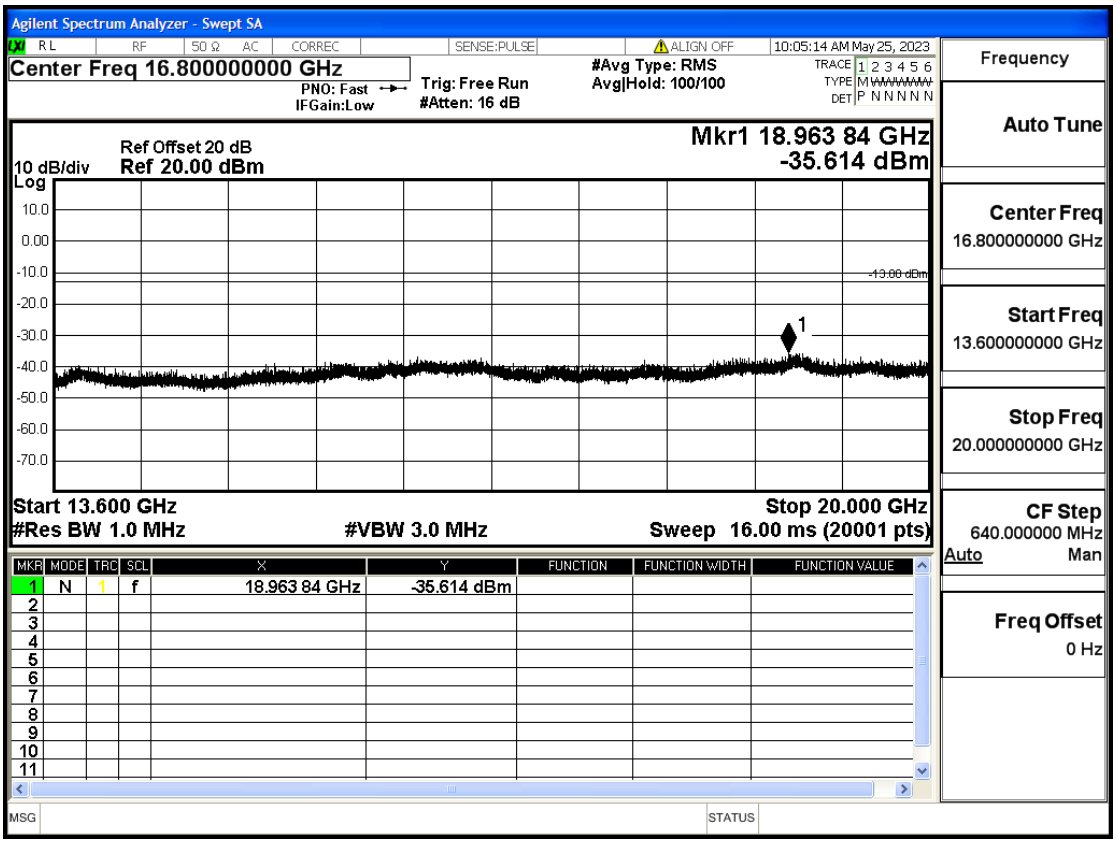
OB4-15-1732.5-Q16-75#LOW@1GHz-7GHz@Pass



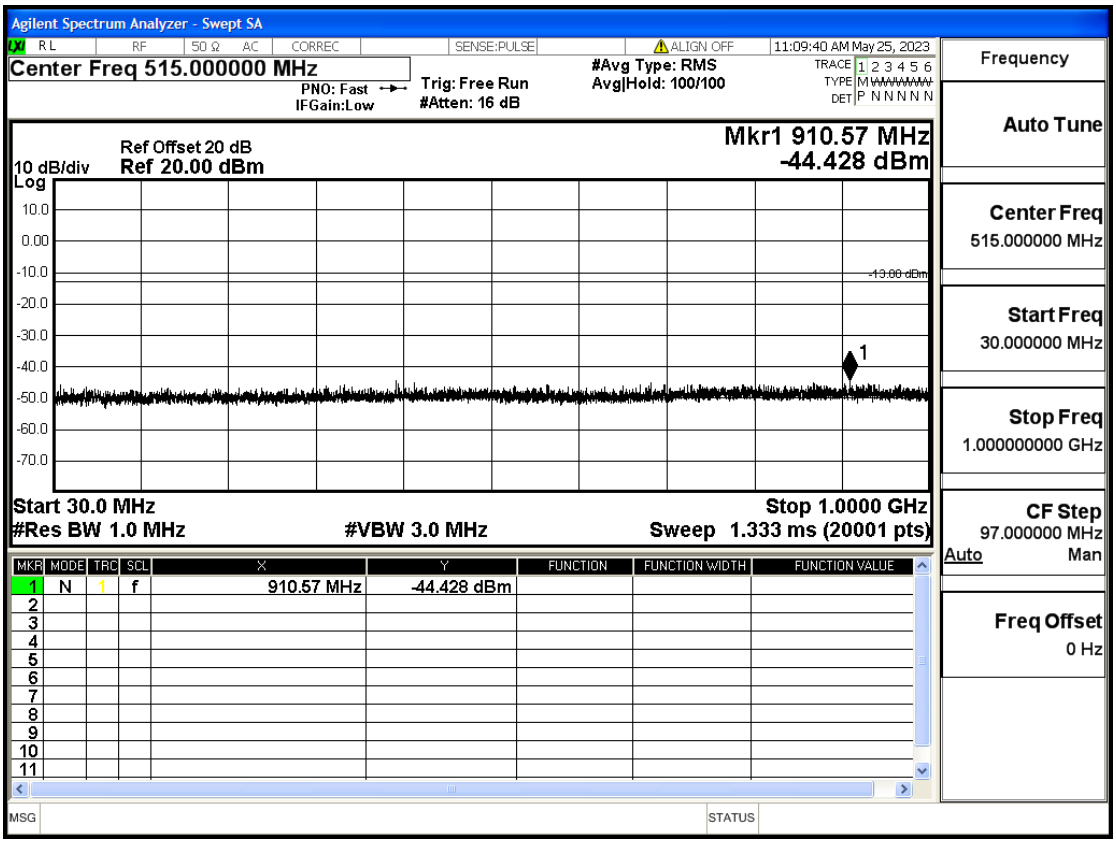
OB4-15-1732.5-Q16-75#LOW@7GHz-13.6GHz@Pass



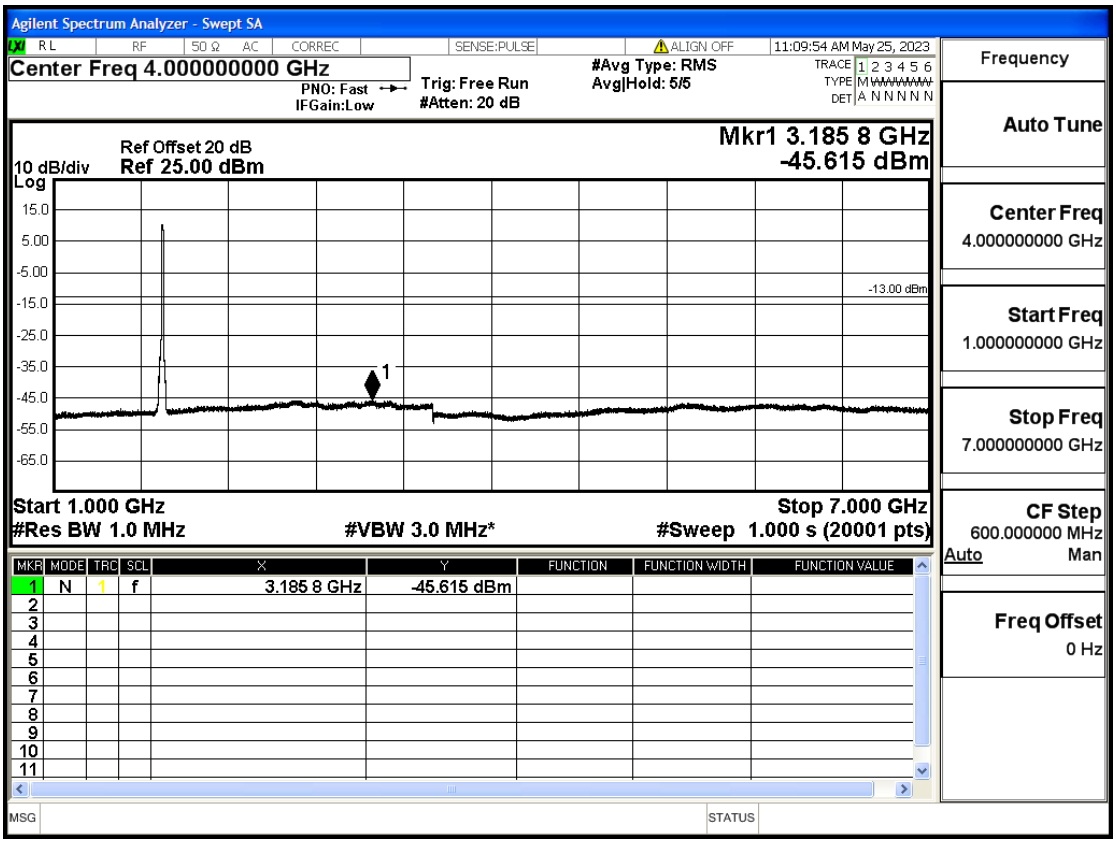
OB4-15-1732.5-Q16-75#LOW@13.6GHz-20GHz@Pass



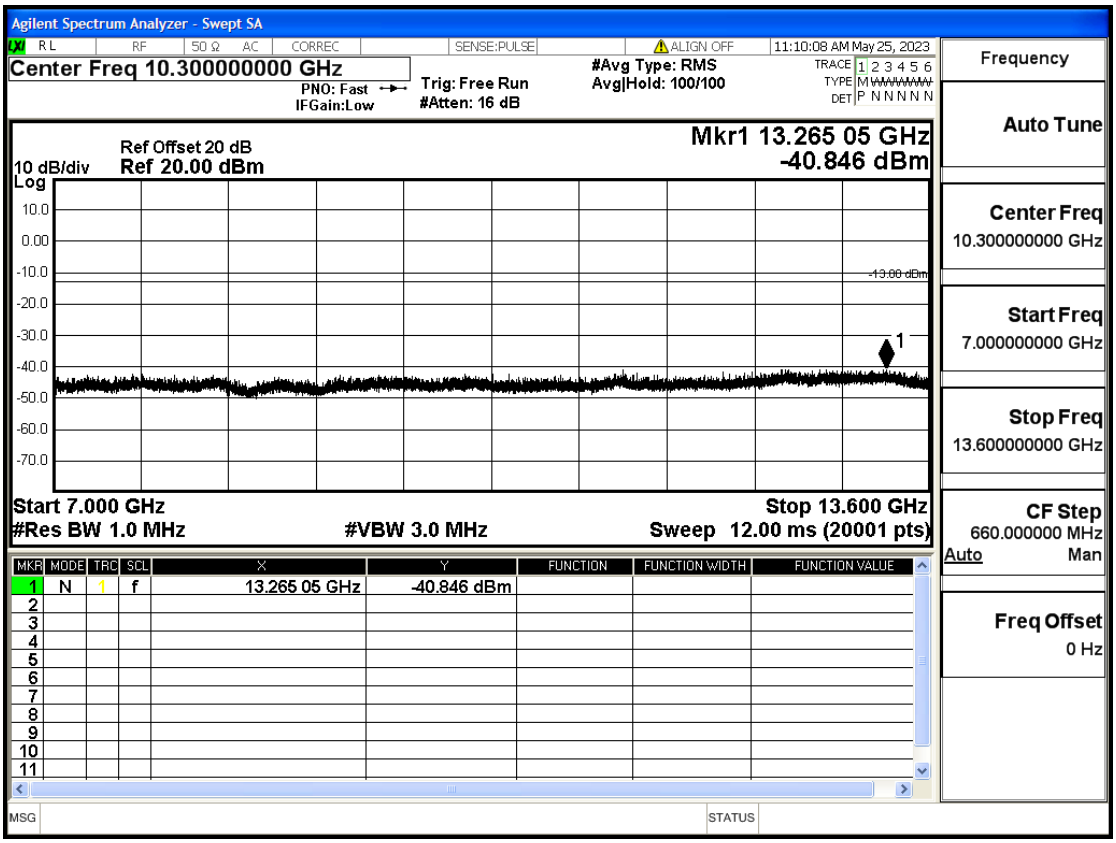
OB4-15-1747.5-Q16-75#LOW@30mHz-1GHz@Pass



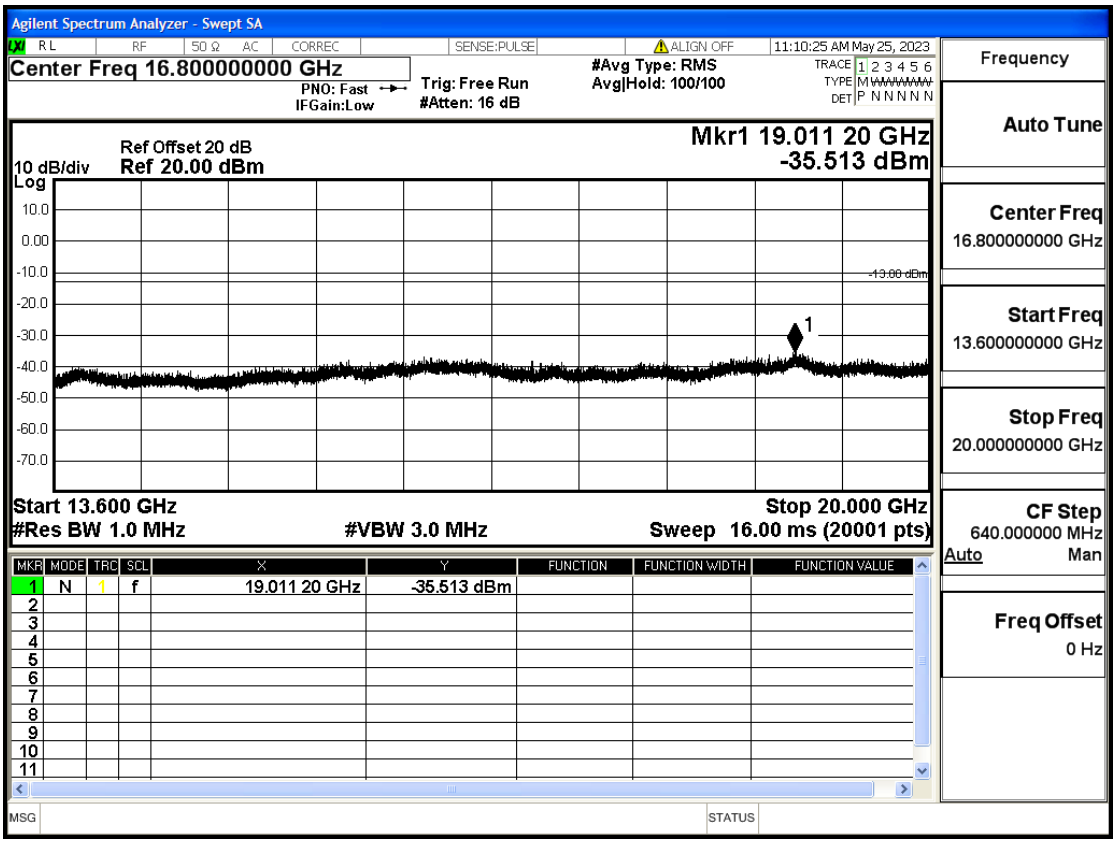
OB4-15-1747.5-Q16-75#LOW@1GHz-7GHz@Pass



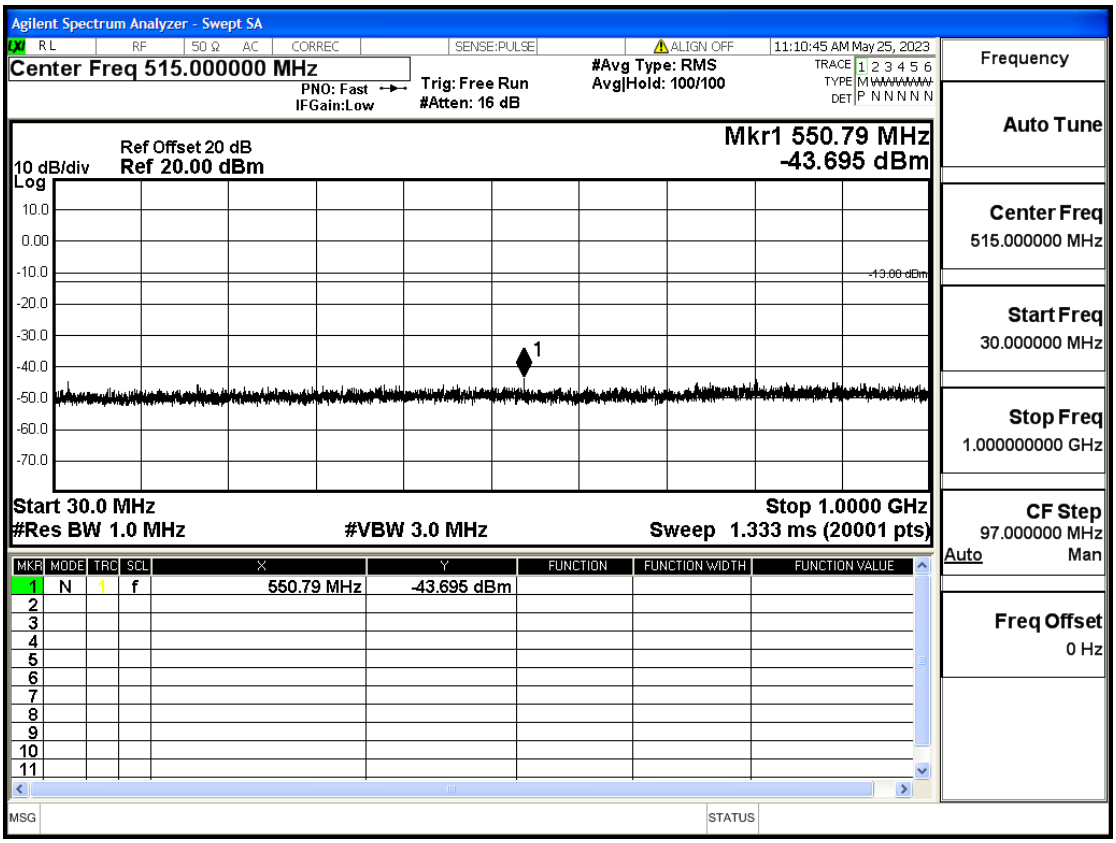
OB4-15-1747.5-Q16-75#LOW@7GHz-13.6GHz@Pass



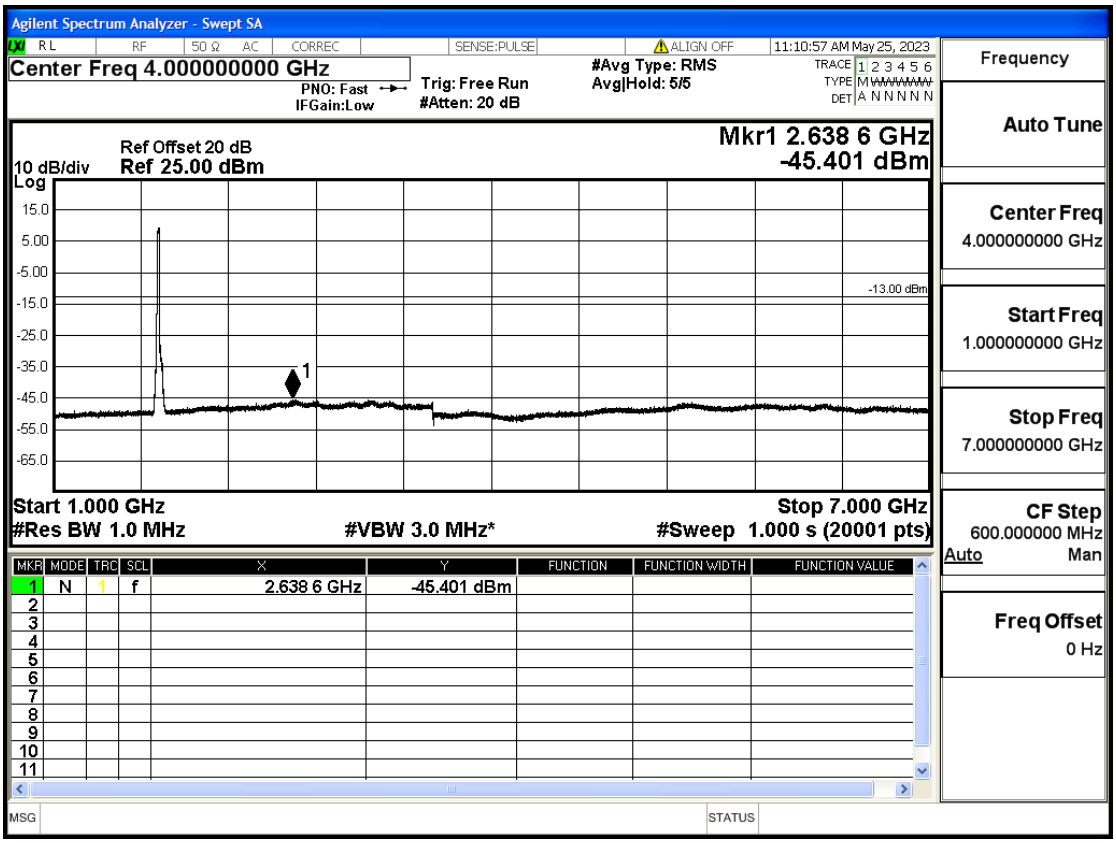
OB4-15-1747.5-Q16-75#LOW@13.6GHz-20GHz@Pass



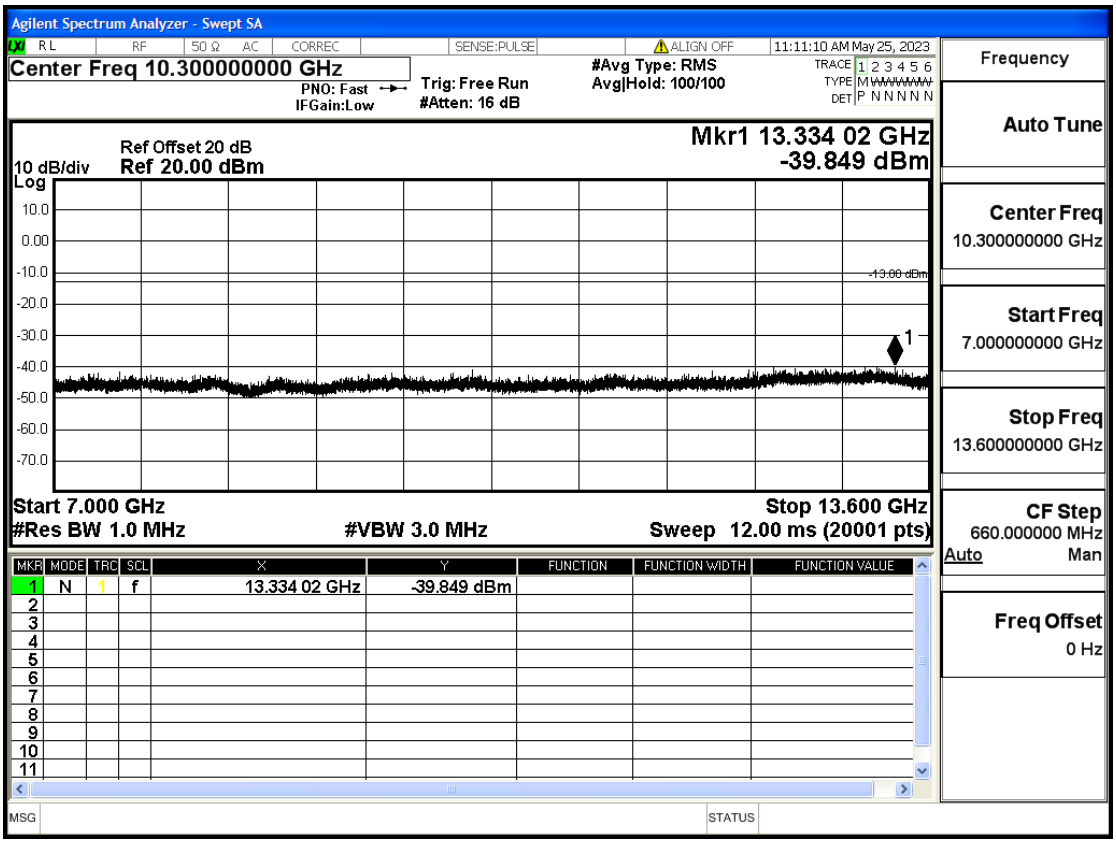
OB4-20-1720-Q16-100#LOW@30mHz-1GHz@Pass



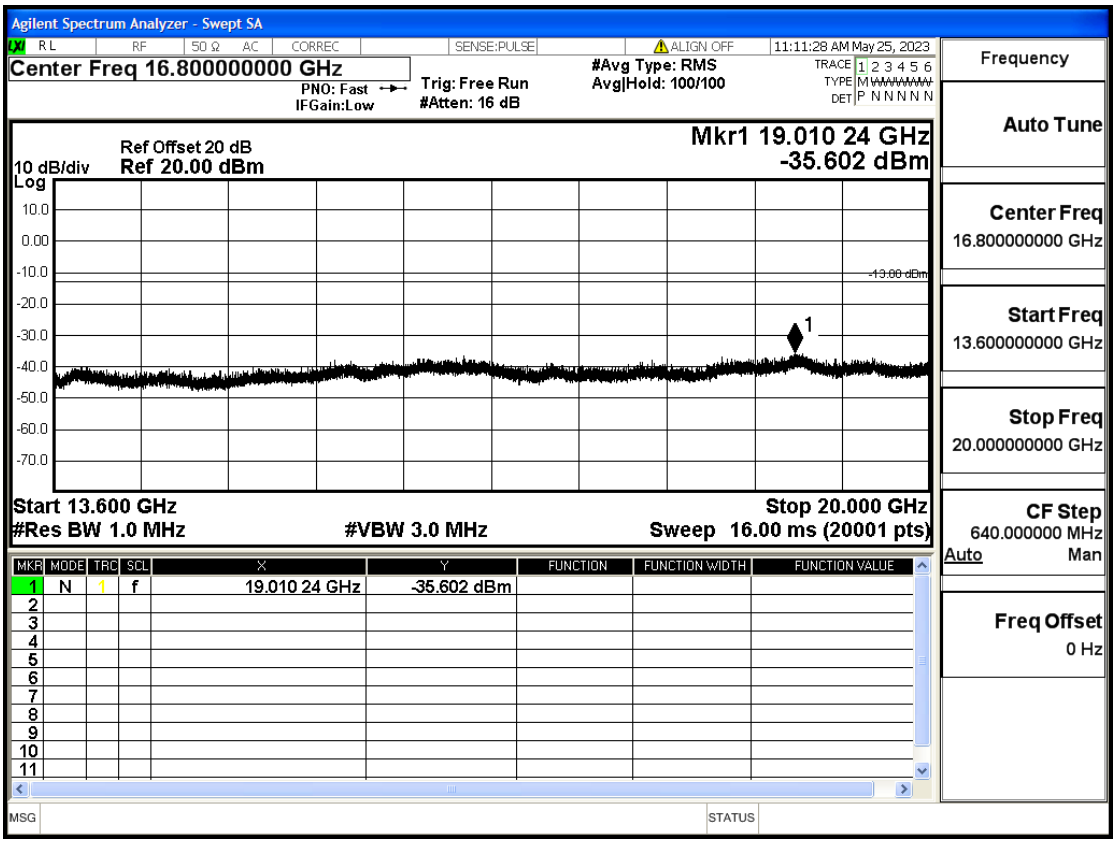
OB4-20-1720-Q16-100#LOW@1GHz-7GHz@Pass



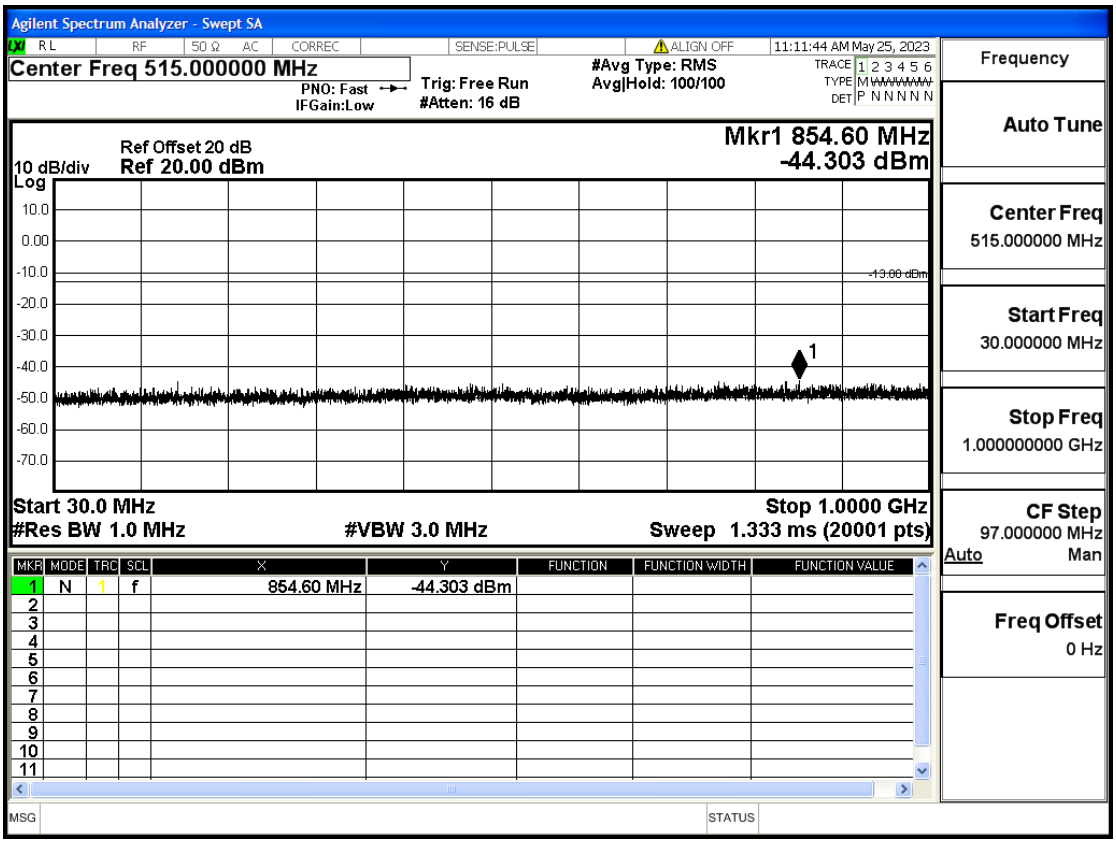
OB4-20-1720-Q16-100#LOW@7GHz-13.6GHz@Pass



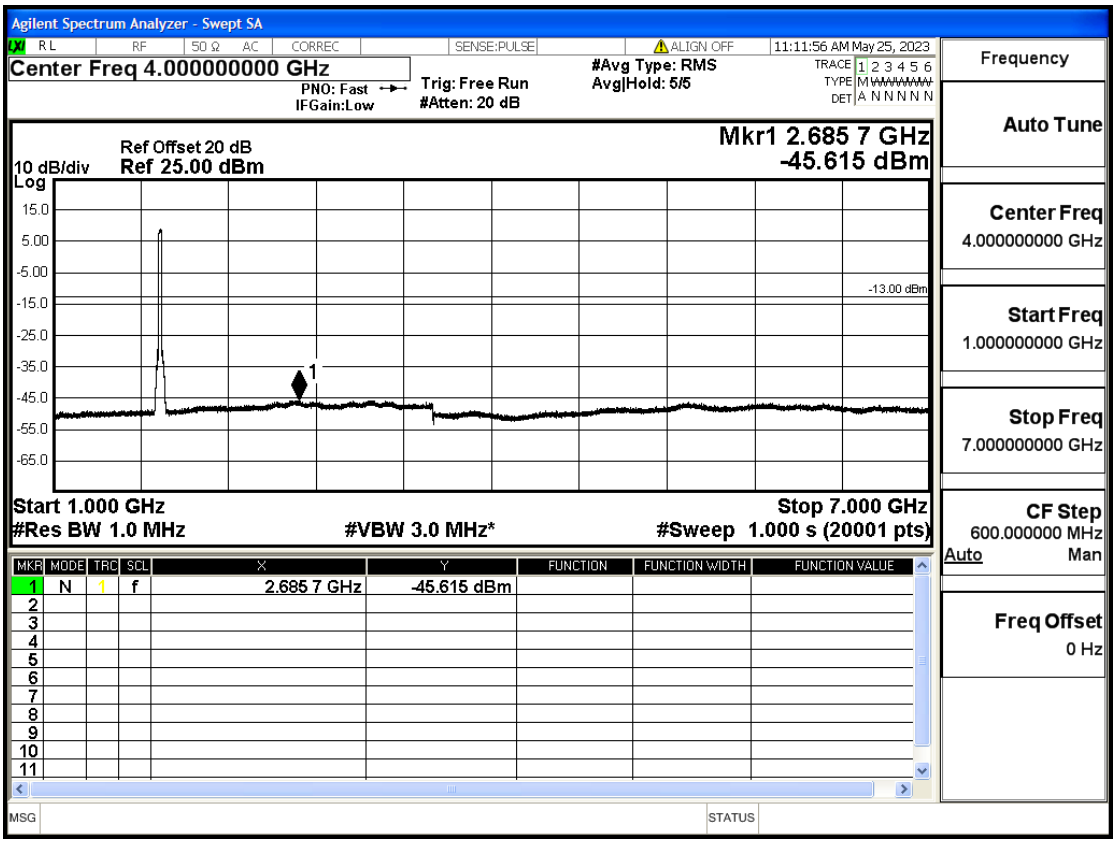
OB4-20-1720-Q16-100#LOW@13.6GHz-20GHz@Pass



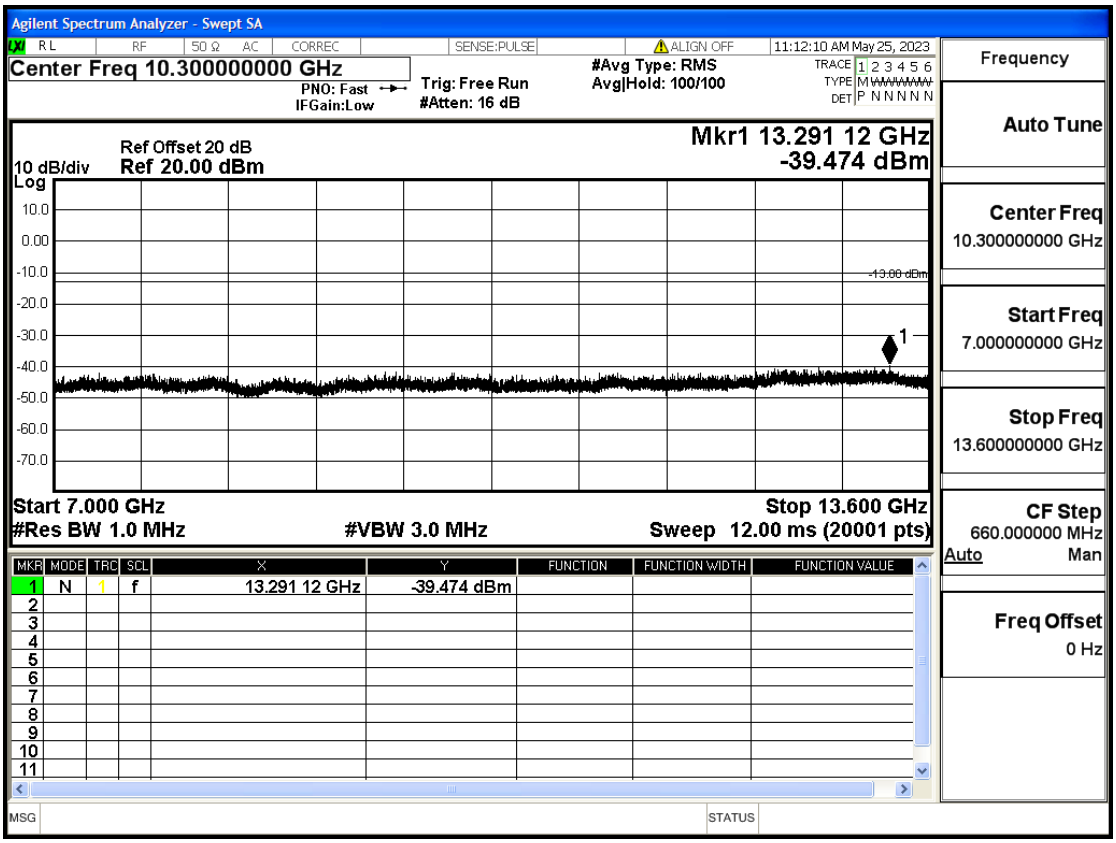
OB4-20-1732.5-Q16-100#LOW@30mHz-1GHz@Pass



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



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



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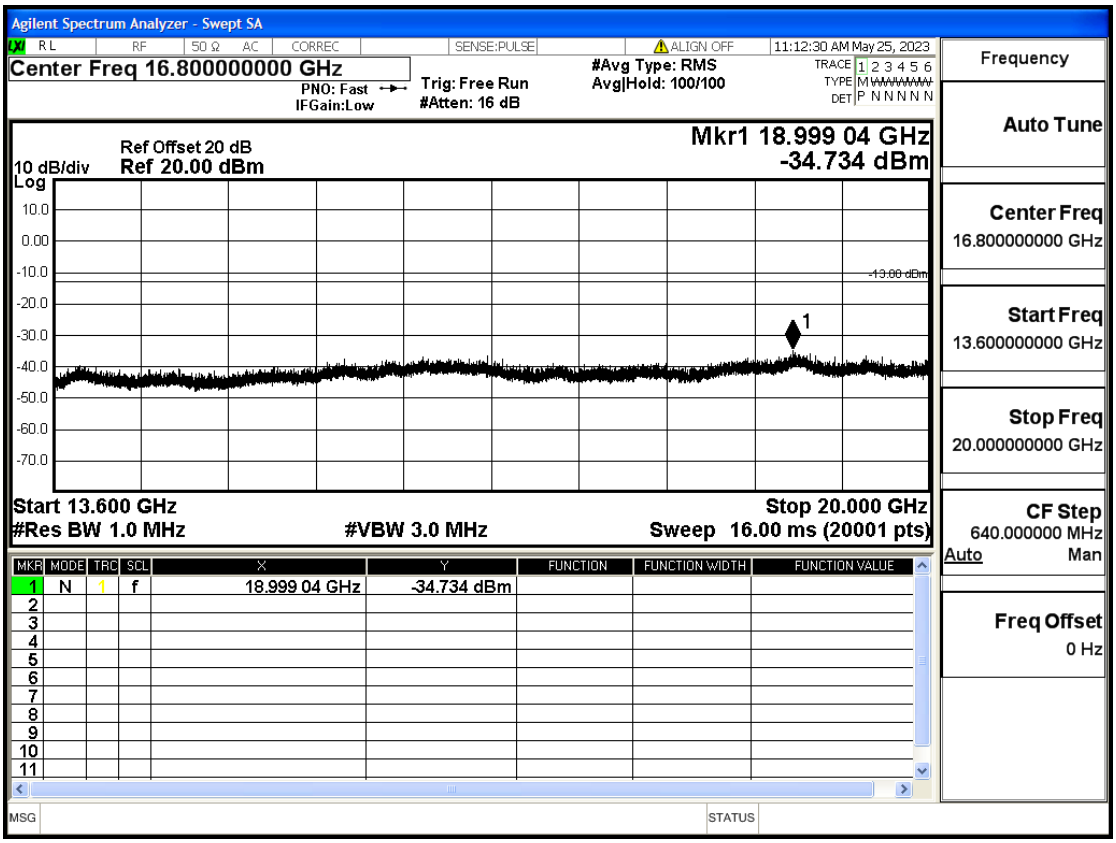
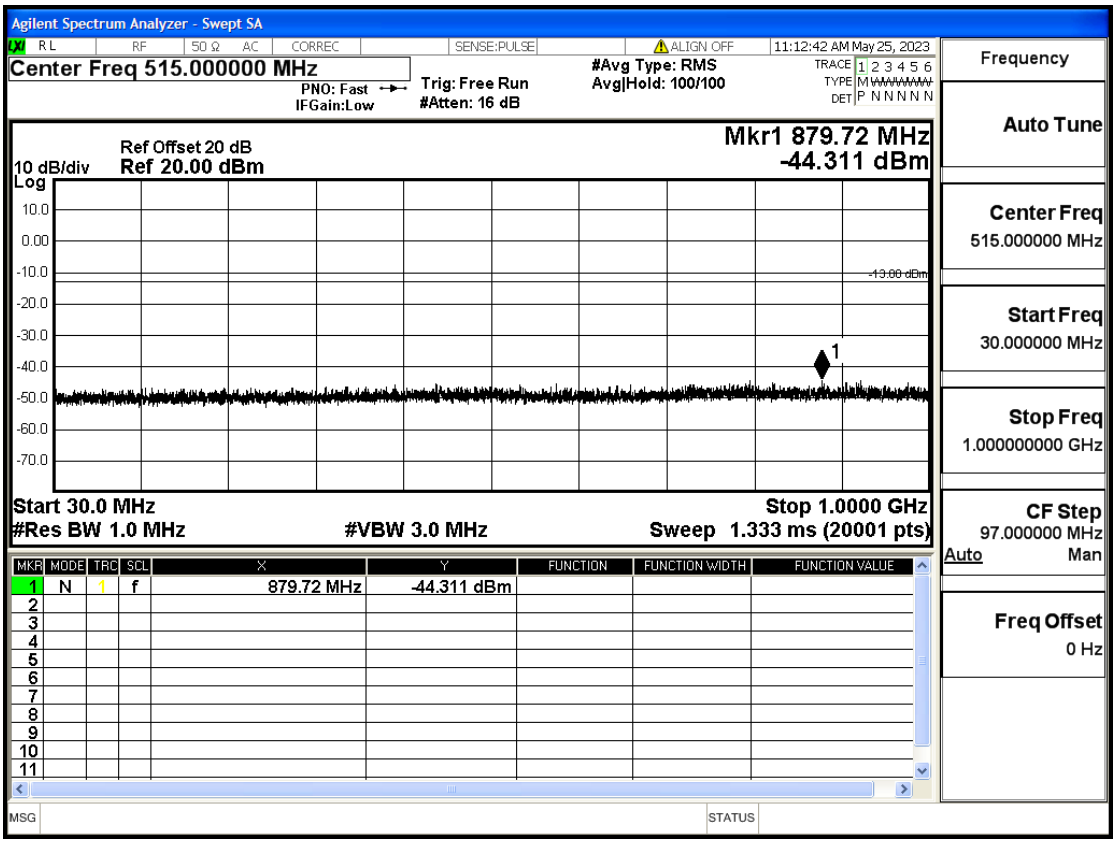
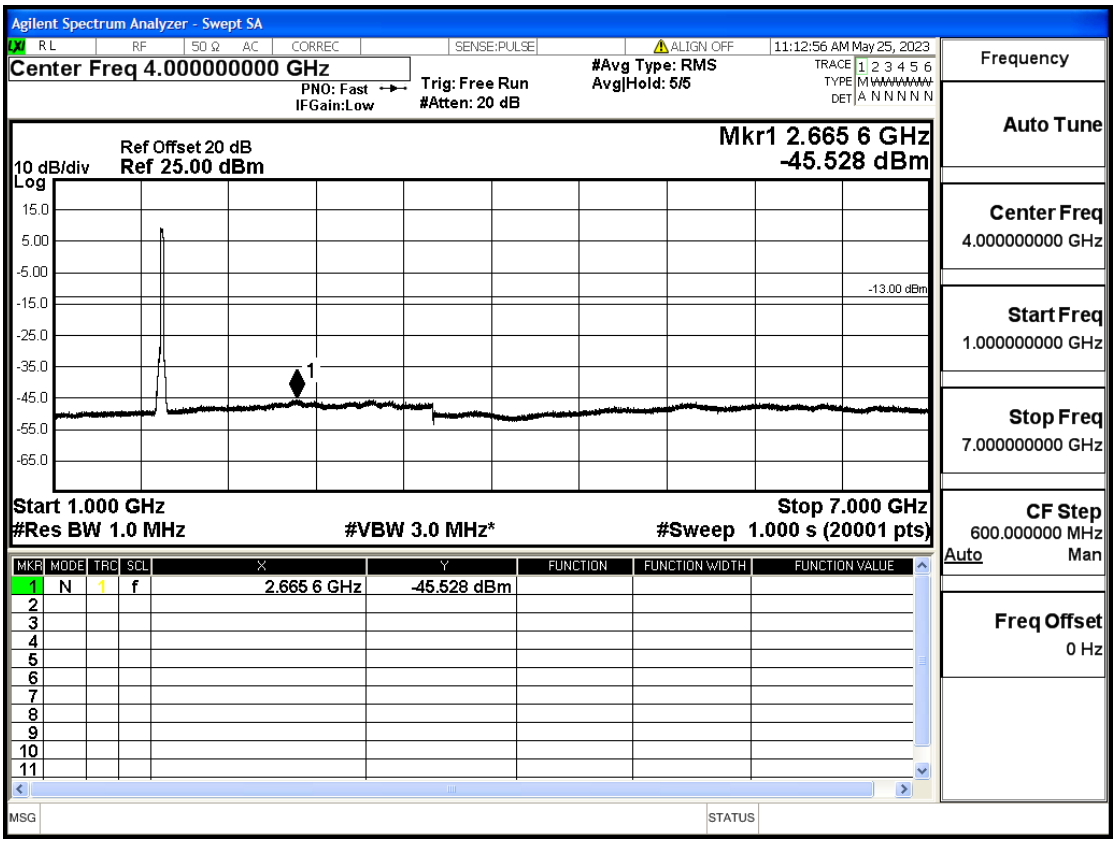


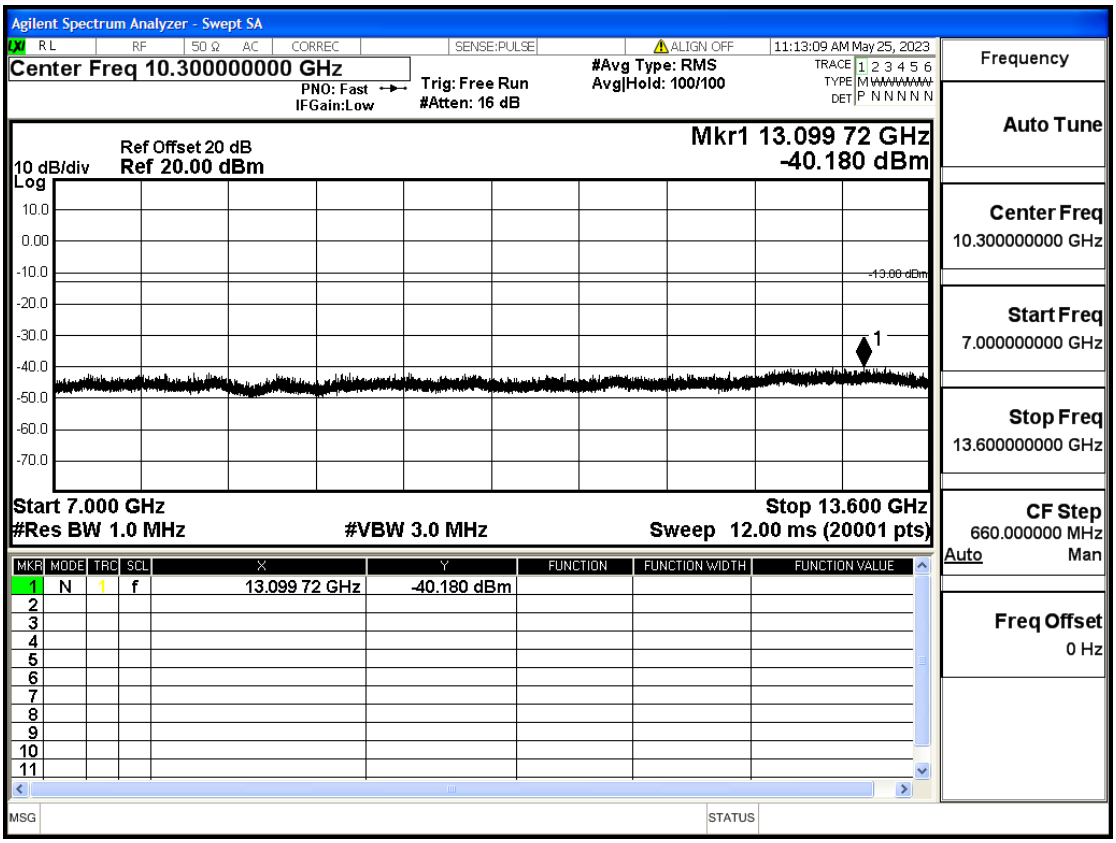
OB4-20-1745-Q16-100#LOW@30mHz-1GHz@Pass



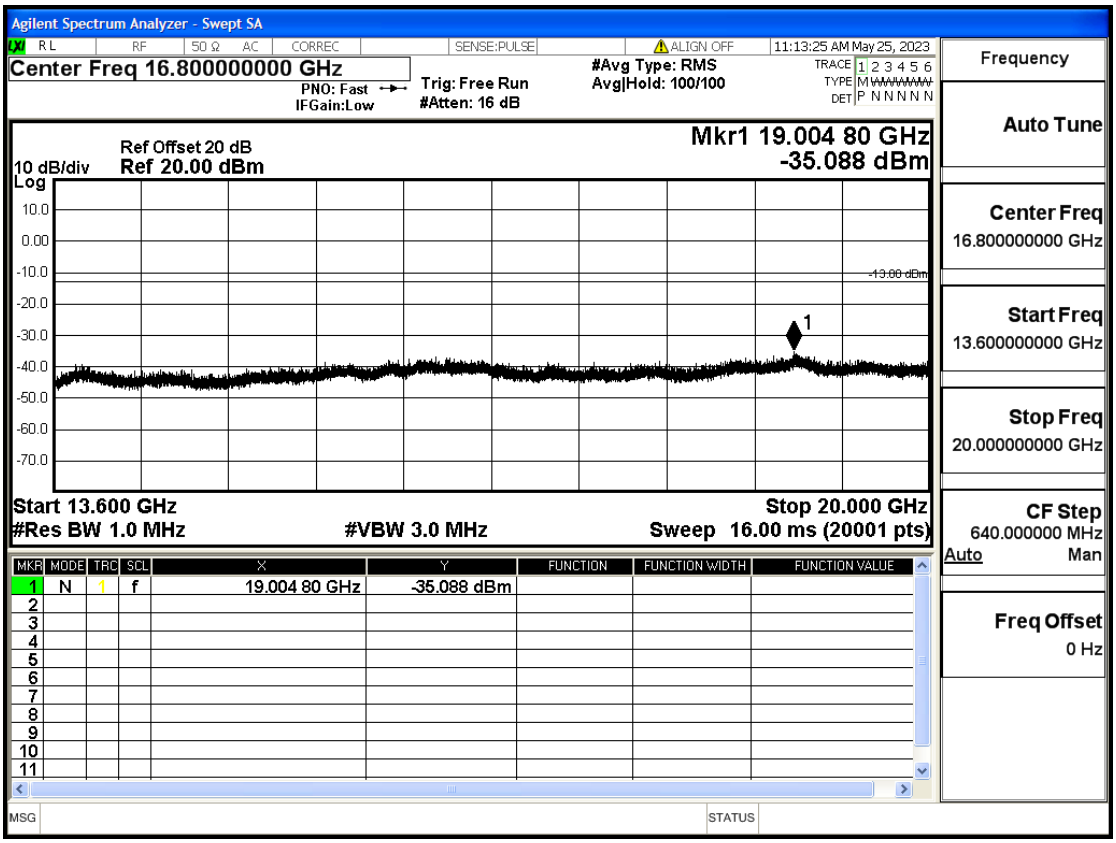
OB4-20-1745-Q16-100#LOW@1GHz-7GHz@Pass



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



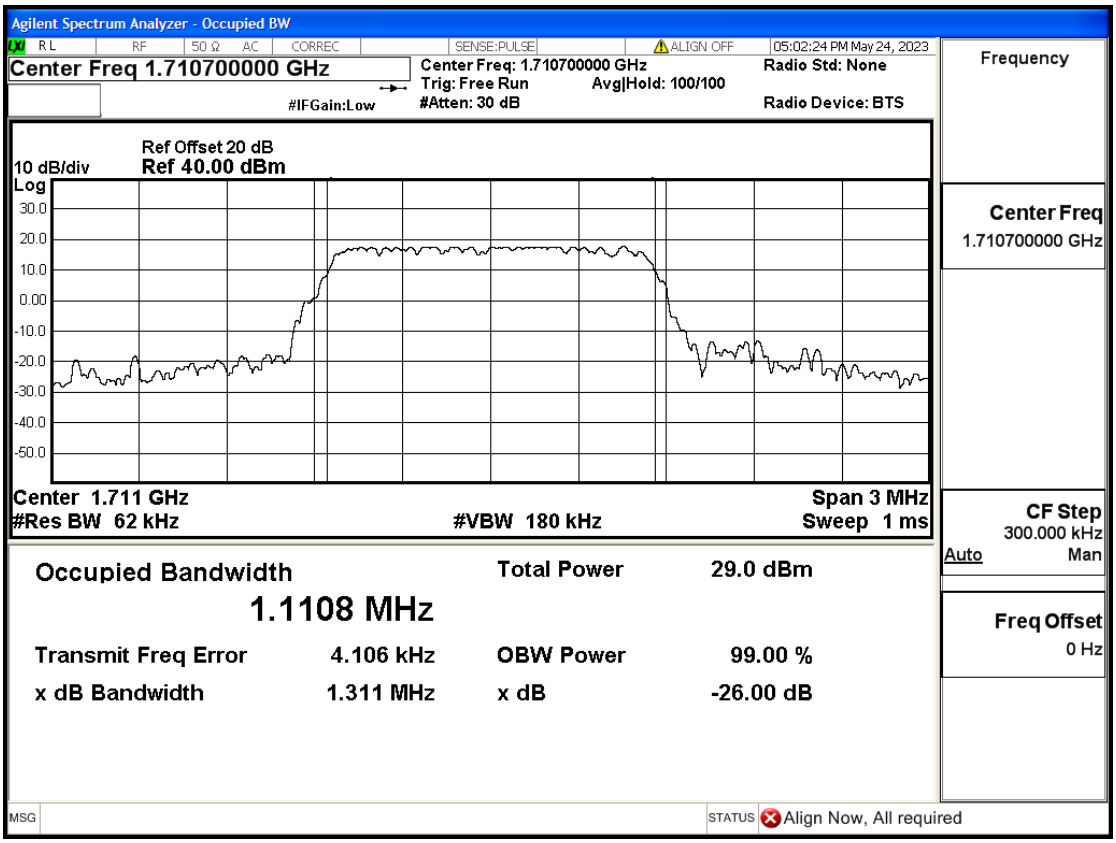
OB4-20-1745-Q16-100#LOW@13.6GHz-20GHz@Pass



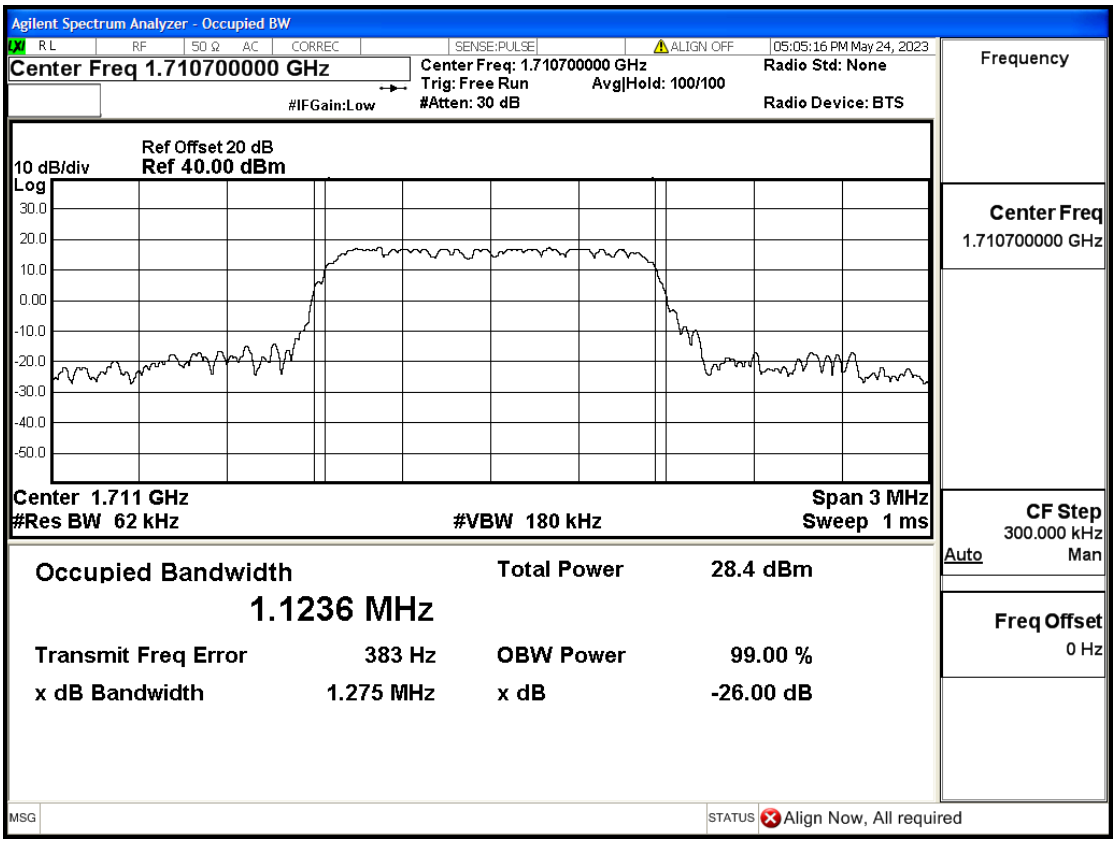
Emission bandwidth and OBW

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	1110.8	1311	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1123.6	1275	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1121.5	1389	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1116.3	1346	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1124.1	1302	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1113.8	1317	No limit
Band4	3	1711.5	QPSK	15	LOW	2784.2	3288	No limit
Band4	3	1711.5	16QAM	15	LOW	2742	3130	No limit
Band4	3	1732.5	QPSK	15	LOW	2768.2	3131	No limit
Band4	3	1732.5	16QAM	15	LOW	2766.1	3257	No limit
Band4	3	1753.5	QPSK	15	LOW	2770	3132	No limit
Band4	3	1753.5	16QAM	15	LOW	2779.3	3314	No limit
Band4	5	1712.5	QPSK	25	LOW	4582	5599	No limit
Band4	5	1712.5	16QAM	25	LOW	4602.3	5291	No limit
Band4	5	1732.5	QPSK	25	LOW	4601.3	5996	No limit
Band4	5	1732.5	16QAM	25	LOW	4577.9	5051	No limit
Band4	5	1752.5	QPSK	25	LOW	4581.4	5177	No limit
Band4	5	1752.5	16QAM	25	LOW	4571.4	5554	No limit
Band4	10	1715	QPSK	50	LOW	9100.9	10920	No limit
Band4	10	1715	16QAM	50	LOW	9094	10170	No limit
Band4	10	1732.5	QPSK	50	LOW	9101.4	10220	No limit
Band4	10	1732.5	16QAM	50	LOW	9105.3	10400	No limit
Band4	10	1750	QPSK	50	LOW	9115.4	10360	No limit
Band4	10	1750	16QAM	50	LOW	9115	10290	No limit
Band4	15	1717.5	QPSK	75	LOW	13709	15940	No limit
Band4	15	1717.5	16QAM	75	LOW	13644	15340	No limit
Band4	15	1732.5	QPSK	75	LOW	13646	15520	No limit
Band4	15	1732.5	16QAM	75	LOW	13639	15690	No limit
Band4	15	1747.5	QPSK	75	LOW	13658	15210	No limit
Band4	15	1747.5	16QAM	75	LOW	13730	14970	No limit
Band4	20	1720	QPSK	100	LOW	18258	20440	No limit
Band4	20	1720	16QAM	100	LOW	18280	20970	No limit
Band4	20	1732.5	QPSK	100	LOW	18237	20260	No limit
Band4	20	1732.5	16QAM	100	LOW	18175	20210	No limit
Band4	20	1745	QPSK	100	LOW	18267	20710	No limit
Band4	20	1745	16QAM	100	LOW	18260	20370	No limit

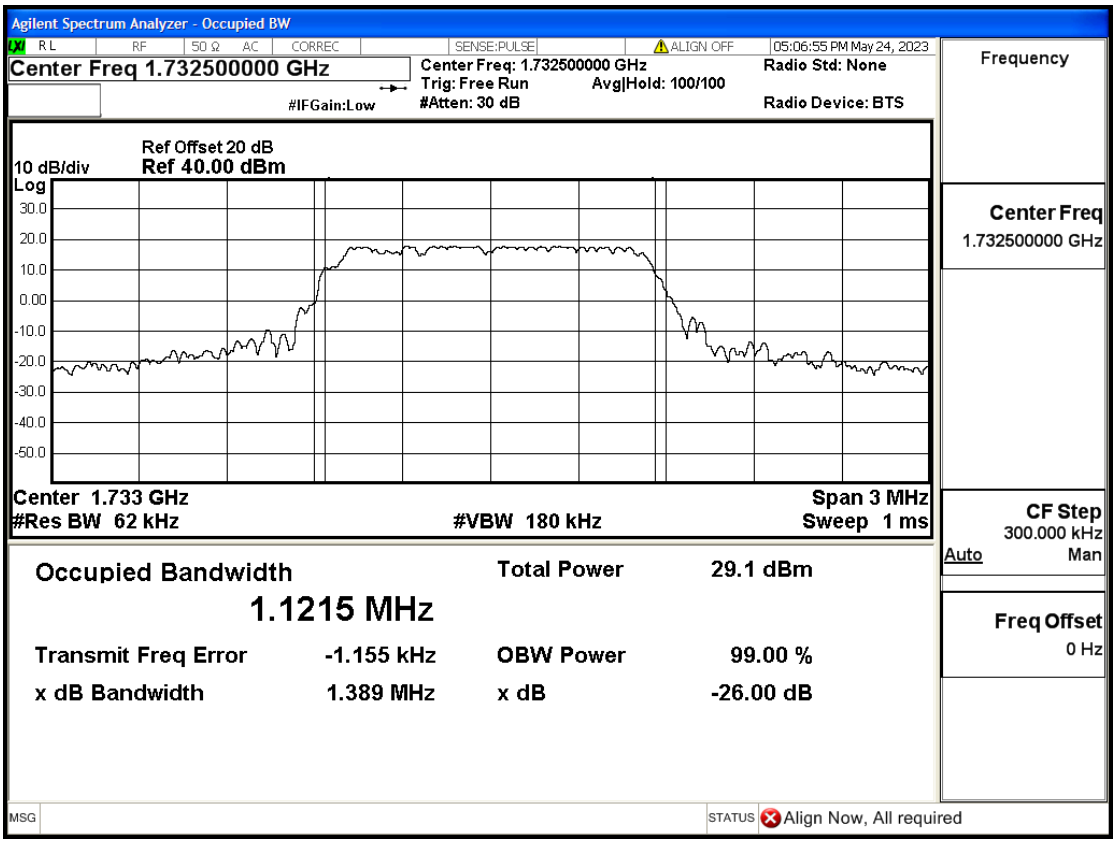
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



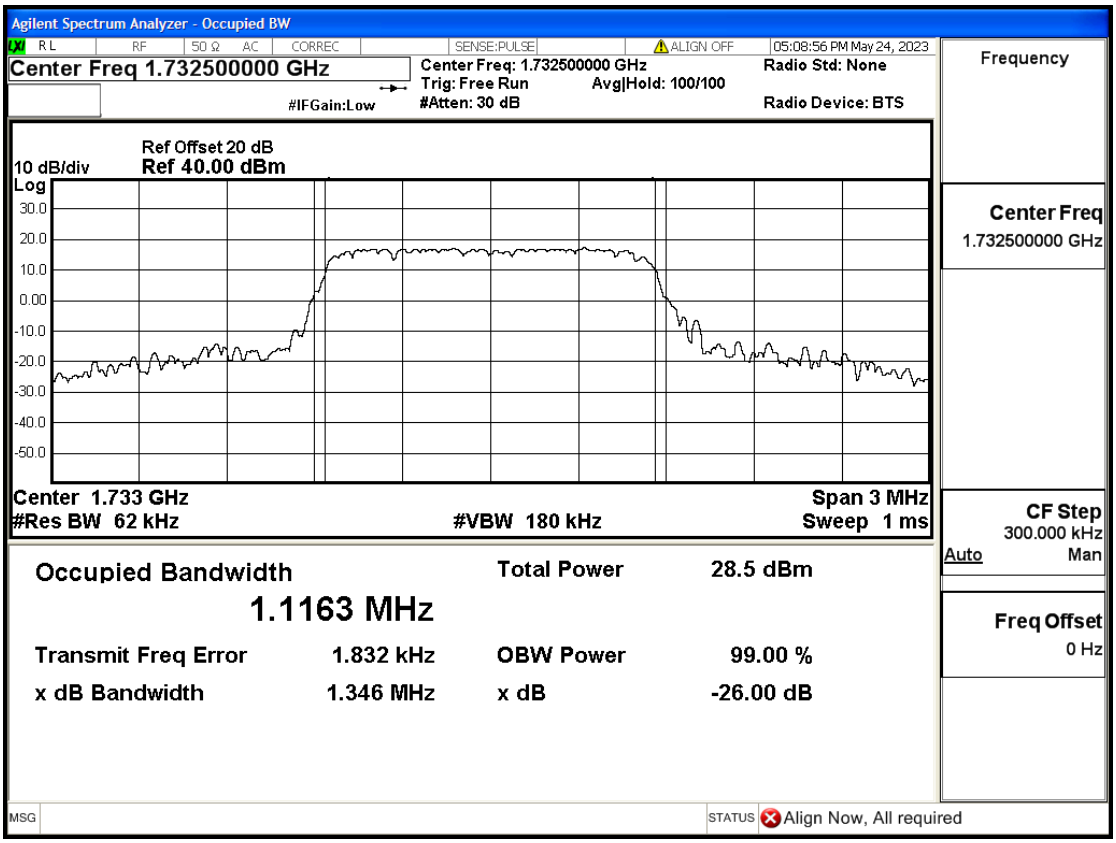
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



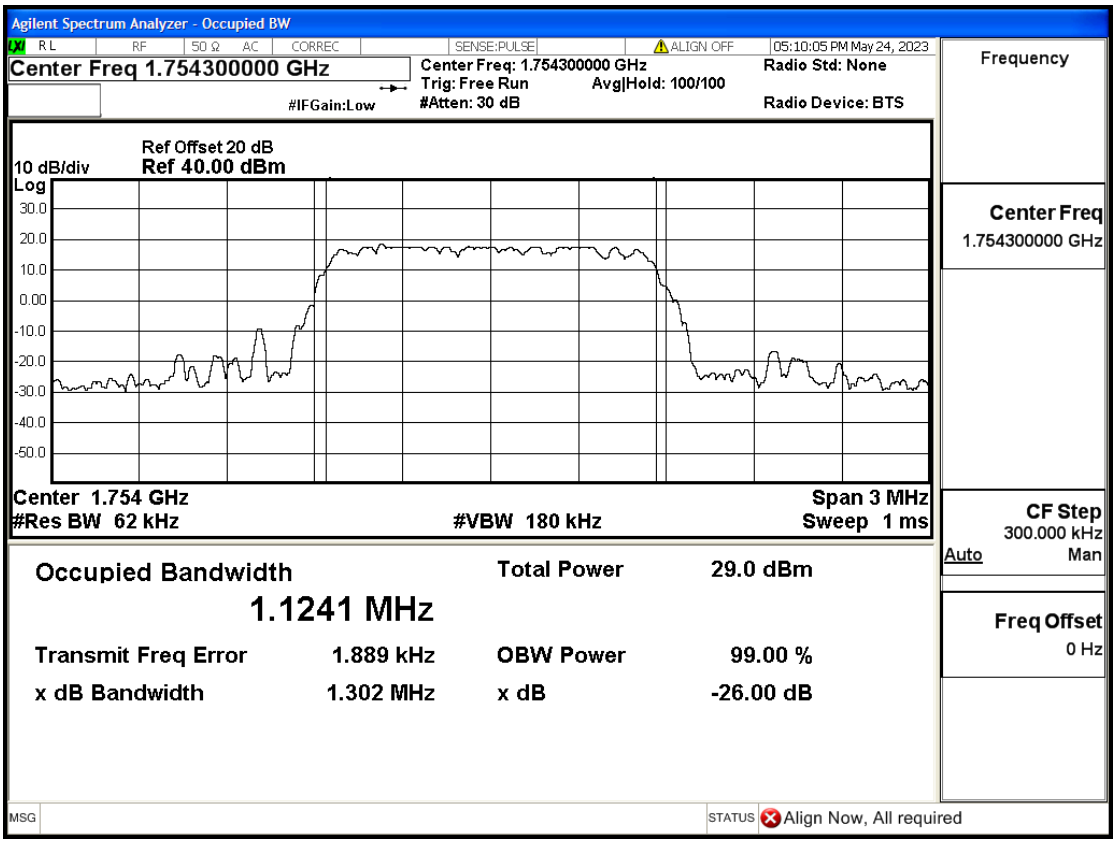
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



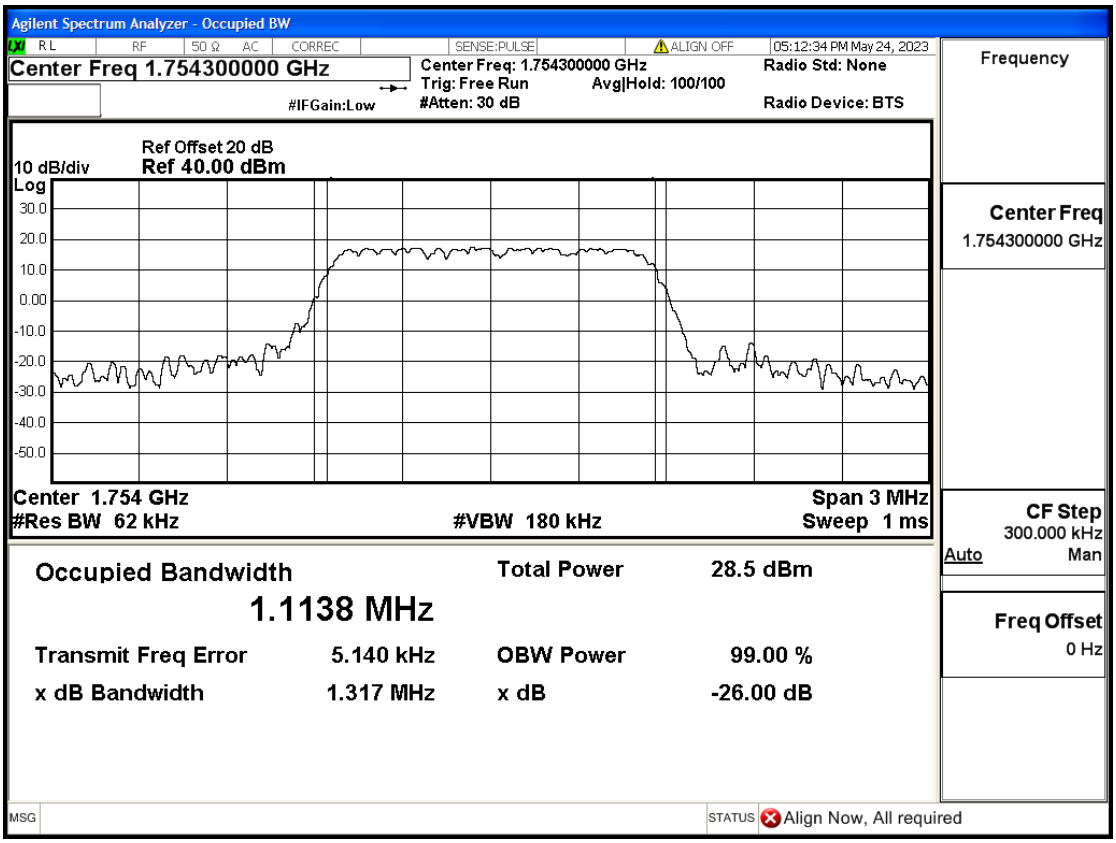
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



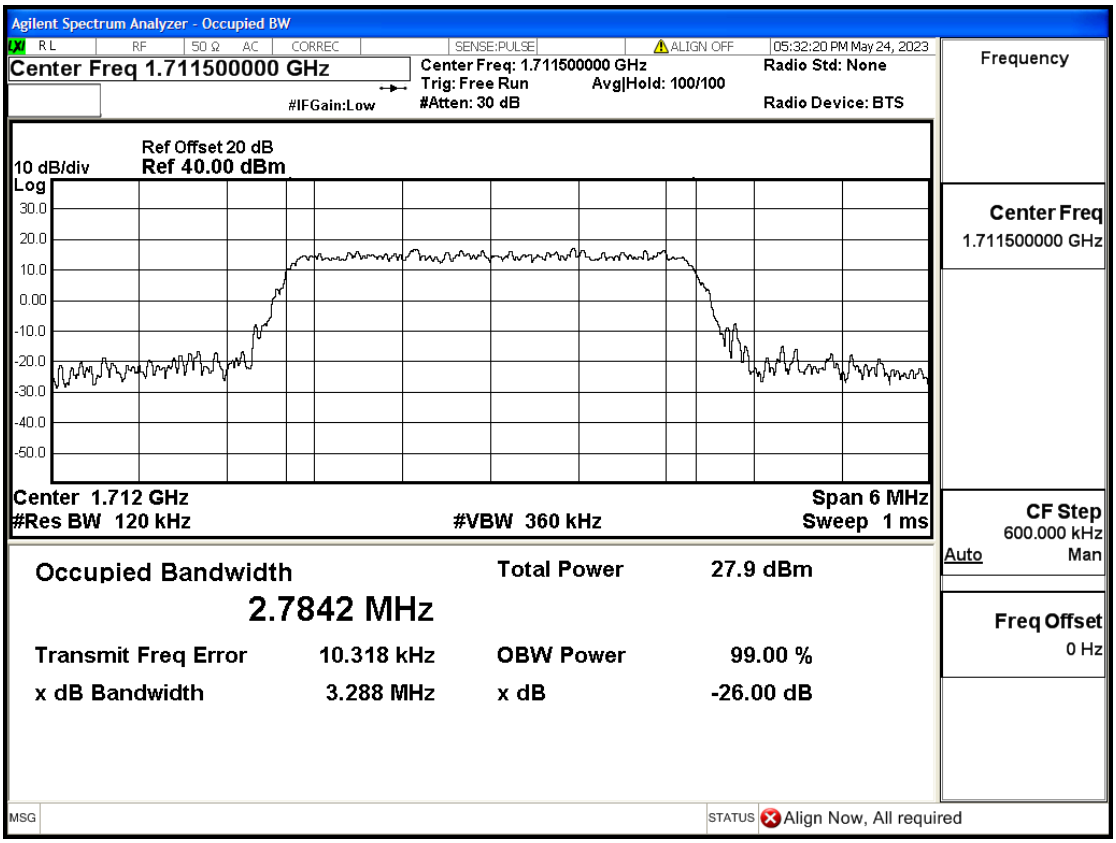
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



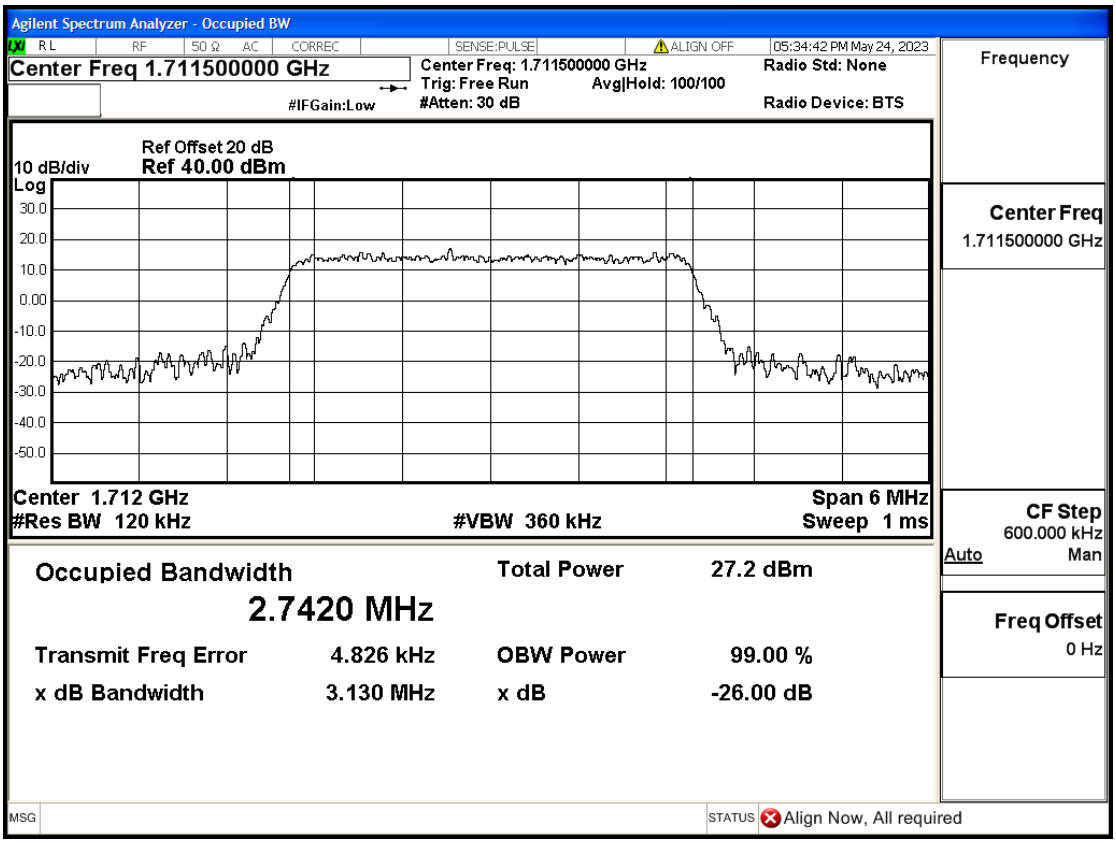
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



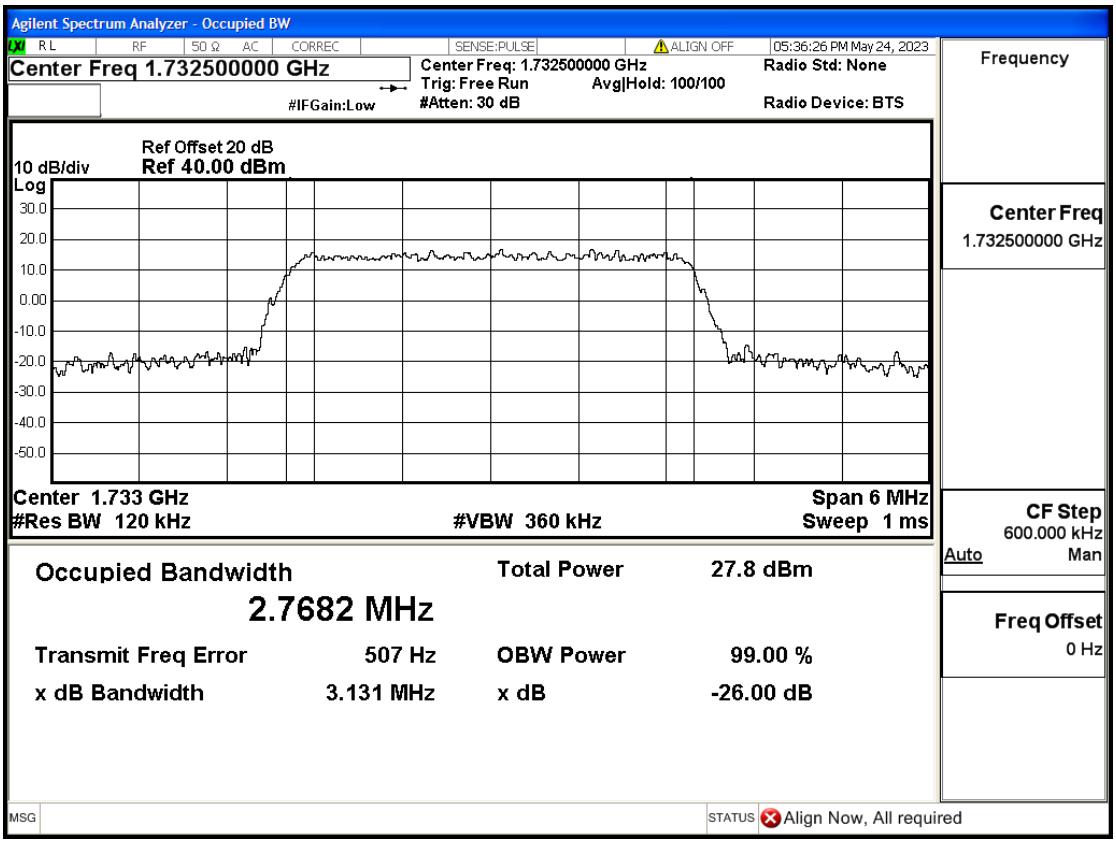
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



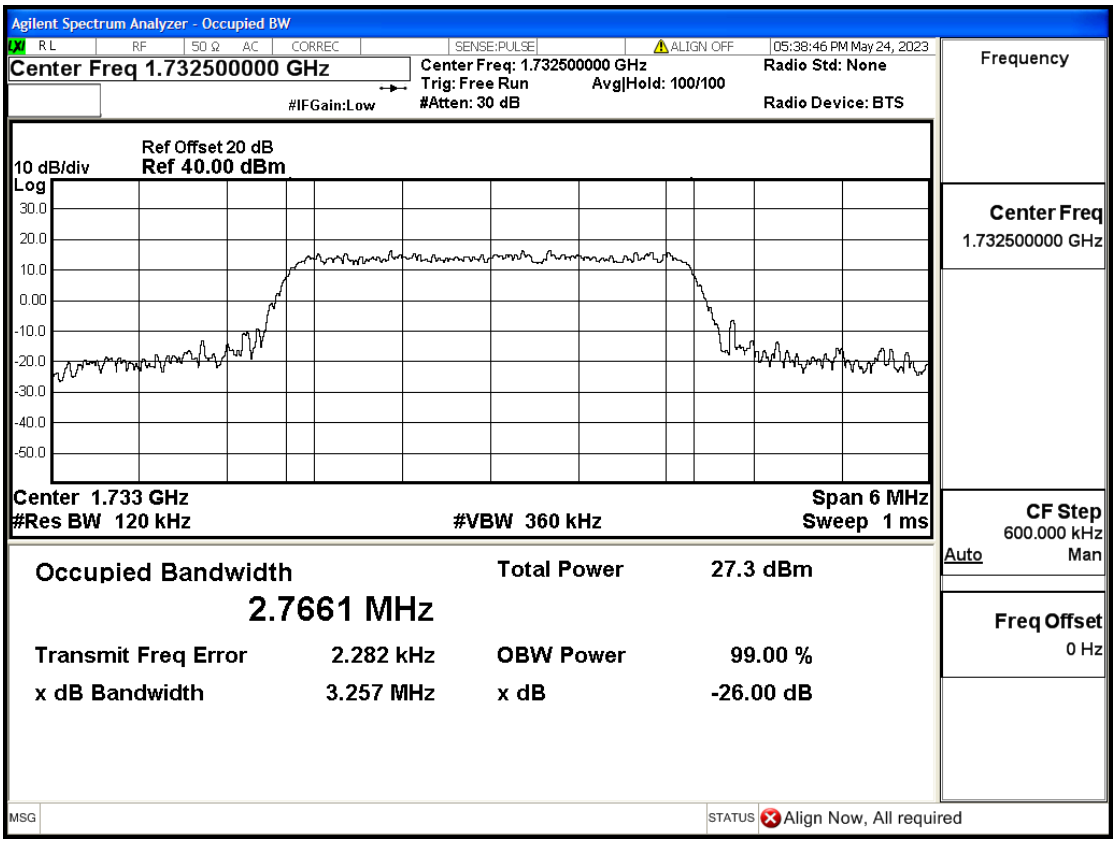
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



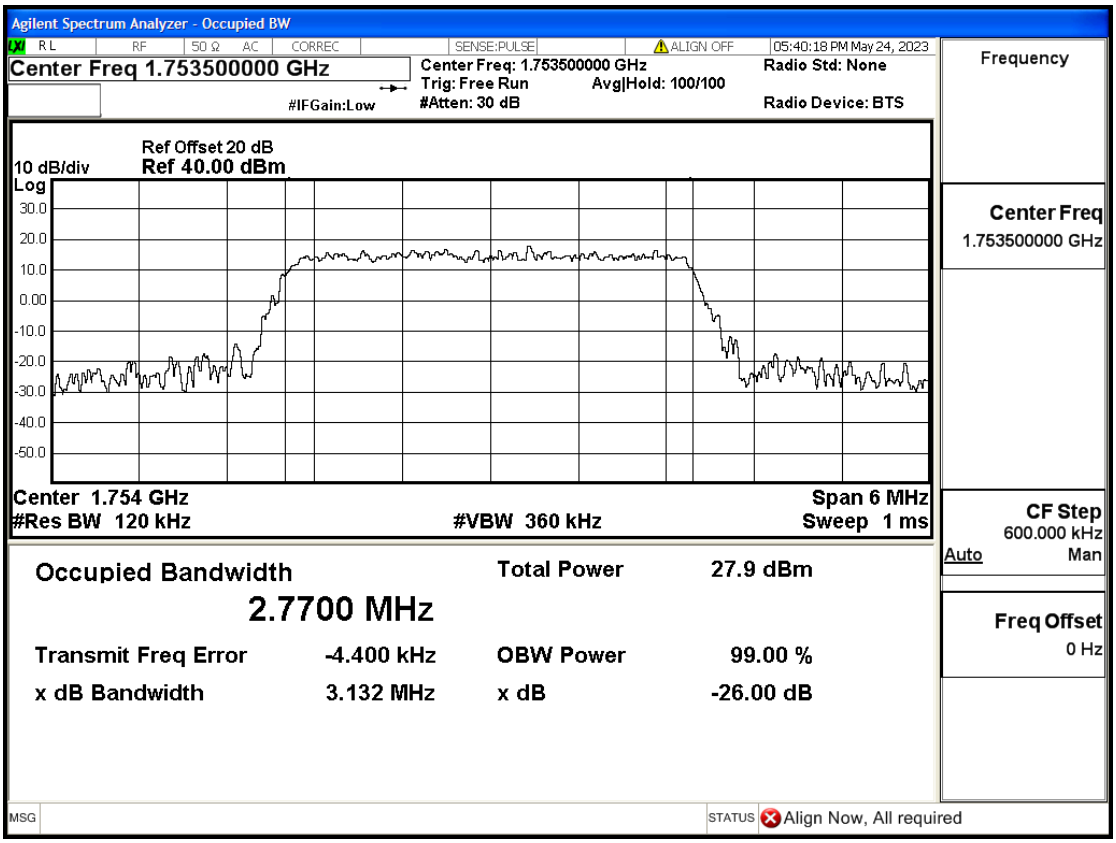
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



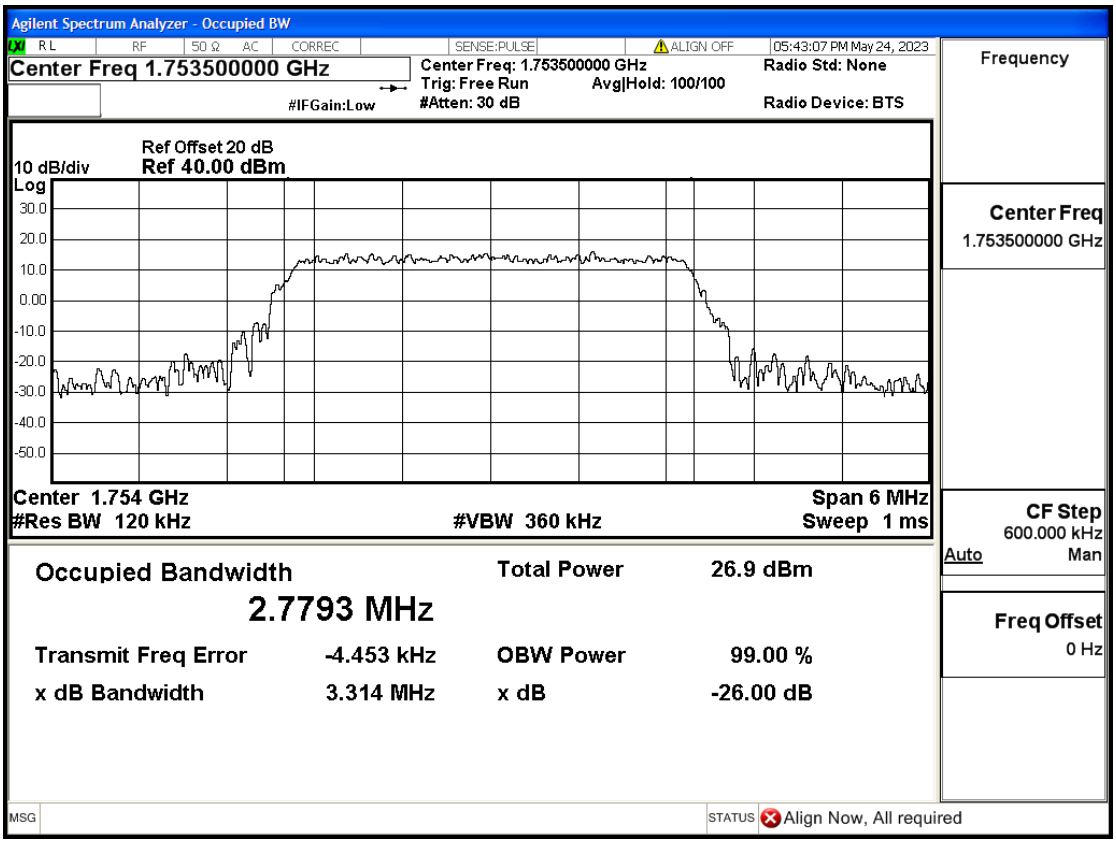
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



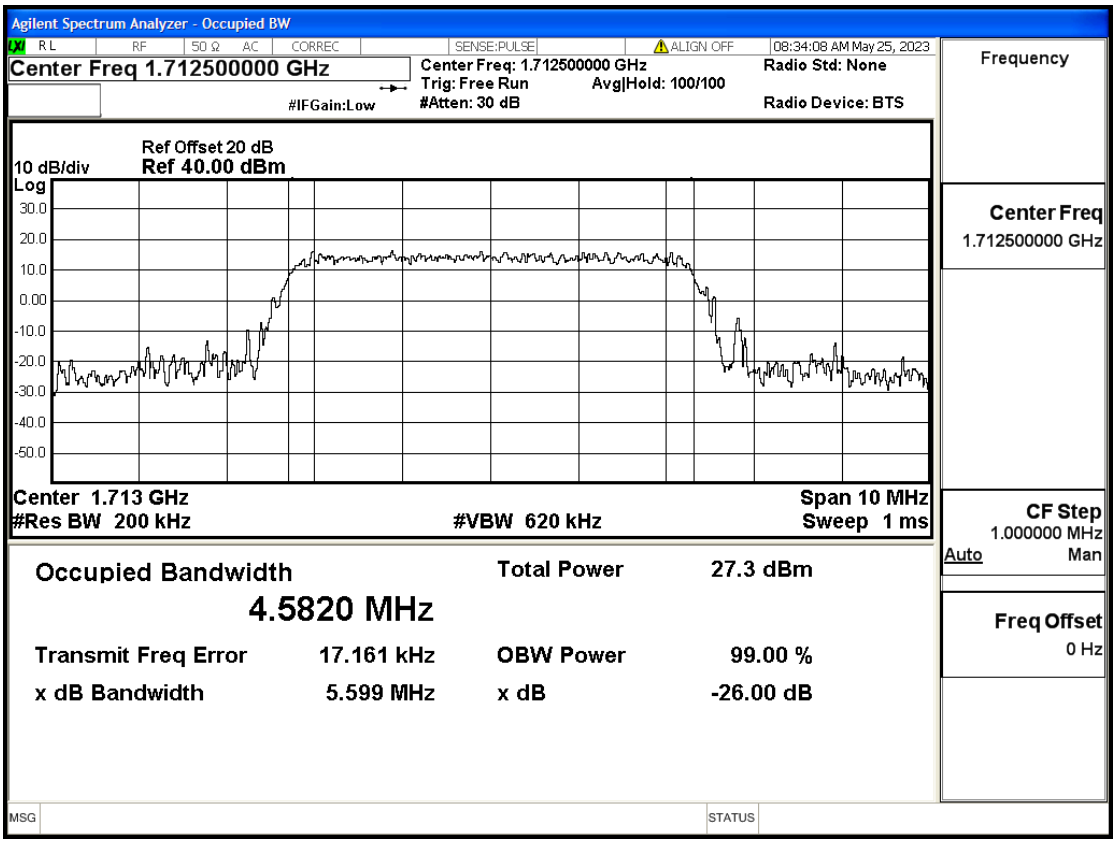
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



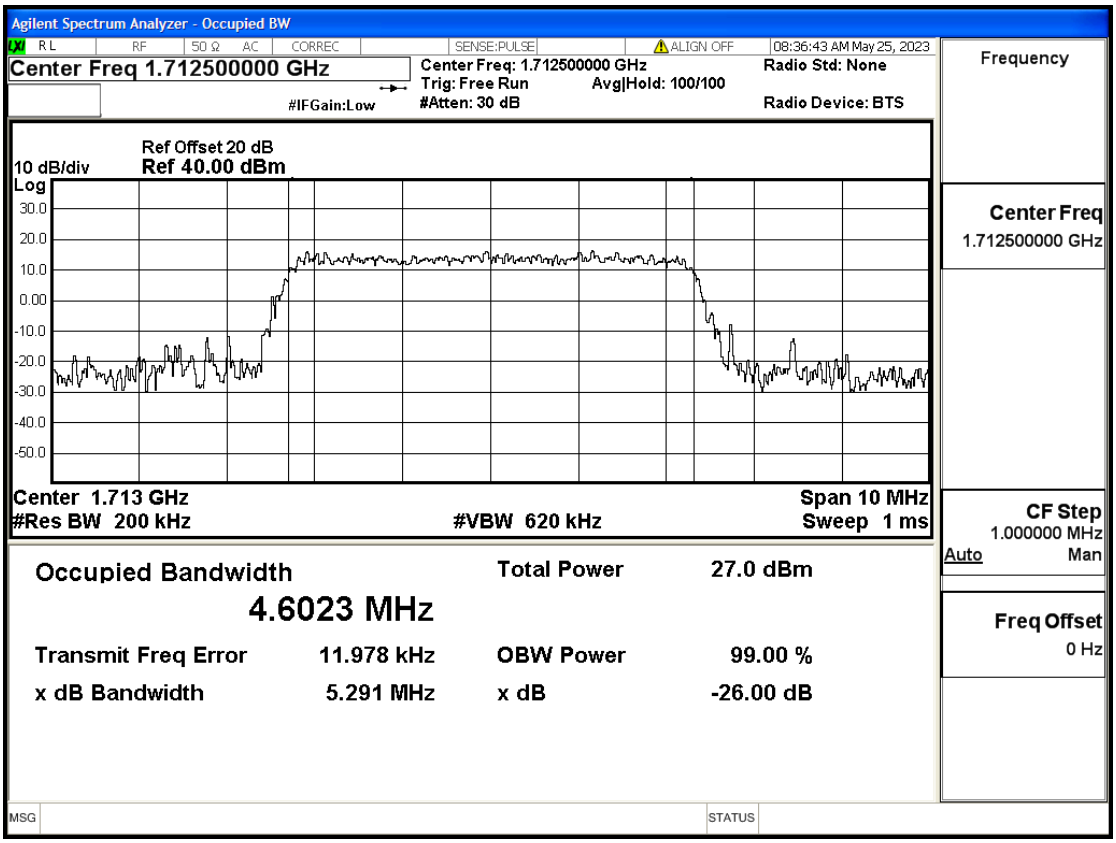
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



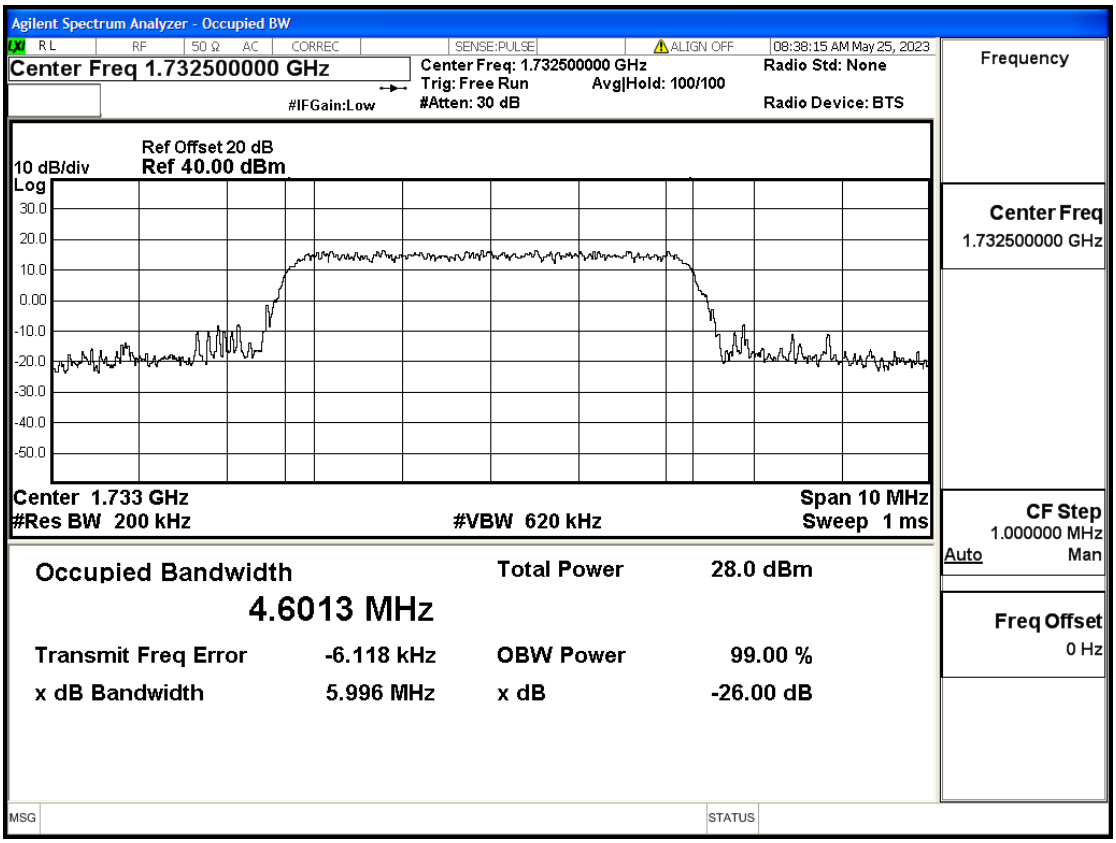
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



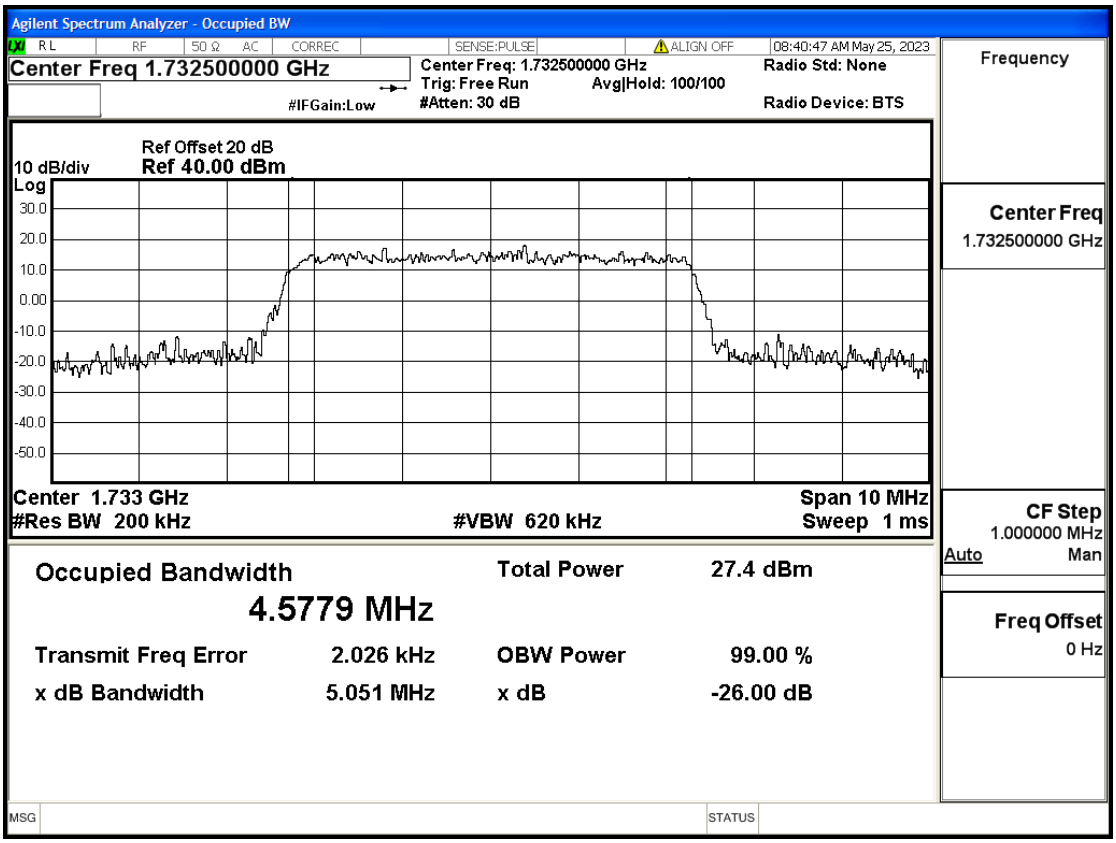
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



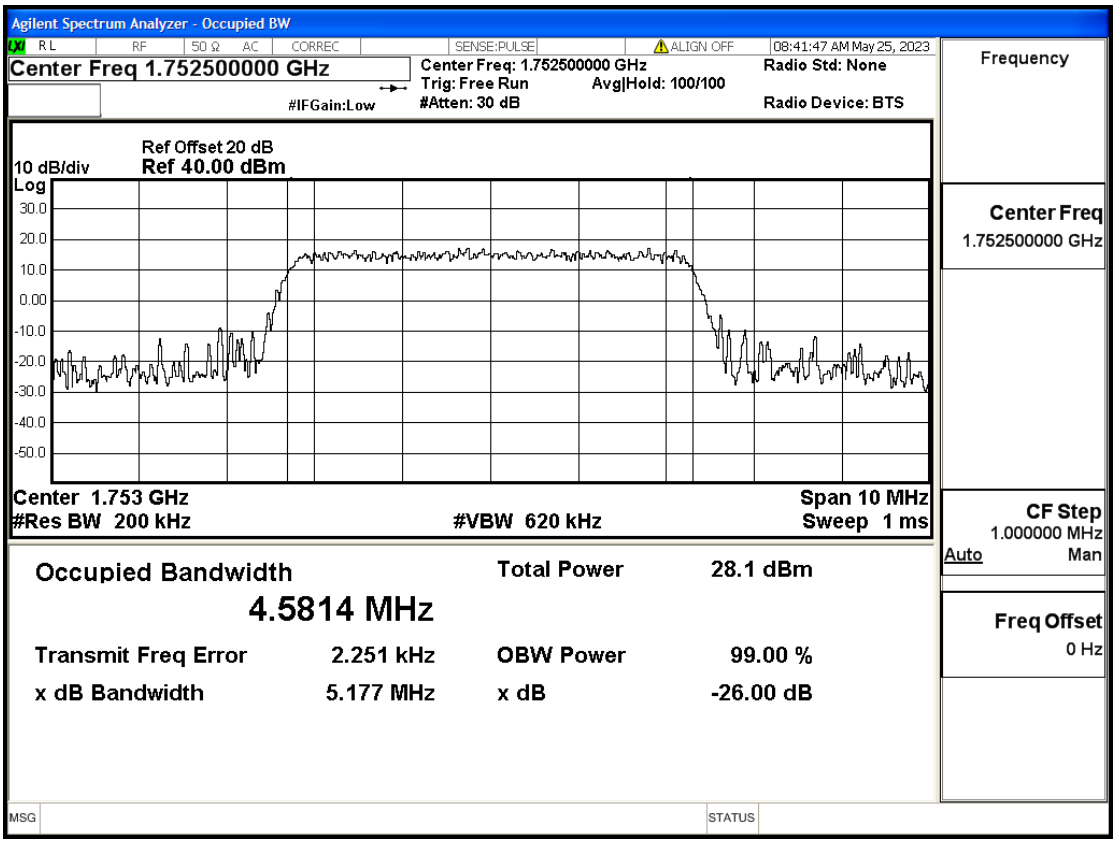
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



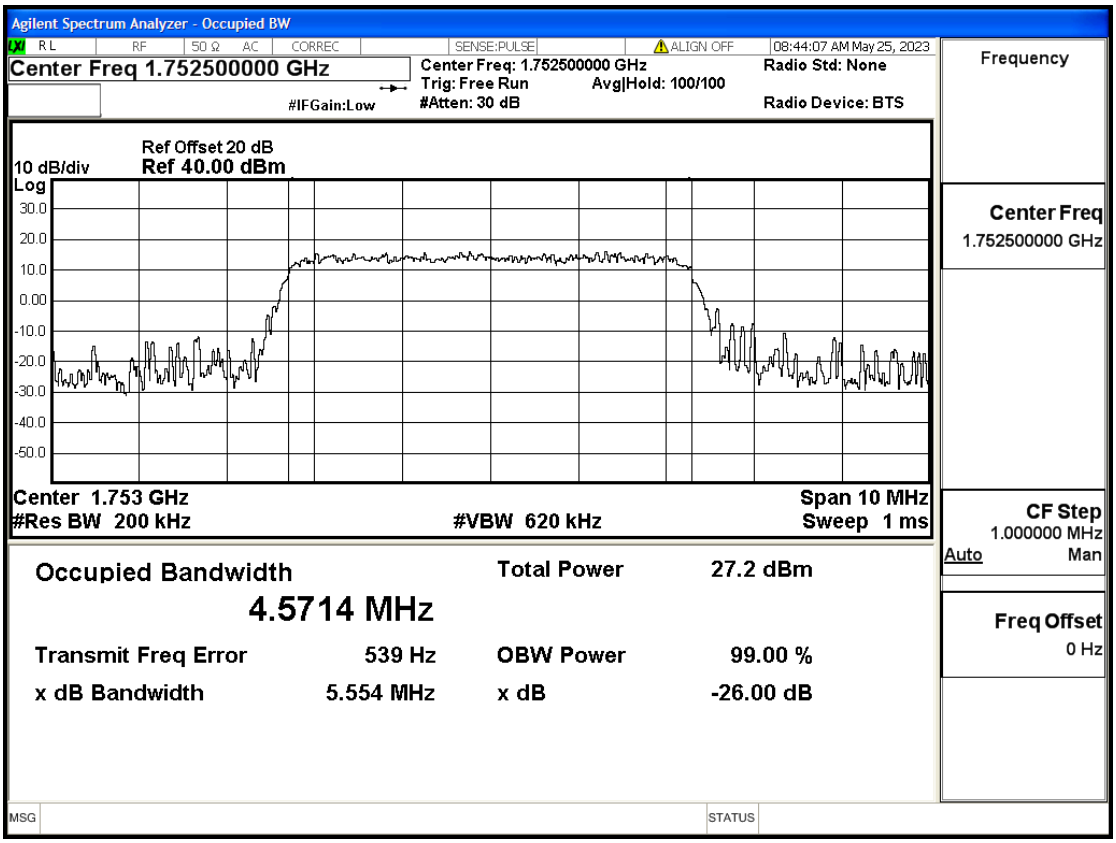
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



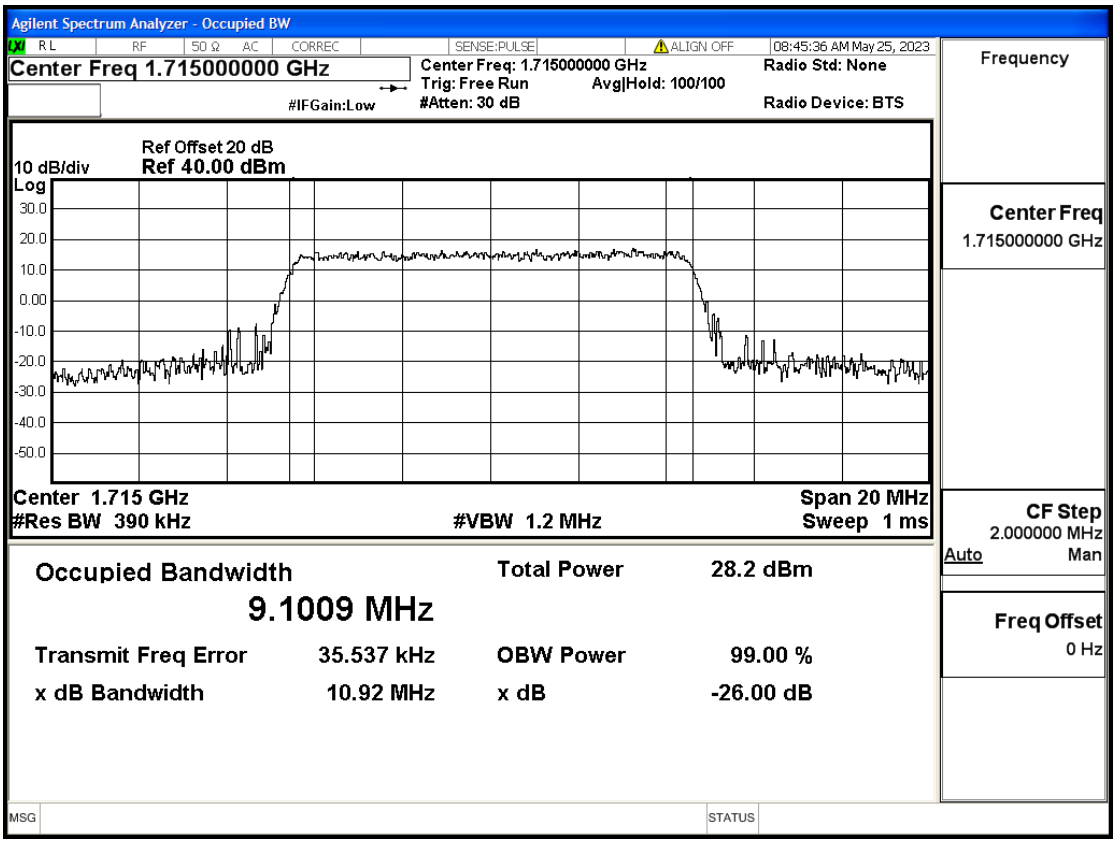
Band4-5-1752.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



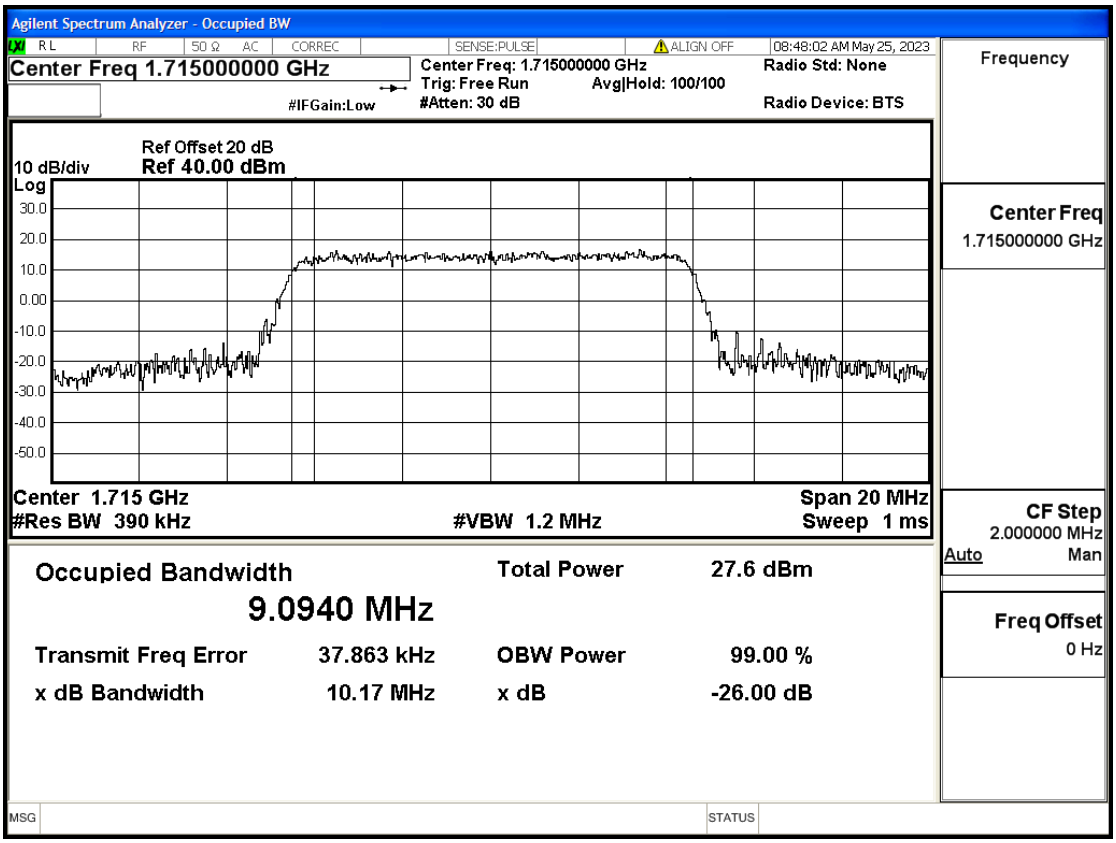
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



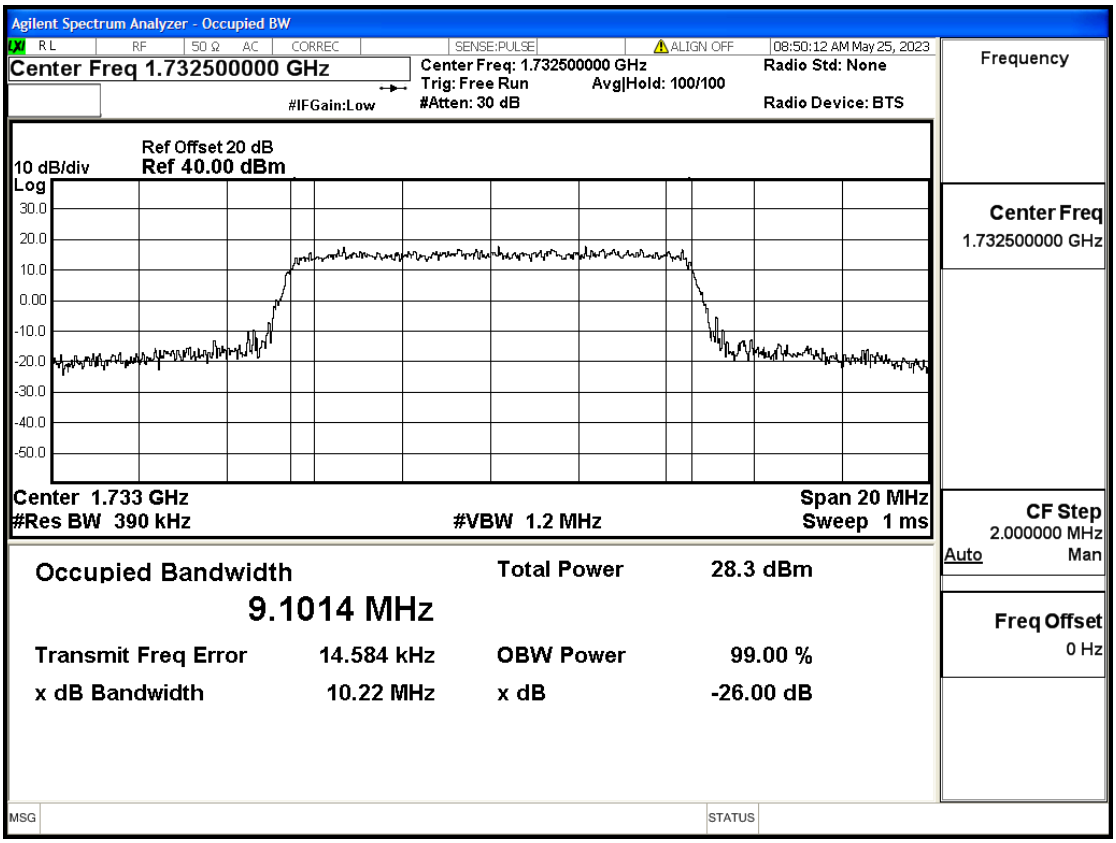
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



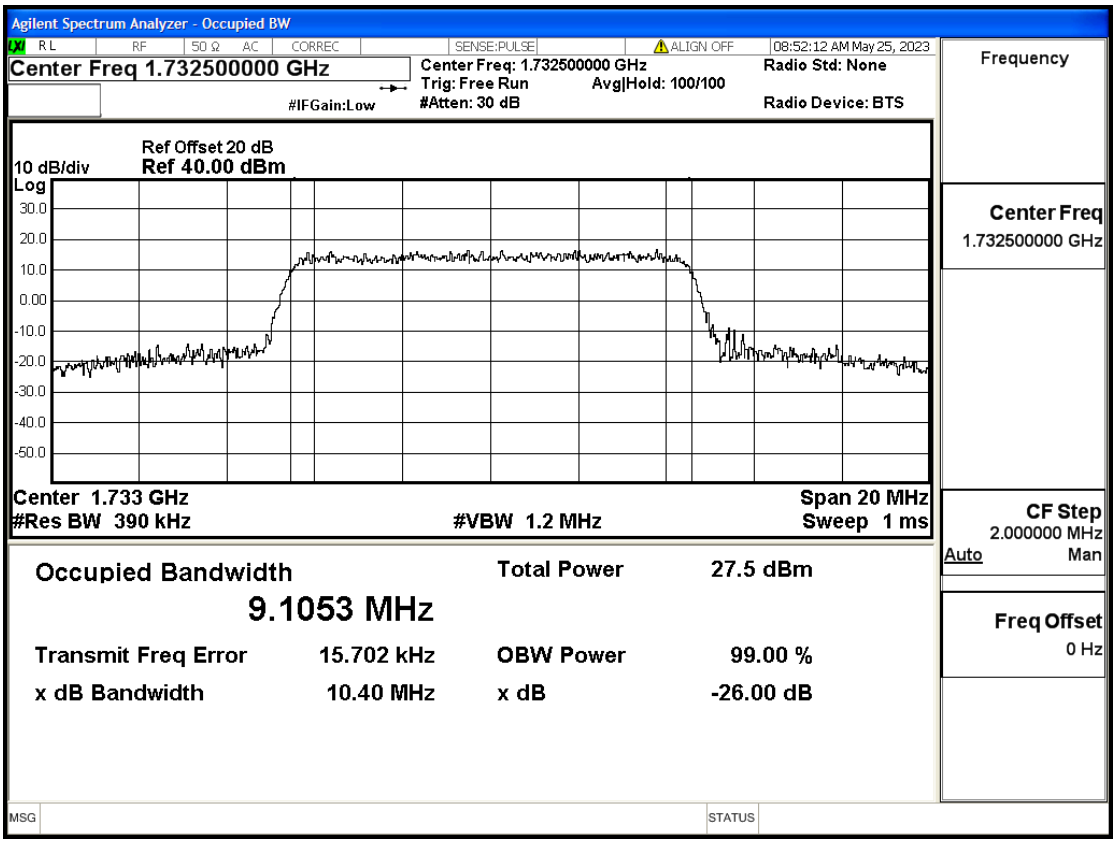
Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth



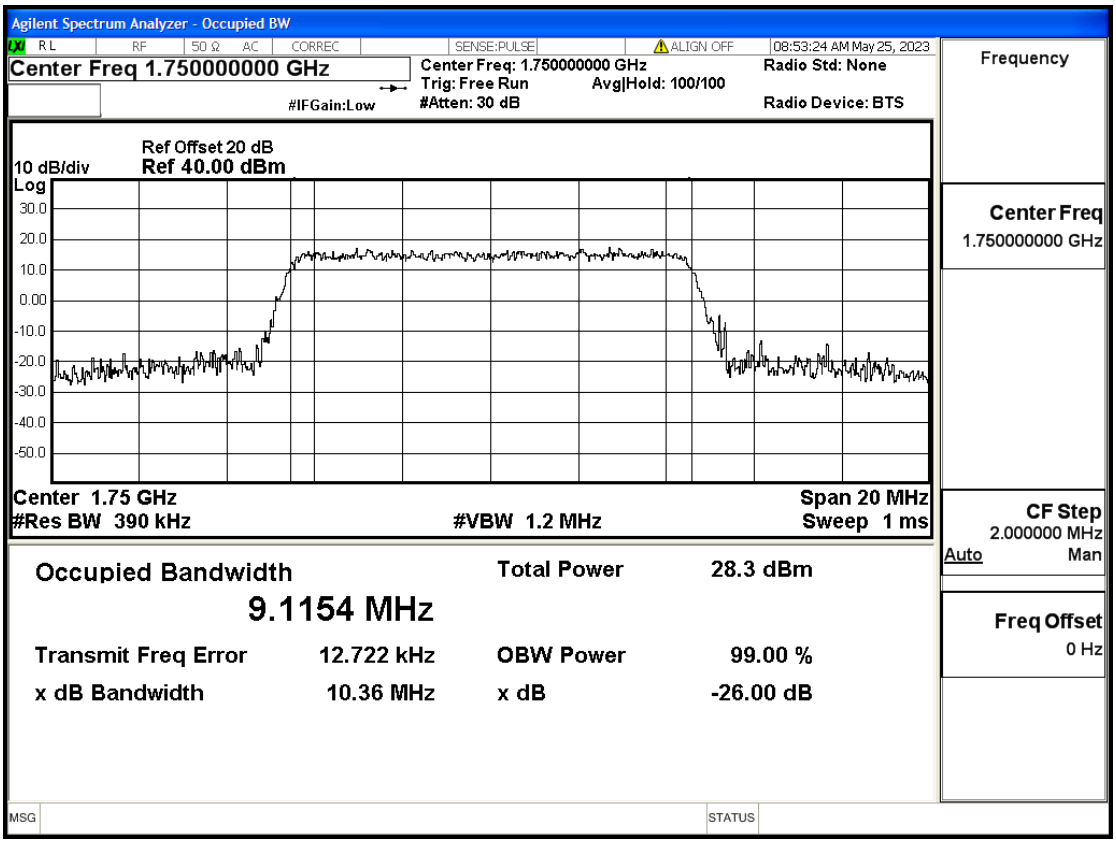
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



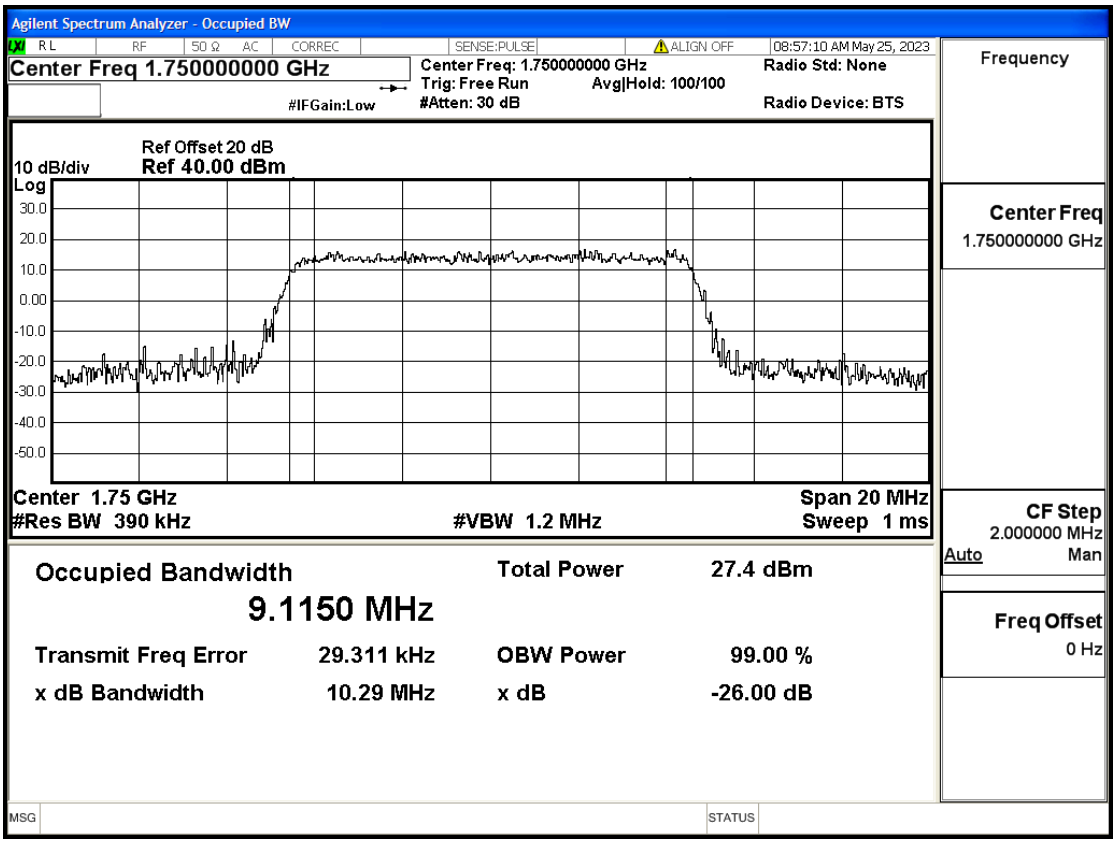
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



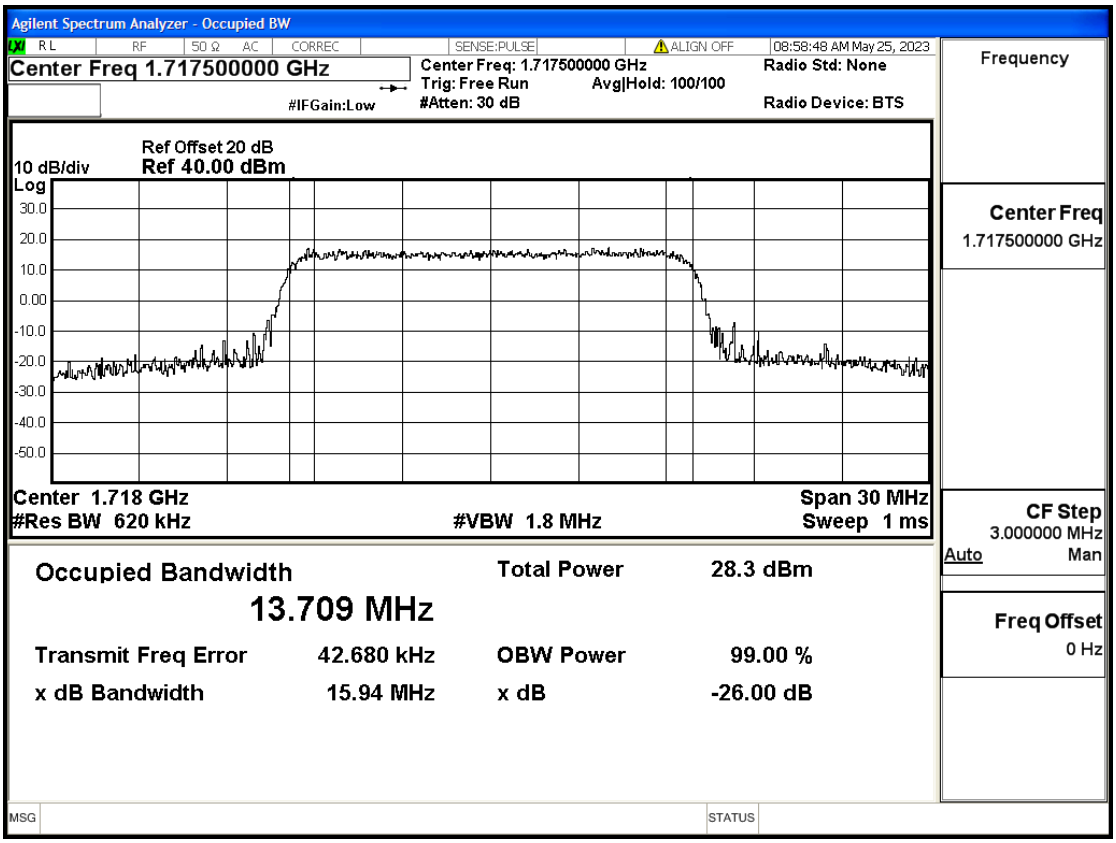
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



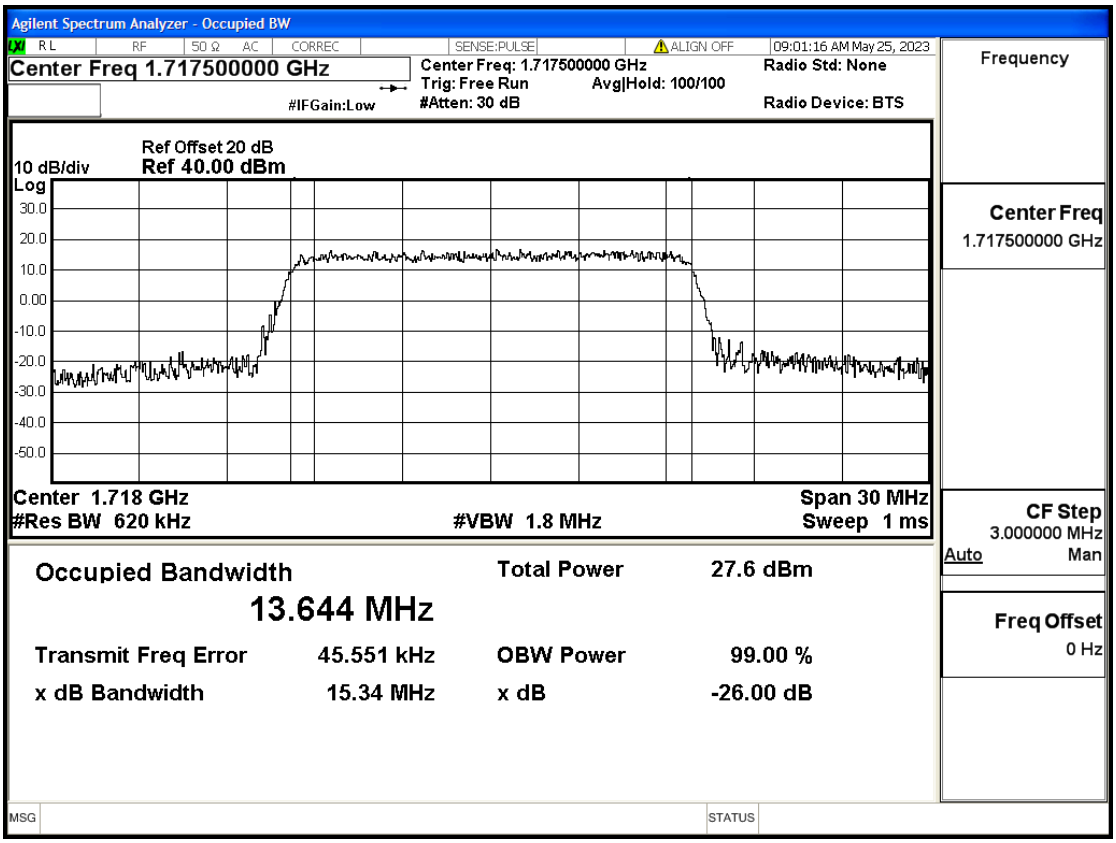
Band4-10-1750-16QAM-50#LOW@26dB and 99PCT Bandwidth



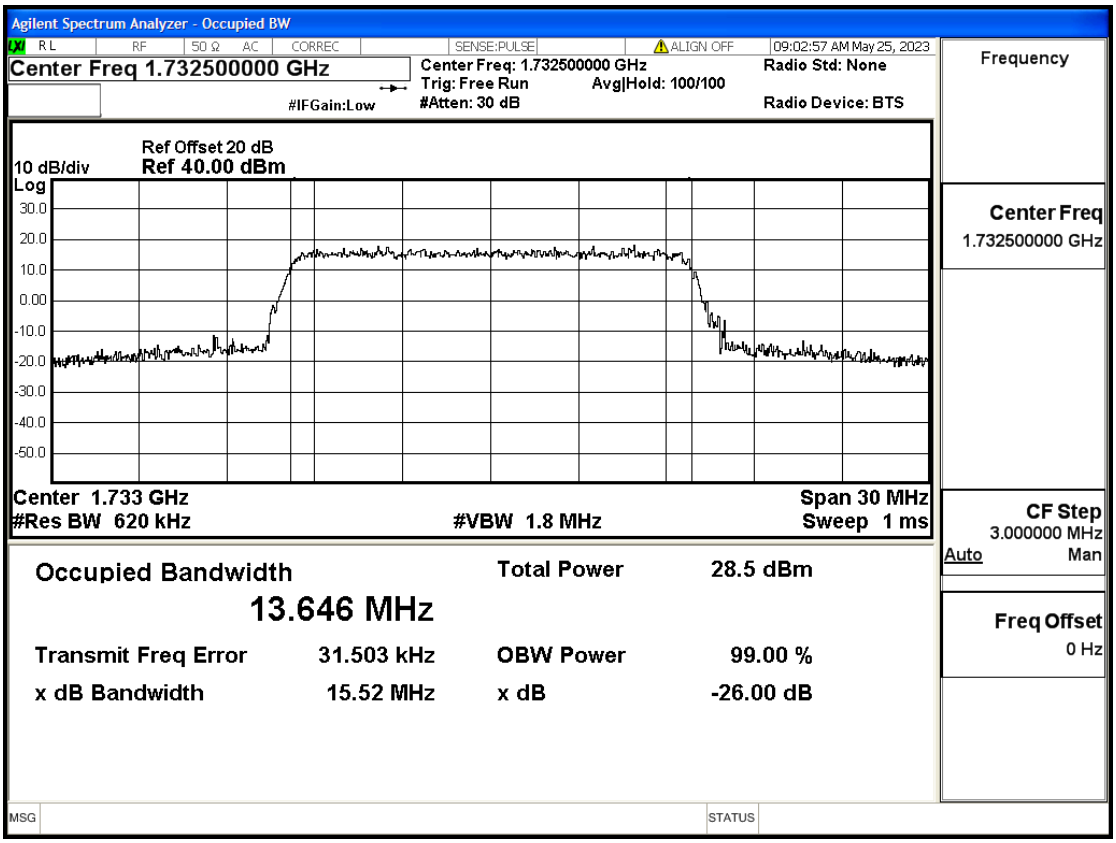
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



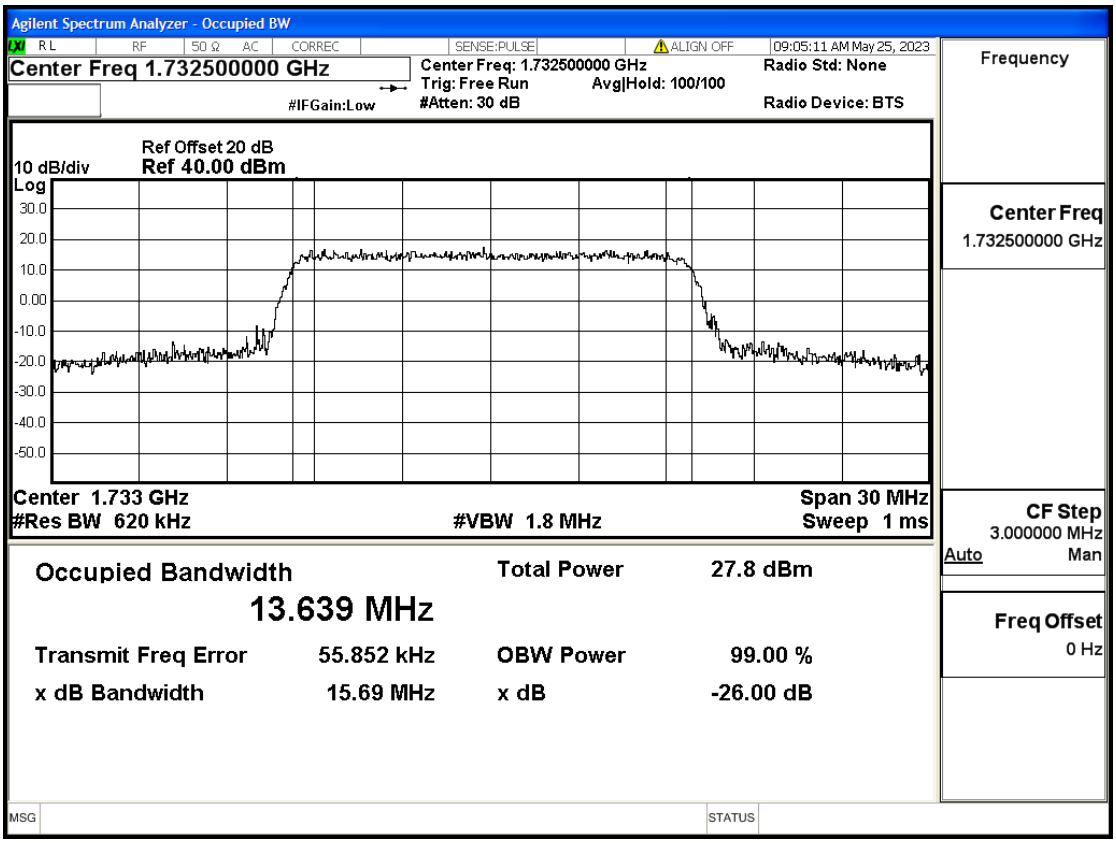
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



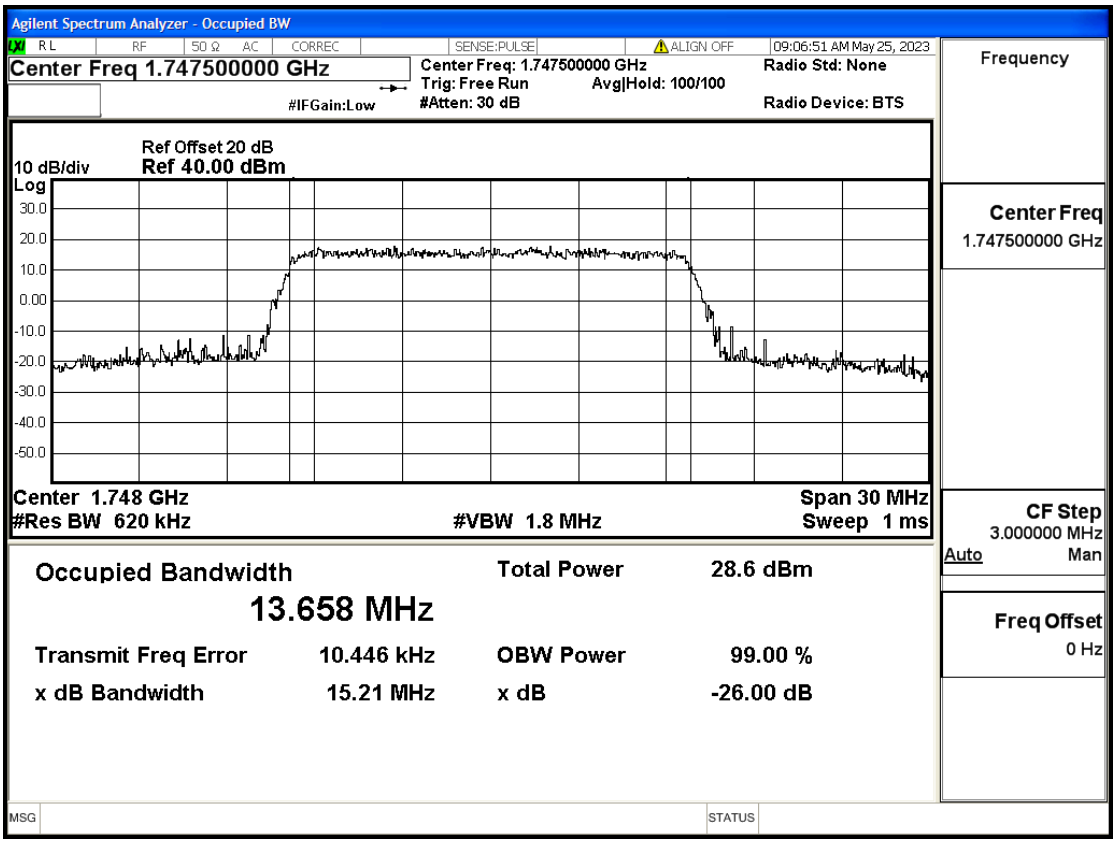
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



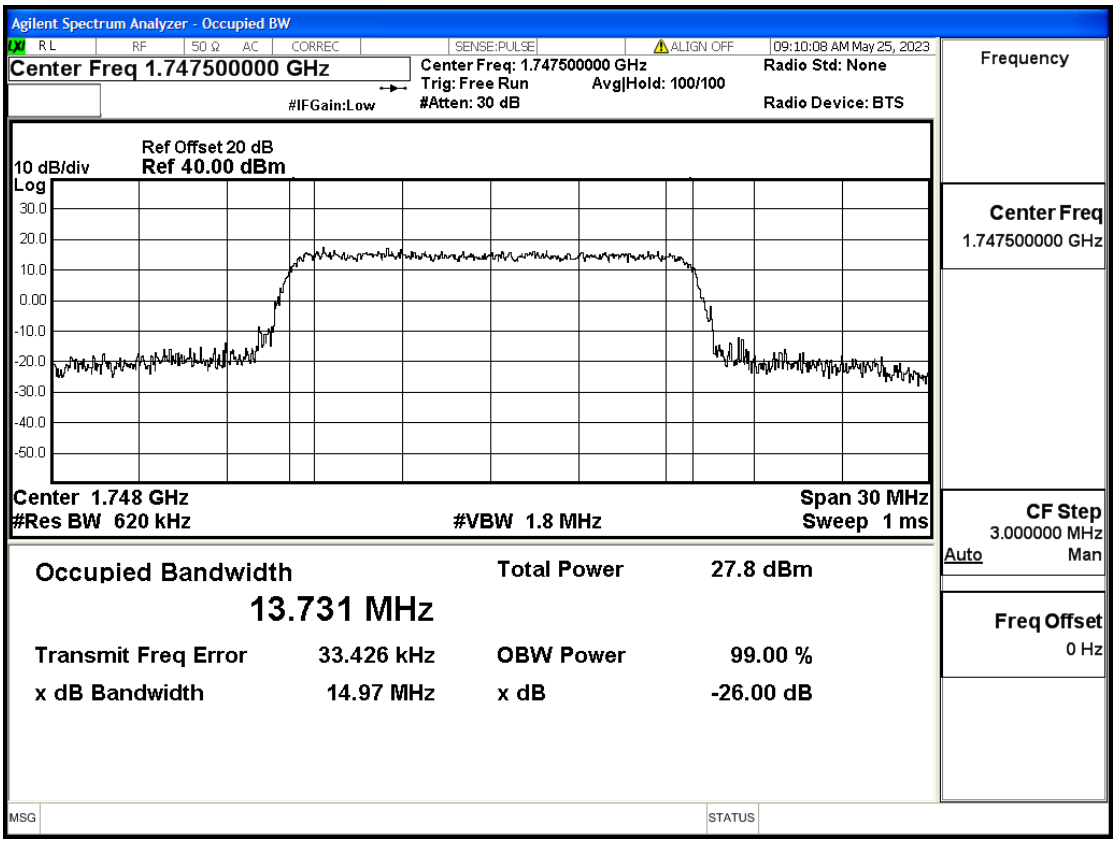
Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



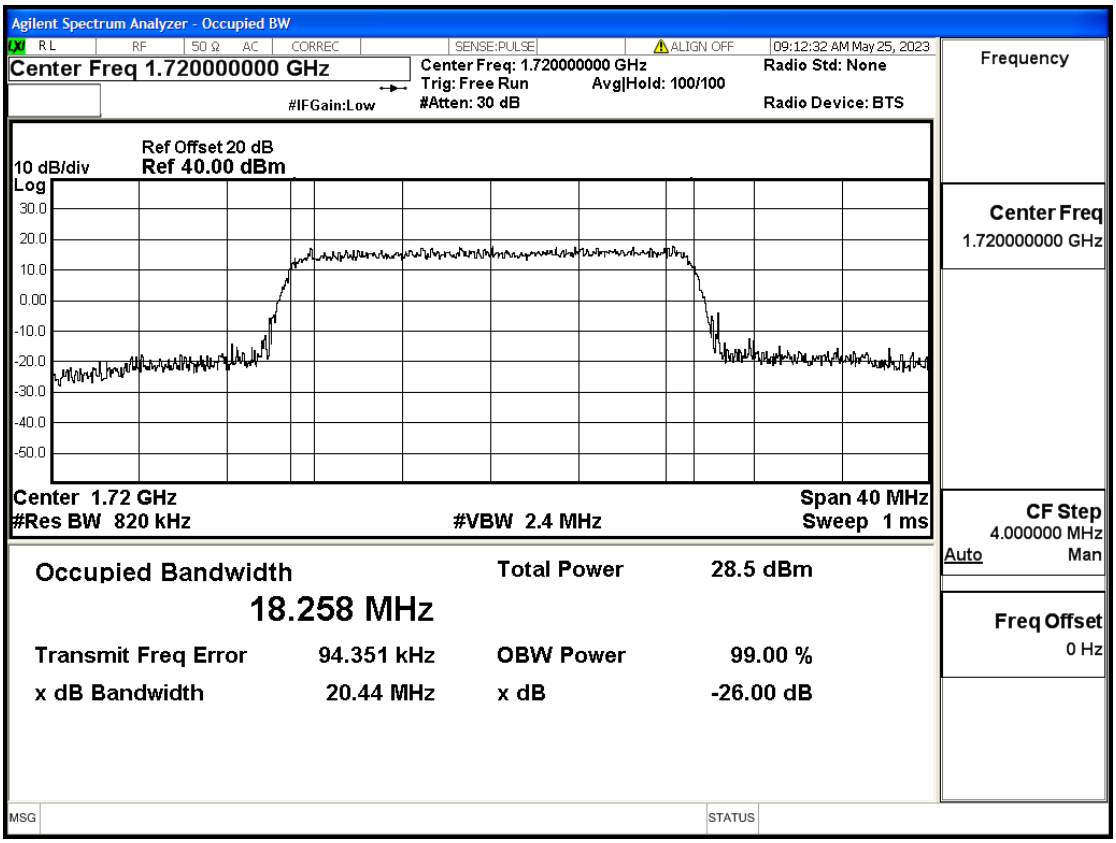
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



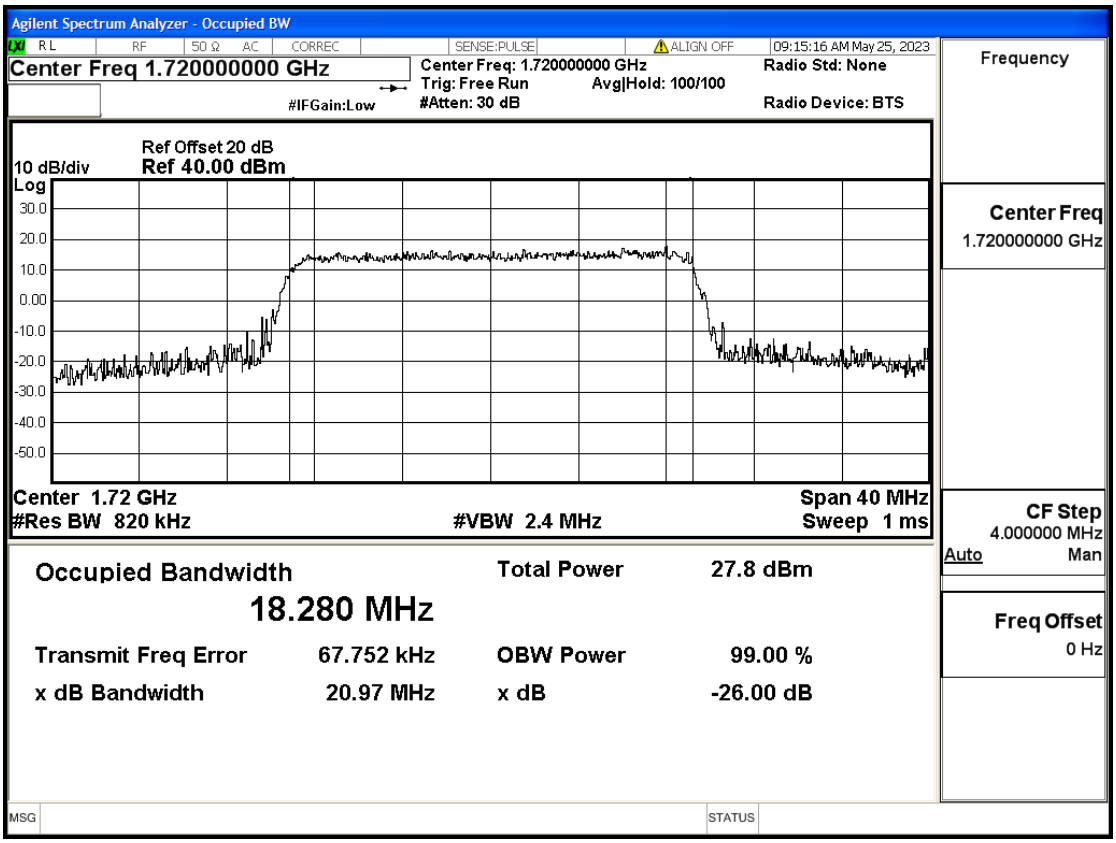
Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



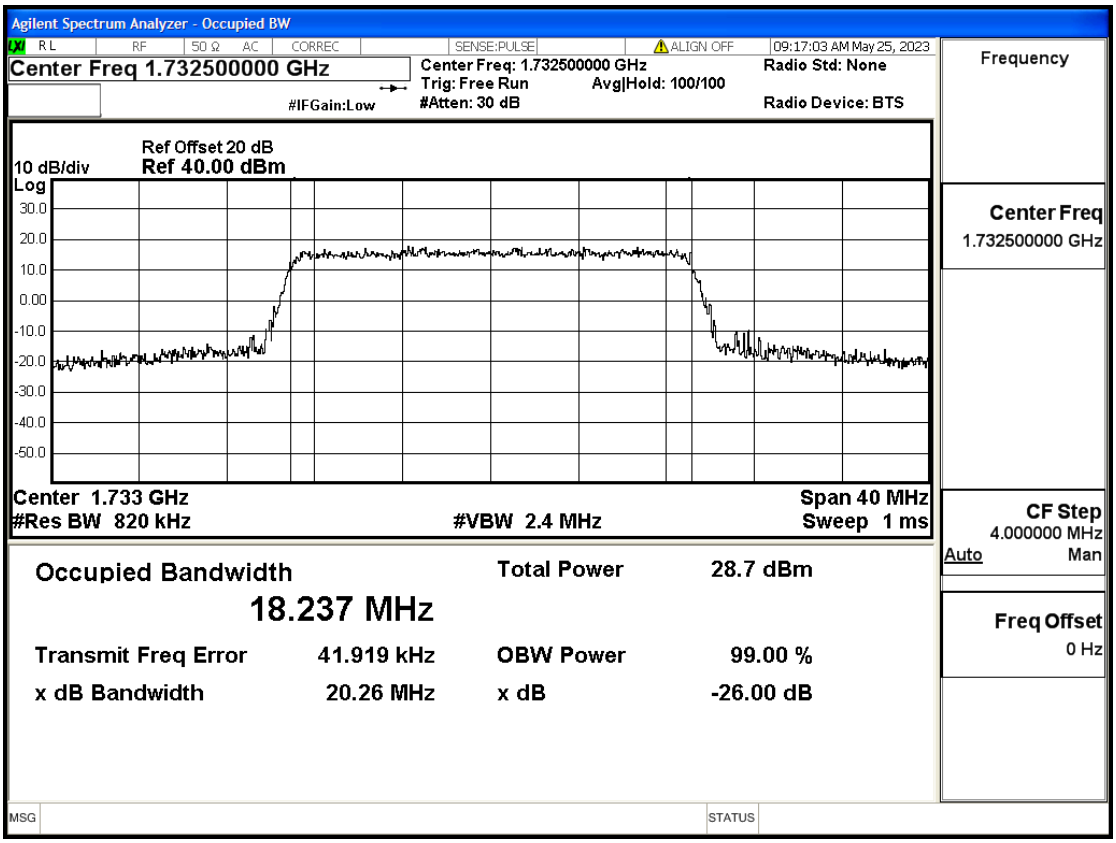
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



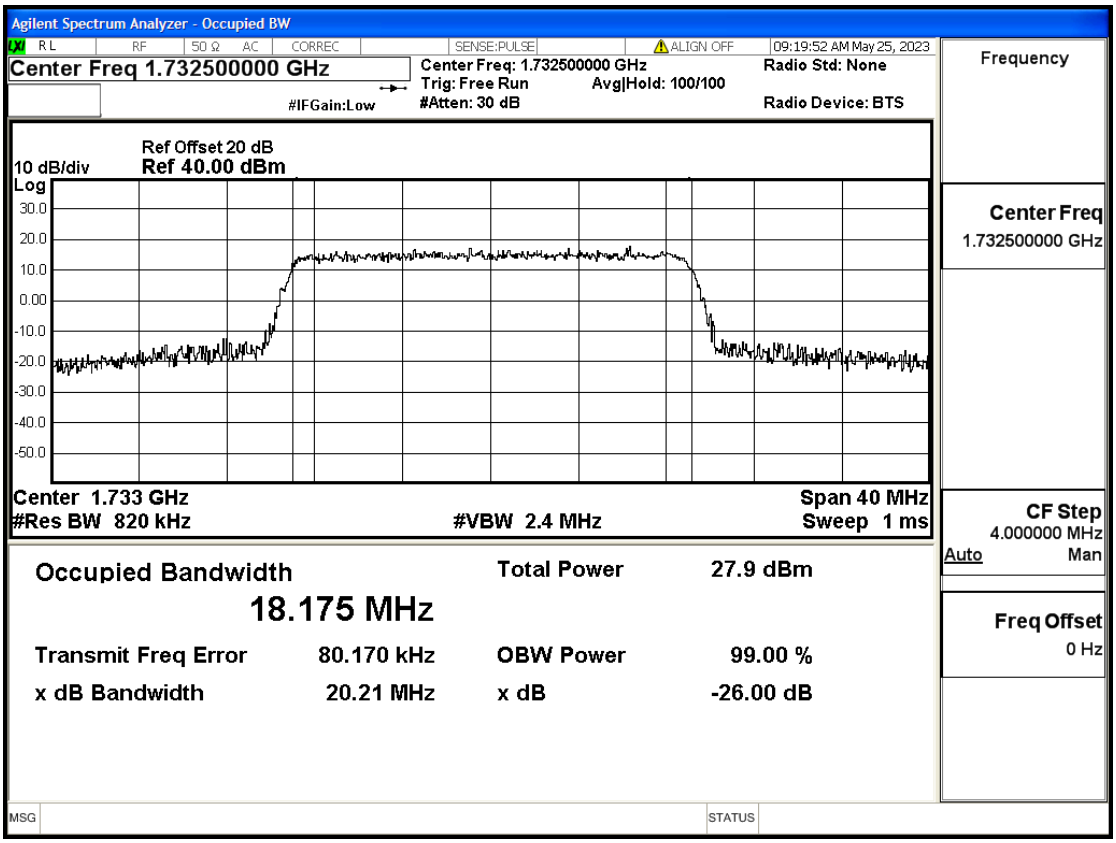
Band4-20-1720-16QAM-100#LOW@26dB and 99PCT Bandwidth



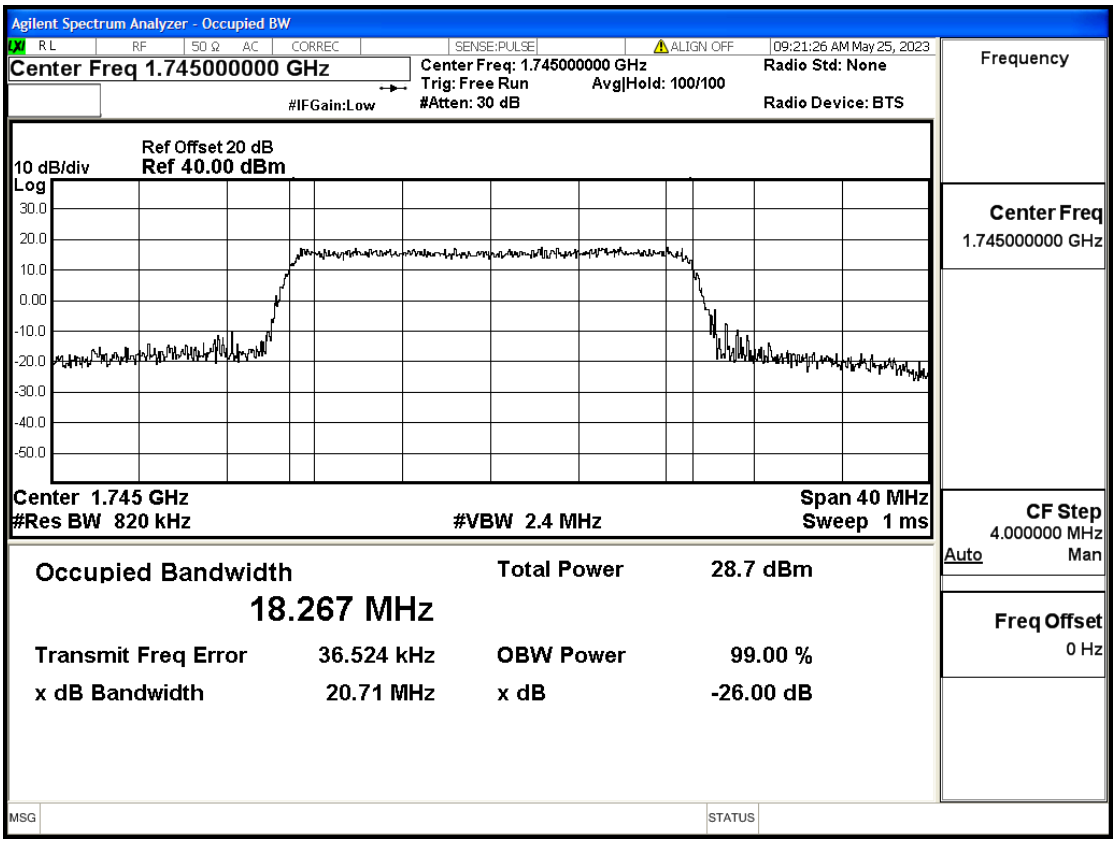
Band4-20-1732.5-QPSK-100#LOW@26dB and 99PCT Bandwidth



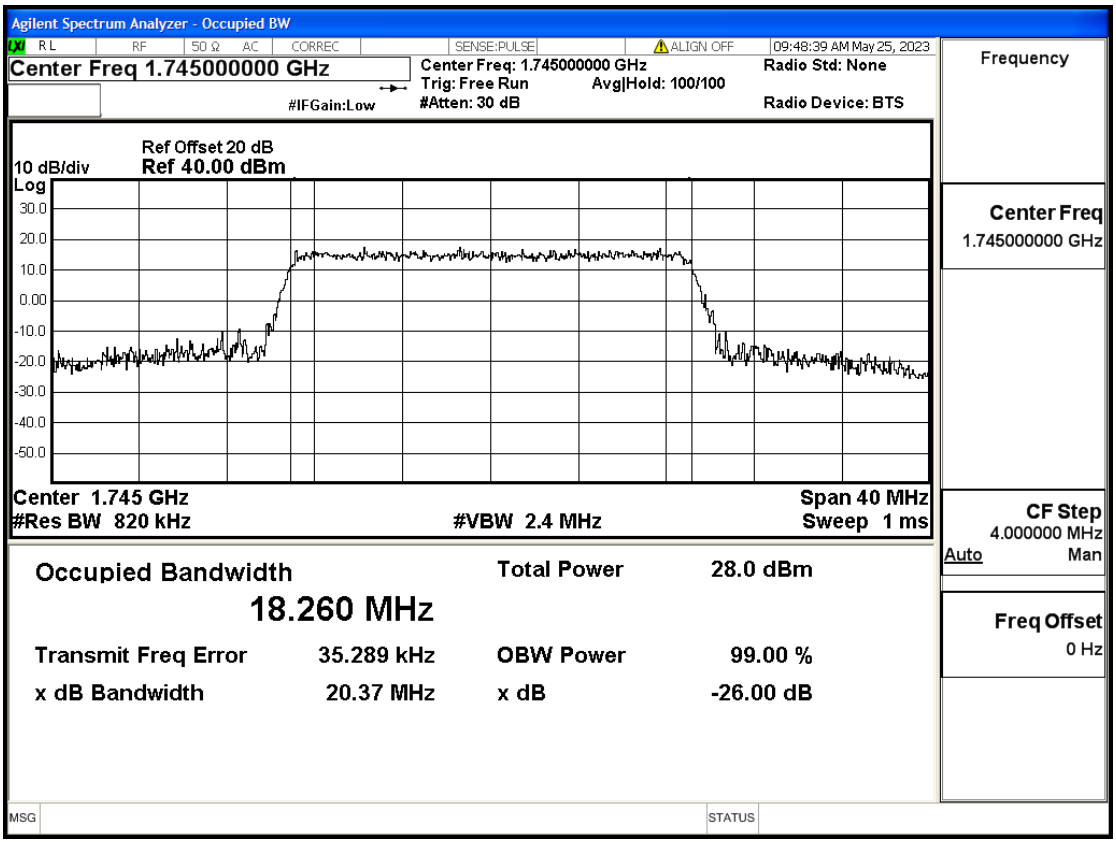
Band4-20-1732.5-16QAM-100#LOW@26dB and 99PCT Bandwidth



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	0.0670	PASS
40	Normal Voltage	0.0325	
30	Normal Voltage	0.0175	
20(Ref.)	Normal Voltage	0.0274	
10	Normal Voltage	0.0581	
0	Normal Voltage	0.0194	
-10	Normal Voltage	0.0411	
-20	Normal Voltage	0.0324	
-30	Normal Voltage	0.0180	
20	Maximum Voltage	0.0185	
20	Normal Voltage	0.0269	
20	Battery End Point	0.0665	

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	22.74	28.55	5.81	13	0.35	23.09	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	23.68	28.28	4.6	13	0.35	24.03	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	23.66	28.23	4.57	13	0.35	24.01	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	23.65	28.23	4.58	13	0.35	24	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	23.7	27.85	4.15	13	0.35	24.05	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	23.63	27.83	4.2	13	0.35	23.98	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	23.71	27.87	4.16	13	0.35	24.06	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	22.06	28.47	6.41	13	0.35	22.41	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	22.94	27.92	4.98	13	0.35	23.29	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	22.94	27.92	4.98	13	0.35	23.29	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	22.96	28.12	5.16	13	0.35	23.31	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	23.58	27.85	4.27	13	0.35	23.93	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	23.55	27.88	4.33	13	0.35	23.9	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	23.6	27.92	4.32	13	0.35	23.95	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	22.78	27.83	5.05	13	0.35	23.13	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	23.76	27.62	3.86	13	0.35	24.11	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	23.76	27.64	3.88	13	0.35	24.11	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	23.74	27.59	3.85	13	0.35	24.09	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	23.83	27.37	3.54	13	0.35	24.18	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	23.78	27.32	3.54	13	0.35	24.13	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	23.82	27.37	3.55	13	0.35	24.17	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	21.97	27.91	5.94	13	0.35	22.32	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	22.72	27.64	4.92	13	0.35	23.07	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	22.72	27.61	4.89	13	0.35	23.07	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	22.72	27.71	4.99	13	0.35	23.07	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	23.54	27.46	3.92	13	0.35	23.89	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	23.52	27.26	3.74	13	0.35	23.87	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	23.51	27.18	3.67	13	0.35	23.86	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	22.57	28.27	5.7	13	0.35	22.92	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	23.77	28.53	4.76	13	0.35	24.12	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	23.76	28.52	4.76	13	0.35	24.11	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	23.74	28.48	4.74	13	0.35	24.09	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	23.94	28.13	4.19	13	0.35	24.29	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	23.89	28.11	4.22	13	0.35	24.24	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	23.9	28.1	4.2	13	0.35	24.25	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	22.19	28.65	6.46	13	0.35	22.54	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	22.79	28.42	5.63	13	0.35	23.14	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	22.79	28.43	5.64	13	0.35	23.14	30	Pass

Band4	1.4	1754.3	16QAM	3	HIGH	22.75	28.37	5.62	13	0.35	23.1	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	22.94	27.67	4.73	13	0.35	23.29	30	Pass
Band4	1.4	1754.3	16QAM	1	MID	23.03	27.74	4.71	13	0.35	23.38	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	22.93	27.64	4.71	13	0.35	23.28	30	Pass
Band4	3	1711.5	QPSK	15	LOW	22.66	28.42	5.76	13	0.35	23.01	30	Pass
Band4	3	1711.5	QPSK	8	LOW	22.59	27.76	5.17	13	0.35	22.94	30	Pass
Band4	3	1711.5	QPSK	8	MID	22.59	27.97	5.38	13	0.35	22.94	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	22.63	27.97	5.34	13	0.35	22.98	30	Pass
Band4	3	1711.5	QPSK	1	LOW	23.56	27.63	4.07	13	0.35	23.91	30	Pass
Band4	3	1711.5	QPSK	1	MID	23.61	27.76	4.15	13	0.35	23.96	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	23.64	27.84	4.2	13	0.35	23.99	30	Pass
Band4	3	1711.5	16QAM	15	LOW	21.89	28.79	6.9	13	0.35	22.24	30	Pass
Band4	3	1711.5	16QAM	8	LOW	22.05	28.23	6.18	13	0.35	22.4	30	Pass
Band4	3	1711.5	16QAM	8	MID	22.05	28.15	6.1	13	0.35	22.4	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	22.23	28.13	5.9	13	0.35	22.58	30	Pass
Band4	3	1711.5	16QAM	1	LOW	23	27.93	4.93	13	0.35	23.35	30	Pass
Band4	3	1711.5	16QAM	1	MID	23.04	28.02	4.98	13	0.35	23.39	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	22.96	28.11	5.15	13	0.35	23.31	30	Pass
Band4	3	1732.5	QPSK	15	LOW	22.67	27.78	5.11	13	0.35	23.02	30	Pass
Band4	3	1732.5	QPSK	8	LOW	22.78	27.8	5.02	13	0.35	23.13	30	Pass
Band4	3	1732.5	QPSK	8	MID	22.78	27.76	4.98	13	0.35	23.13	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	22.7	27.73	5.03	13	0.35	23.05	30	Pass
Band4	3	1732.5	QPSK	1	LOW	23.84	27.45	3.61	13	0.35	24.19	30	Pass
Band4	3	1732.5	QPSK	1	MID	23.81	27.38	3.57	13	0.35	24.16	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	23.87	27.4	3.53	13	0.35	24.22	30	Pass
Band4	3	1732.5	16QAM	15	LOW	21.99	28.53	6.54	13	0.35	22.34	30	Pass
Band4	3	1732.5	16QAM	8	LOW	22.03	27.45	5.42	13	0.35	22.38	30	Pass
Band4	3	1732.5	16QAM	8	MID	22.04	27.63	5.59	13	0.35	22.39	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	22.03	27.55	5.52	13	0.35	22.38	30	Pass
Band4	3	1732.5	16QAM	1	LOW	23.59	27.79	4.2	13	0.35	23.94	30	Pass
Band4	3	1732.5	16QAM	1	MID	23.55	27.39	3.84	13	0.35	23.9	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	23.5	27.53	4.03	13	0.35	23.85	30	Pass
Band4	3	1753.5	QPSK	15	LOW	22.61	29.2	6.59	13	0.35	22.96	30	Pass
Band4	3	1753.5	QPSK	8	LOW	22.62	28.48	5.86	13	0.35	22.97	30	Pass
Band4	3	1753.5	QPSK	8	MID	22.63	28.51	5.88	13	0.35	22.98	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	22.62	28.42	5.8	13	0.35	22.97	30	Pass
Band4	3	1753.5	QPSK	1	LOW	23.83	28.21	4.38	13	0.35	24.18	30	Pass
Band4	3	1753.5	QPSK	1	MID	23.83	28.16	4.33	13	0.35	24.18	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	23.77	28.09	4.32	13	0.35	24.12	30	Pass
Band4	3	1753.5	16QAM	15	LOW	22.08	28.81	6.73	13	0.35	22.43	30	Pass
Band4	3	1753.5	16QAM	8	LOW	22.12	28.33	6.21	13	0.35	22.47	30	Pass
Band4	3	1753.5	16QAM	8	MID	22.2	28.27	6.07	13	0.35	22.55	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	22.2	28.16	5.96	13	0.35	22.55	30	Pass
Band4	3	1753.5	16QAM	1	LOW	22.72	27.63	4.91	13	0.35	23.07	30	Pass
Band4	3	1753.5	16QAM	1	MID	22.65	27.55	4.9	13	0.35	23	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	22.69	27.54	4.85	13	0.35	23.04	30	Pass

Band4	5	1712.5	QPSK	25	LOW	21.64	28.32	6.68	13	0.35	21.99	30	Pass
Band4	5	1712.5	QPSK	12	LOW	22.67	27.88	5.21	13	0.35	23.02	30	Pass
Band4	5	1712.5	QPSK	12	MID	22.64	27.9	5.26	13	0.35	22.99	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	22.71	28.04	5.33	13	0.35	23.06	30	Pass
Band4	5	1712.5	QPSK	1	LOW	23.57	27.75	4.18	13	0.35	23.92	30	Pass
Band4	5	1712.5	QPSK	1	MID	23.62	27.88	4.26	13	0.35	23.97	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	23.55	27.99	4.44	13	0.35	23.9	30	Pass
Band4	5	1712.5	16QAM	25	LOW	21.66	28.8	7.14	13	0.35	22.01	30	Pass
Band4	5	1712.5	16QAM	12	LOW	21.72	27.94	6.22	13	0.35	22.07	30	Pass
Band4	5	1712.5	16QAM	12	MID	21.71	27.98	6.27	13	0.35	22.06	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	21.66	28.06	6.4	13	0.35	22.01	30	Pass
Band4	5	1712.5	16QAM	1	LOW	22.4	27.6	5.2	13	0.35	22.75	30	Pass
Band4	5	1712.5	16QAM	1	MID	22.38	27.76	5.38	13	0.35	22.73	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	22.42	28.04	5.62	13	0.35	22.77	30	Pass
Band4	5	1732.5	QPSK	25	LOW	22.72	28.18	5.46	13	0.35	23.07	30	Pass
Band4	5	1732.5	QPSK	12	LOW	22.83	27.57	4.74	13	0.35	23.18	30	Pass
Band4	5	1732.5	QPSK	12	MID	22.83	27.58	4.75	13	0.35	23.18	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	22.78	27.51	4.73	13	0.35	23.13	30	Pass
Band4	5	1732.5	QPSK	1	LOW	23.84	27.51	3.67	13	0.35	24.19	30	Pass
Band4	5	1732.5	QPSK	1	MID	23.79	27.37	3.58	13	0.35	24.14	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	23.84	27.35	3.51	13	0.35	24.19	30	Pass
Band4	5	1732.5	16QAM	25	LOW	21.97	28.24	6.27	13	0.35	22.32	30	Pass
Band4	5	1732.5	16QAM	12	LOW	21.89	27.66	5.77	13	0.35	22.24	30	Pass
Band4	5	1732.5	16QAM	12	MID	21.9	27.67	5.77	13	0.35	22.25	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	21.86	27.53	5.67	13	0.35	22.21	30	Pass
Band4	5	1732.5	16QAM	1	LOW	22.2	27.05	4.85	13	0.35	22.55	30	Pass
Band4	5	1732.5	16QAM	1	MID	22.14	26.91	4.77	13	0.35	22.49	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	22.08	26.89	4.81	13	0.35	22.43	30	Pass
Band4	5	1752.5	QPSK	25	LOW	22.58	28.76	6.18	13	0.35	22.93	30	Pass
Band4	5	1752.5	QPSK	12	LOW	22.64	28.45	5.81	13	0.35	22.99	30	Pass
Band4	5	1752.5	QPSK	12	MID	22.63	28.31	5.68	13	0.35	22.98	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	22.61	28.33	5.72	13	0.35	22.96	30	Pass
Band4	5	1752.5	QPSK	1	LOW	23.72	28.45	4.73	13	0.35	24.07	30	Pass
Band4	5	1752.5	QPSK	1	MID	23.84	27.91	4.07	13	0.35	24.19	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	23.8	27.83	4.03	13	0.35	24.15	30	Pass
Band4	5	1752.5	16QAM	25	LOW	21.71	28.4	6.69	13	0.35	22.06	30	Pass
Band4	5	1752.5	16QAM	12	LOW	21.8	28.16	6.36	13	0.35	22.15	30	Pass
Band4	5	1752.5	16QAM	12	MID	21.8	28.15	6.35	13	0.35	22.15	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	21.78	28.08	6.3	13	0.35	22.13	30	Pass
Band4	5	1752.5	16QAM	1	LOW	22.63	27.82	5.19	13	0.35	22.98	30	Pass
Band4	5	1752.5	16QAM	1	MID	22.56	27.74	5.18	13	0.35	22.91	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	22.6	27.73	5.13	13	0.35	22.95	30	Pass
Band4	10	1715	QPSK	50	LOW	22.61	28.58	5.97	13	0.35	22.96	30	Pass
Band4	10	1715	QPSK	25	LOW	22.77	28.23	5.46	13	0.35	23.12	30	Pass
Band4	10	1715	QPSK	25	MID	22.64	28.15	5.51	13	0.35	22.99	30	Pass
Band4	10	1715	QPSK	25	HIGH	22.58	28.27	5.69	13	0.35	22.93	30	Pass

Band4	10	1715	QPSK	1	LOW	23.73	27.81	4.08	13	0.35	24.08	30	Pass
Band4	10	1715	QPSK	1	MID	23.66	27.73	4.07	13	0.35	24.01	30	Pass
Band4	10	1715	QPSK	1	HIGH	23.68	27.95	4.27	13	0.35	24.03	30	Pass
Band4	10	1715	16QAM	50	LOW	21.89	28.67	6.78	13	0.35	22.24	30	Pass
Band4	10	1715	16QAM	25	LOW	21.75	28.14	6.39	13	0.35	22.1	30	Pass
Band4	10	1715	16QAM	25	MID	21.75	28.16	6.41	13	0.35	22.1	30	Pass
Band4	10	1715	16QAM	25	HIGH	21.99	28.37	6.38	13	0.35	22.34	30	Pass
Band4	10	1715	16QAM	1	LOW	23.07	27.81	4.74	13	0.35	23.42	30	Pass
Band4	10	1715	16QAM	1	MID	23.07	28.07	5	13	0.35	23.42	30	Pass
Band4	10	1715	16QAM	1	HIGH	22.98	28.06	5.08	13	0.35	23.33	30	Pass
Band4	10	1732.5	QPSK	50	LOW	22.77	28.17	5.4	13	0.35	23.12	30	Pass
Band4	10	1732.5	QPSK	25	LOW	22.81	27.65	4.84	13	0.35	23.16	30	Pass
Band4	10	1732.5	QPSK	25	MID	22.81	27.69	4.88	13	0.35	23.16	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	22.75	27.6	4.85	13	0.35	23.1	30	Pass
Band4	10	1732.5	QPSK	1	LOW	23.9	27.77	3.87	13	0.35	24.25	30	Pass
Band4	10	1732.5	QPSK	1	MID	23.93	27.17	3.24	13	0.35	24.28	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	24.04	27.23	3.19	13	0.35	24.39	30	Pass
Band4	10	1732.5	16QAM	50	LOW	21.96	28.02	6.06	13	0.35	22.31	30	Pass
Band4	10	1732.5	16QAM	25	LOW	22.09	27.77	5.68	13	0.35	22.44	30	Pass
Band4	10	1732.5	16QAM	25	MID	22.1	27.73	5.63	13	0.35	22.45	30	Pass
Band4	10	1732.5	16QAM	25	HIGH	22.01	27.66	5.65	13	0.35	22.36	30	Pass
Band4	10	1732.5	16QAM	1	LOW	23.1	27.57	4.47	13	0.35	23.45	30	Pass
Band4	10	1732.5	16QAM	1	MID	22.93	26.89	3.96	13	0.35	23.28	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	23.08	27.67	4.59	13	0.35	23.43	30	Pass
Band4	10	1750	QPSK	50	LOW	22.67	28.56	5.89	13	0.35	23.02	30	Pass
Band4	10	1750	QPSK	25	LOW	22.66	28.25	5.59	13	0.35	23.01	30	Pass
Band4	10	1750	QPSK	25	MID	22.66	28.41	5.75	13	0.35	23.01	30	Pass
Band4	10	1750	QPSK	25	HIGH	22.71	28.54	5.83	13	0.35	23.06	30	Pass
Band4	10	1750	QPSK	1	LOW	24.01	27.74	3.73	13	0.35	24.36	30	Pass
Band4	10	1750	QPSK	1	MID	23.82	27.9	4.08	13	0.35	24.17	30	Pass
Band4	10	1750	QPSK	1	HIGH	23.91	27.86	3.95	13	0.35	24.26	30	Pass
Band4	10	1750	16QAM	50	LOW	21.93	28.8	6.87	13	0.35	22.28	30	Pass
Band4	10	1750	16QAM	25	LOW	21.95	28.26	6.31	13	0.35	22.3	30	Pass
Band4	10	1750	16QAM	25	MID	21.95	28.16	6.21	13	0.35	22.3	30	Pass
Band4	10	1750	16QAM	25	HIGH	21.88	28.29	6.41	13	0.35	22.23	30	Pass
Band4	10	1750	16QAM	1	LOW	22.67	27.29	4.62	13	0.35	23.02	30	Pass
Band4	10	1750	16QAM	1	MID	22.63	27.45	4.82	13	0.35	22.98	30	Pass
Band4	10	1750	16QAM	1	HIGH	22.65	27.43	4.78	13	0.35	23	30	Pass
Band4	15	1717.5	QPSK	75	LOW	22.61	29.02	6.41	13	0.35	22.96	30	Pass
Band4	15	1717.5	QPSK	38	LOW	22.62	29.01	6.39	13	0.35	22.97	30	Pass
Band4	15	1717.5	QPSK	38	MID	22.62	29.02	6.4	13	0.35	22.97	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	22.62	28.88	6.26	13	0.35	22.97	30	Pass
Band4	15	1717.5	QPSK	1	LOW	23.75	27.9	4.15	13	0.35	24.1	30	Pass
Band4	15	1717.5	QPSK	1	MID	23.62	27.75	4.13	13	0.35	23.97	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	23.64	27.91	4.27	13	0.35	23.99	30	Pass
Band4	15	1717.5	16QAM	75	LOW	21.81	28.6	6.79	13	0.35	22.16	30	Pass

Band4	15	1717.5	16QAM	38	LOW	21.84	28.67	6.83	13	0.35	22.19	30	Pass
Band4	15	1717.5	16QAM	38	MID	21.73	28.65	6.92	13	0.35	22.08	30	Pass
Band4	15	1717.5	16QAM	38	HIGH	21.85	28.62	6.77	13	0.35	22.2	30	Pass
Band4	15	1717.5	16QAM	1	LOW	23.25	28.46	5.21	13	0.35	23.6	30	Pass
Band4	15	1717.5	16QAM	1	MID	23.15	28.09	4.94	13	0.35	23.5	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	23.17	27.83	4.66	13	0.35	23.52	30	Pass
Band4	15	1732.5	QPSK	75	LOW	22.78	28.62	5.84	13	0.35	23.13	30	Pass
Band4	15	1732.5	QPSK	38	LOW	22.8	28.63	5.83	13	0.35	23.15	30	Pass
Band4	15	1732.5	QPSK	38	MID	22.8	28.54	5.74	13	0.35	23.15	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	22.81	28.61	5.8	13	0.35	23.16	30	Pass
Band4	15	1732.5	QPSK	1	LOW	23.97	27.97	4	13	0.35	24.32	30	Pass
Band4	15	1732.5	QPSK	1	MID	23.98	27.23	3.25	13	0.35	24.33	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	24.01	27.67	3.66	13	0.35	24.36	30	Pass
Band4	15	1732.5	16QAM	75	LOW	21.92	28.34	6.42	13	0.35	22.27	30	Pass
Band4	15	1732.5	16QAM	38	LOW	21.95	28.38	6.43	13	0.35	22.3	30	Pass
Band4	15	1732.5	16QAM	38	MID	21.96	28.32	6.36	13	0.35	22.31	30	Pass
Band4	15	1732.5	16QAM	38	HIGH	21.97	28.41	6.44	13	0.35	22.32	30	Pass
Band4	15	1732.5	16QAM	1	LOW	23.08	28.01	4.93	13	0.35	23.43	30	Pass
Band4	15	1732.5	16QAM	1	MID	23.09	27.1	4.01	13	0.35	23.44	30	Pass
Band4	15	1732.5	16QAM	1	HIGH	23.21	27.58	4.37	13	0.35	23.56	30	Pass
Band4	15	1747.5	QPSK	75	LOW	22.74	28.93	6.19	13	0.35	23.09	30	Pass
Band4	15	1747.5	QPSK	38	LOW	22.71	28.85	6.14	13	0.35	23.06	30	Pass
Band4	15	1747.5	QPSK	38	MID	22.83	28.75	5.92	13	0.35	23.18	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	22.83	28.9	6.07	13	0.35	23.18	30	Pass
Band4	15	1747.5	QPSK	1	LOW	24.13	28.12	3.99	13	0.35	24.48	30	Pass
Band4	15	1747.5	QPSK	1	MID	23.89	27.8	3.91	13	0.35	24.24	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	23.97	28.05	4.08	13	0.35	24.32	30	Pass
Band4	15	1747.5	16QAM	75	LOW	21.9	28.69	6.79	13	0.35	22.25	30	Pass
Band4	15	1747.5	16QAM	38	LOW	21.95	28.73	6.78	13	0.35	22.3	30	Pass
Band4	15	1747.5	16QAM	38	MID	21.84	28.68	6.84	13	0.35	22.19	30	Pass
Band4	15	1747.5	16QAM	38	HIGH	21.96	28.74	6.78	13	0.35	22.31	30	Pass
Band4	15	1747.5	16QAM	1	LOW	23.52	28.27	4.75	13	0.35	23.87	30	Pass
Band4	15	1747.5	16QAM	1	MID	23.42	27.62	4.2	13	0.35	23.77	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	23.53	28.47	4.94	13	0.35	23.88	30	Pass
Band4	20	1720	QPSK	100	LOW	22.7	28.52	5.82	13	0.35	23.05	30	Pass
Band4	20	1720	QPSK	50	LOW	22.62	28.2	5.58	13	0.35	22.97	30	Pass
Band4	20	1720	QPSK	50	MID	22.61	28.24	5.63	13	0.35	22.96	30	Pass
Band4	20	1720	QPSK	50	HIGH	22.66	28.02	5.36	13	0.35	23.01	30	Pass
Band4	20	1720	QPSK	1	LOW	23.95	28.17	4.22	13	0.35	24.3	30	Pass
Band4	20	1720	QPSK	1	MID	23.8	27.86	4.06	13	0.35	24.15	30	Pass
Band4	20	1720	QPSK	1	HIGH	23.92	27.41	3.49	13	0.35	24.27	30	Pass
Band4	20	1720	16QAM	100	LOW	21.81	28.91	7.1	13	0.35	22.16	30	Pass
Band4	20	1720	16QAM	50	LOW	21.96	28.58	6.62	13	0.35	22.31	30	Pass
Band4	20	1720	16QAM	50	MID	21.96	28.6	6.64	13	0.35	22.31	30	Pass
Band4	20	1720	16QAM	50	HIGH	21.85	28.26	6.41	13	0.35	22.2	30	Pass
Band4	20	1720	16QAM	1	LOW	23.02	28.67	5.65	13	0.35	23.37	30	Pass

Band4	20	1720	16QAM	1	MID	23.09	27.86	4.77	13	0.35	23.44	30	Pass
Band4	20	1720	16QAM	1	HIGH	23.23	28.43	5.2	13	0.35	23.58	30	Pass
Band4	20	1732.5	QPSK	100	LOW	22.79	28.56	5.77	13	0.35	23.14	30	Pass
Band4	20	1732.5	QPSK	50	LOW	22.84	27.91	5.07	13	0.35	23.19	30	Pass
Band4	20	1732.5	QPSK	50	MID	22.84	27.85	5.01	13	0.35	23.19	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	22.8	27.8	5	13	0.35	23.15	30	Pass
Band4	20	1732.5	QPSK	1	LOW	24.12	28.5	4.38	13	0.35	24.47	30	Pass
Band4	20	1732.5	QPSK	1	MID	23.98	27.21	3.23	13	0.35	24.33	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	24.03	28.37	4.34	13	0.35	24.38	30	Pass
Band4	20	1732.5	16QAM	100	LOW	21.89	28.45	6.56	13	0.35	22.24	30	Pass
Band4	20	1732.5	16QAM	50	LOW	22.07	27.85	5.78	13	0.35	22.42	30	Pass
Band4	20	1732.5	16QAM	50	MID	22.08	27.91	5.83	13	0.35	22.43	30	Pass
Band4	20	1732.5	16QAM	50	HIGH	21.92	27.78	5.86	13	0.35	22.27	30	Pass
Band4	20	1732.5	16QAM	1	LOW	23.04	27.9	4.86	13	0.35	23.39	30	Pass
Band4	20	1732.5	16QAM	1	MID	22.94	27.3	4.36	13	0.35	23.29	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	22.96	27.65	4.69	13	0.35	23.31	30	Pass
Band4	20	1745	QPSK	100	LOW	22.69	28.69	6	13	0.35	23.04	30	Pass
Band4	20	1745	QPSK	50	LOW	22.89	27.97	5.08	13	0.35	23.24	30	Pass
Band4	20	1745	QPSK	50	MID	22.78	27.95	5.17	13	0.35	23.13	30	Pass
Band4	20	1745	QPSK	50	HIGH	22.75	28.39	5.64	13	0.35	23.1	30	Pass
Band4	20	1745	QPSK	1	LOW	23.92	28.4	4.48	13	0.35	24.27	30	Pass
Band4	20	1745	QPSK	1	MID	23.95	27.71	3.76	13	0.35	24.3	30	Pass
Band4	20	1745	QPSK	1	HIGH	23.93	28.34	4.41	13	0.35	24.28	30	Pass
Band4	20	1745	16QAM	100	LOW	21.99	28.82	6.83	13	0.35	22.34	30	Pass
Band4	20	1745	16QAM	50	LOW	21.84	27.92	6.08	13	0.35	22.19	30	Pass
Band4	20	1745	16QAM	50	MID	21.86	27.98	6.12	13	0.35	22.21	30	Pass
Band4	20	1745	16QAM	50	HIGH	21.71	28.41	6.7	13	0.35	22.06	30	Pass
Band4	20	1745	16QAM	1	LOW	23.59	28.17	4.58	13	0.35	23.94	30	Pass
Band4	20	1745	16QAM	1	MID	23.56	27.7	4.14	13	0.35	23.91	30	Pass
Band4	20	1745	16QAM	1	HIGH	23.65	28.93	5.28	13	0.35	24	30	Pass