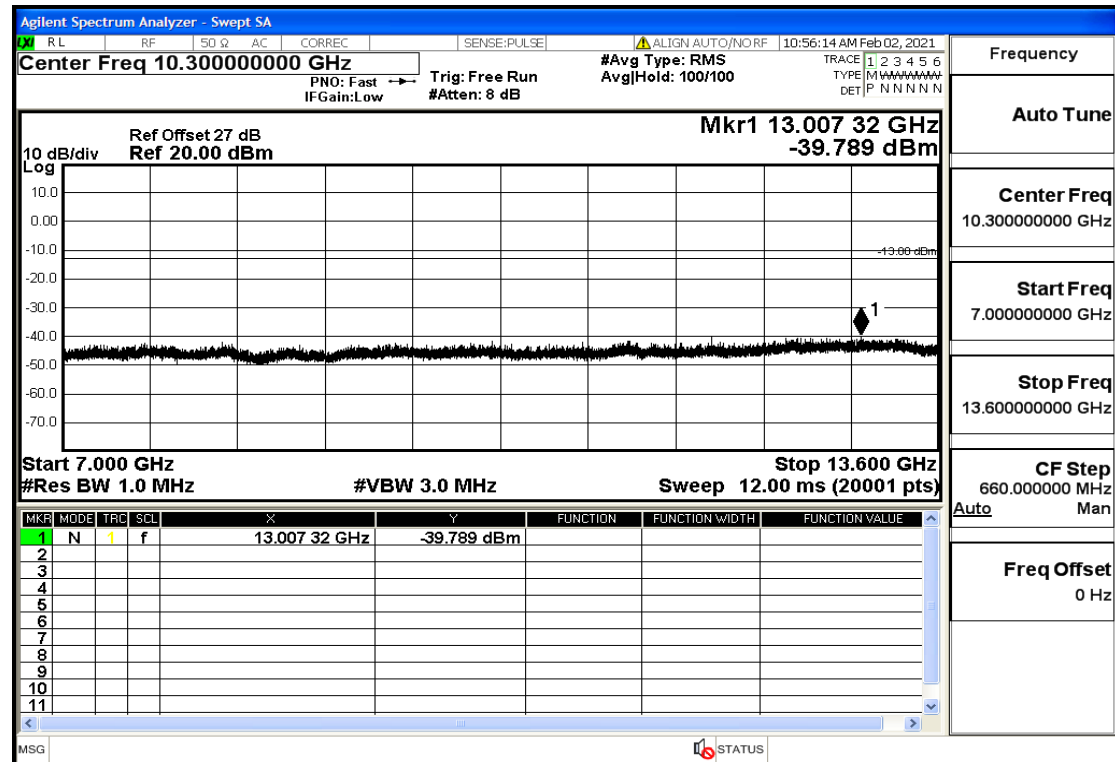
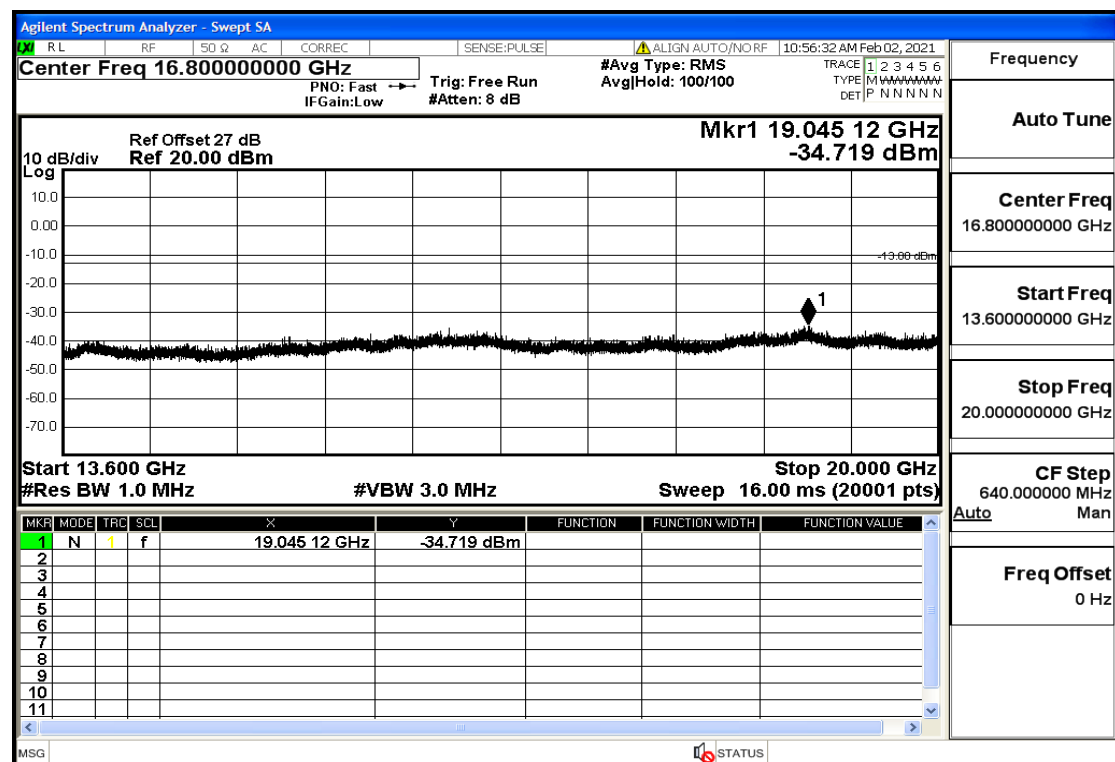


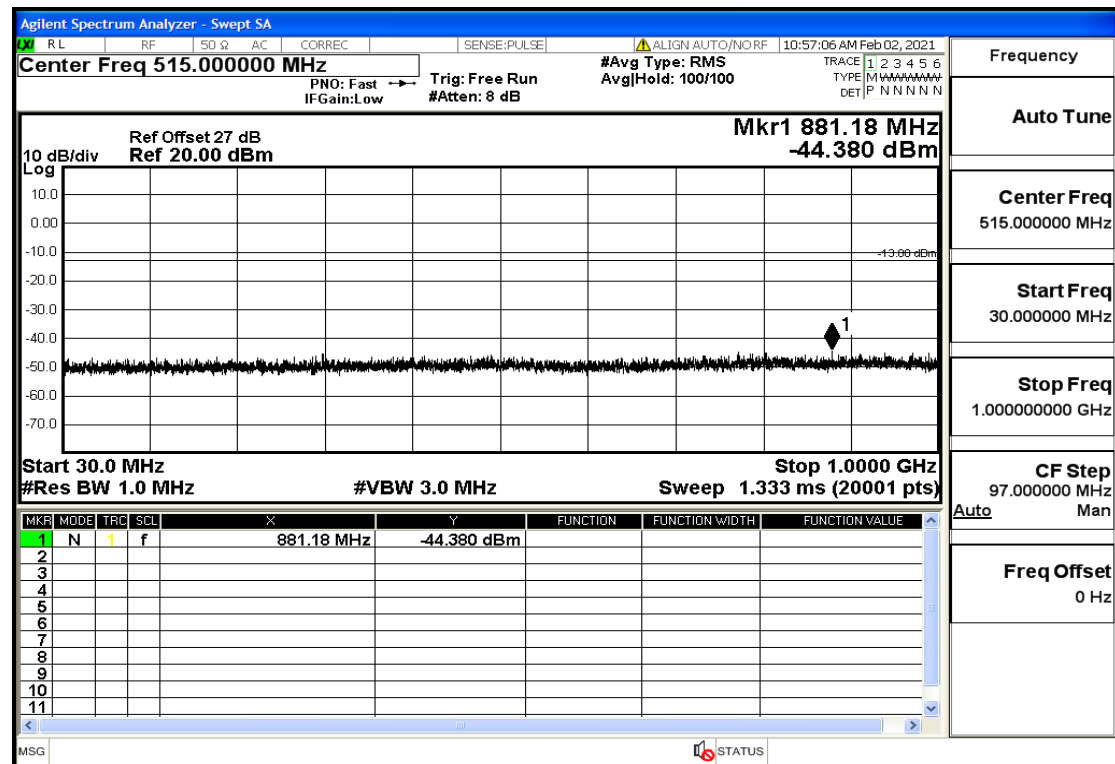
OB4-3-1753.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



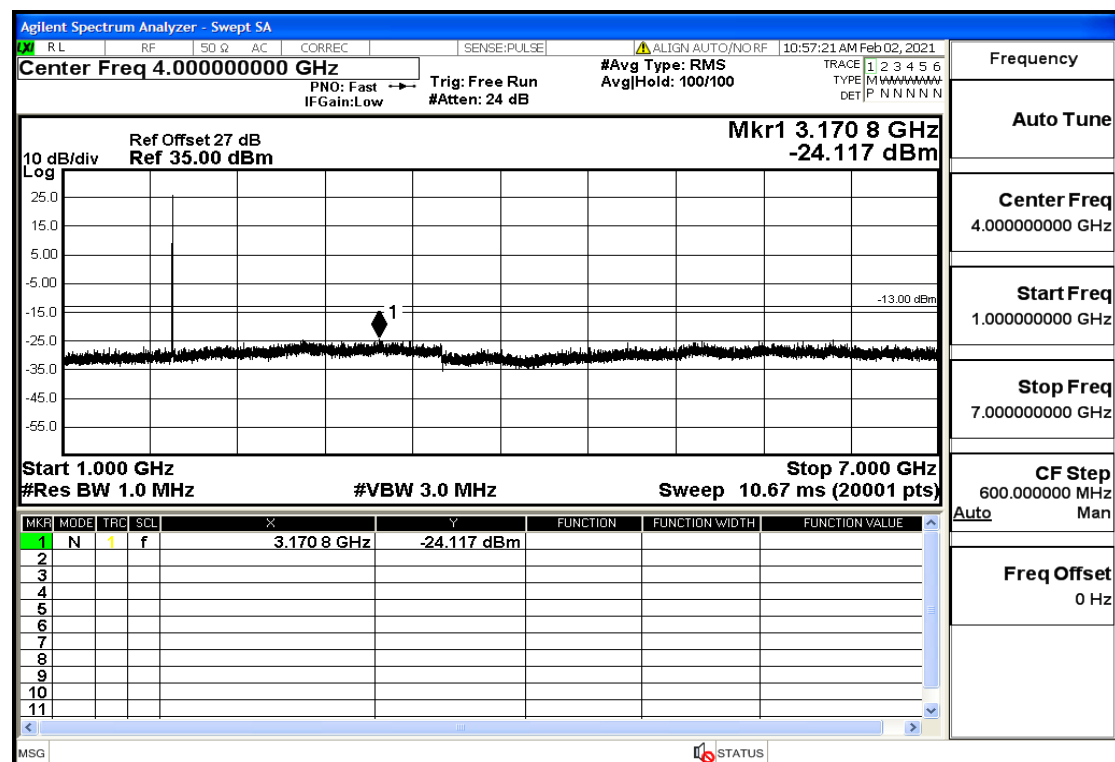
OB4-3-1753.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



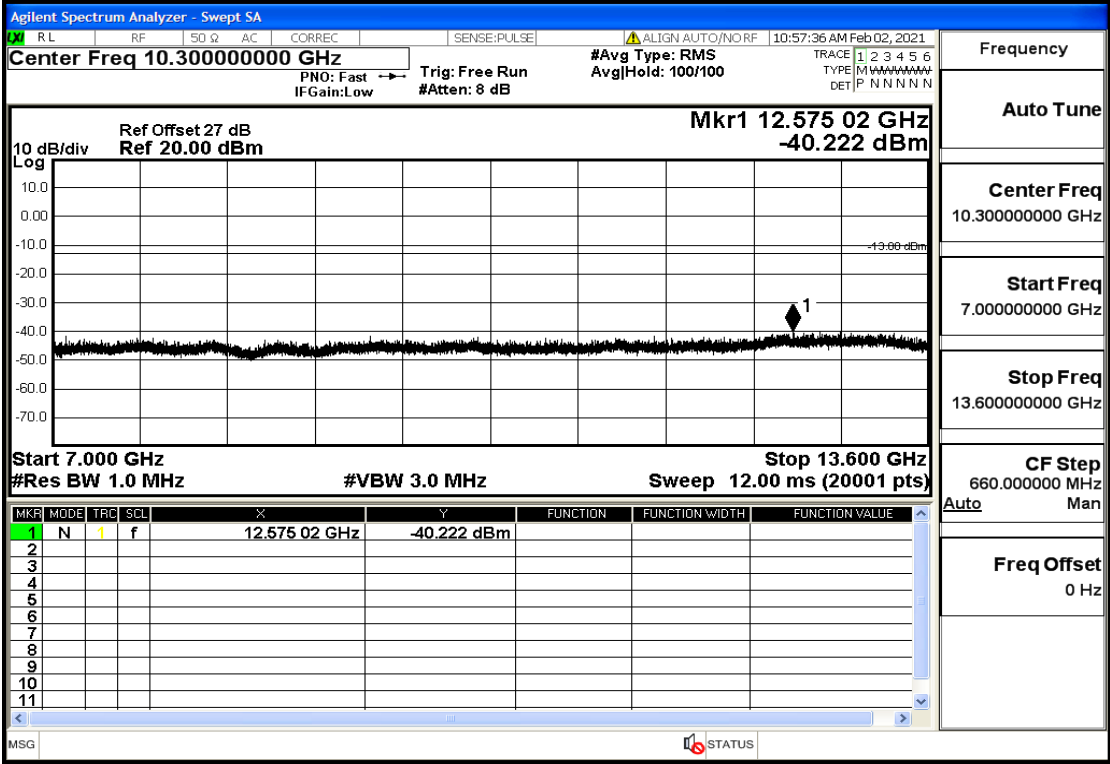
OB4-3-1753.5-QPSK-1#HIGH@30mHz-1GHz@Pass



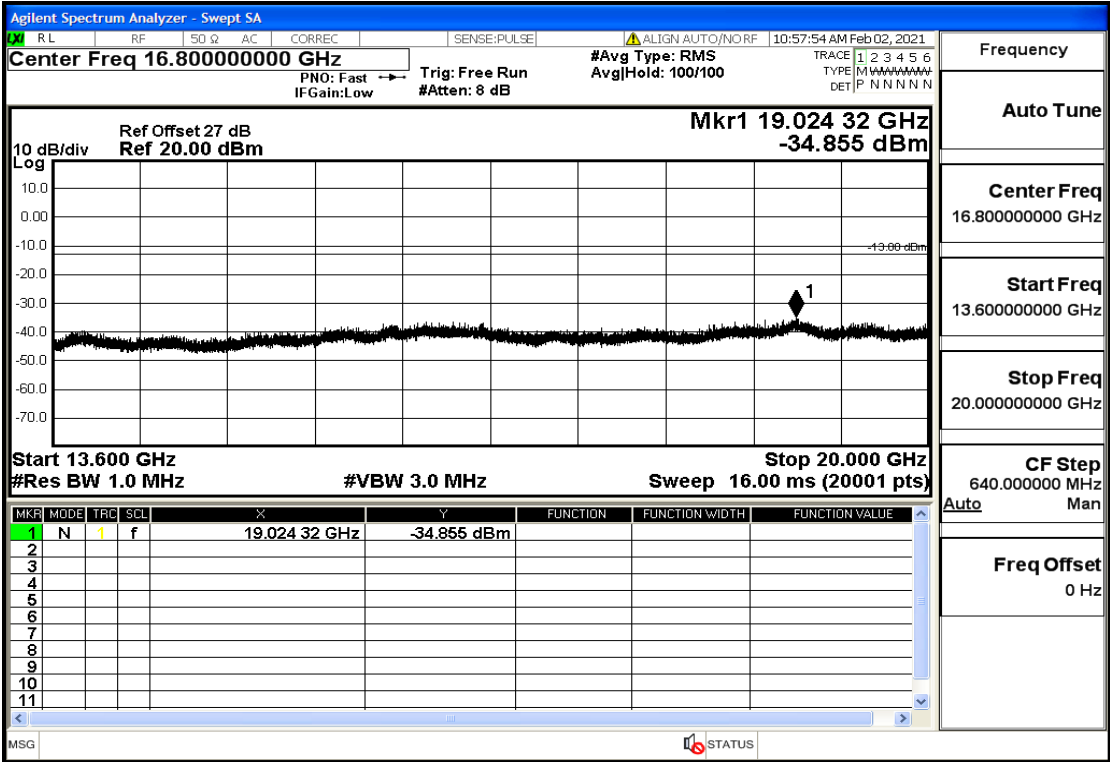
OB4-3-1753.5-QPSK-1#HIGH@1GHz-7GHz@Pass



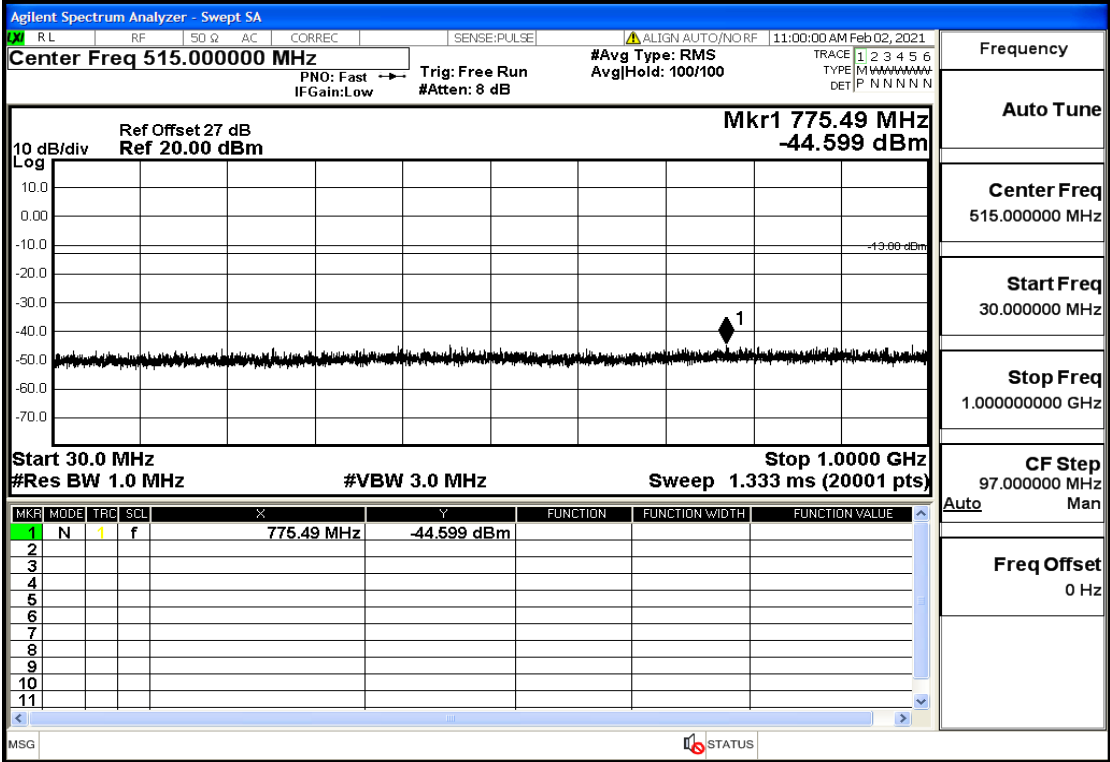
OB4-3-1753.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



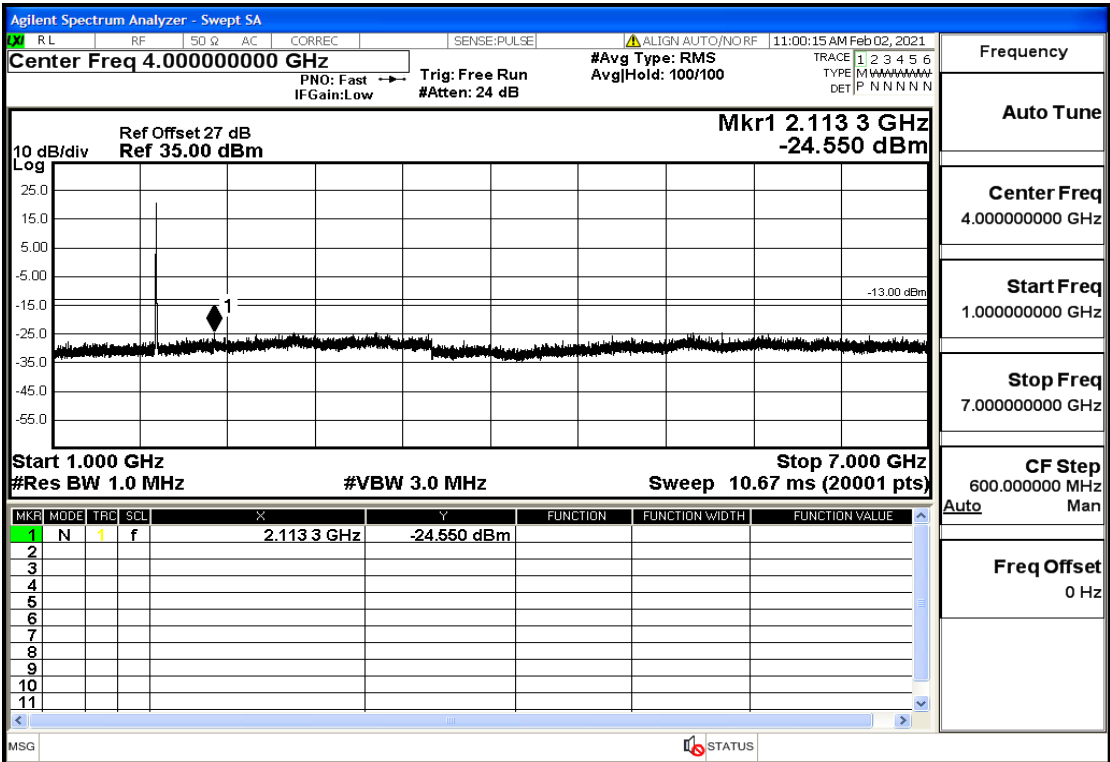
OB4-3-1753.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



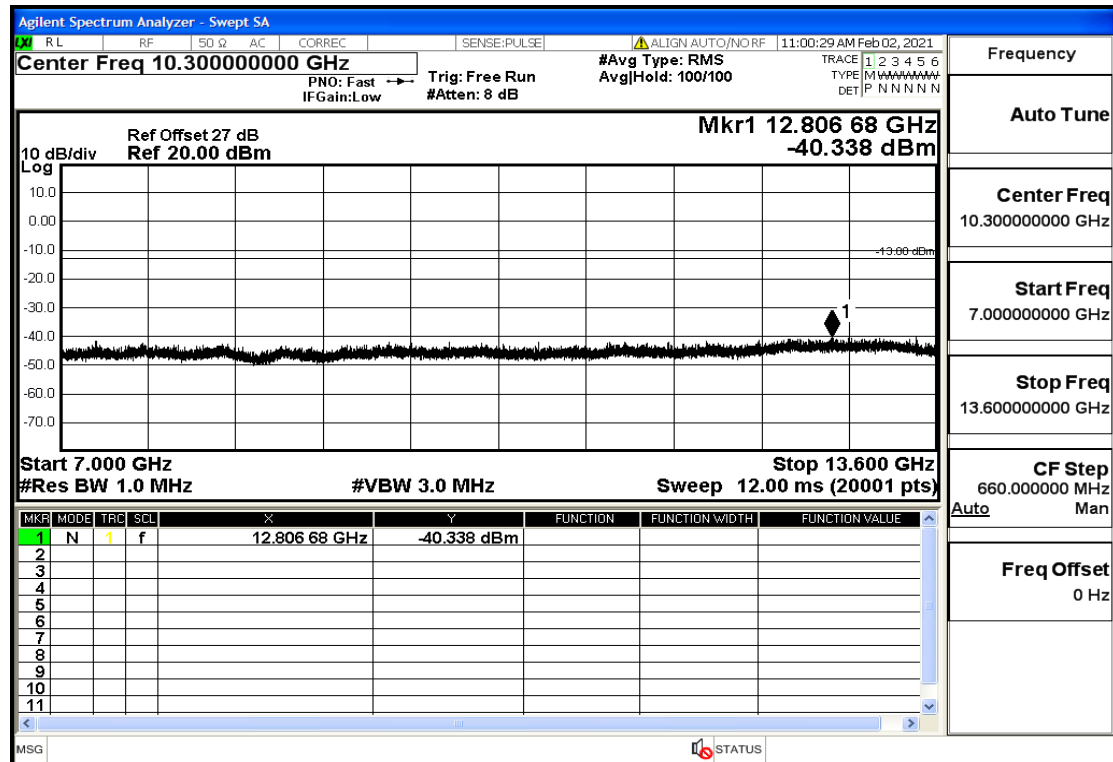
OB4-5-1712.5-QPSK-25#LOW@30mHz-1GHz@Pass



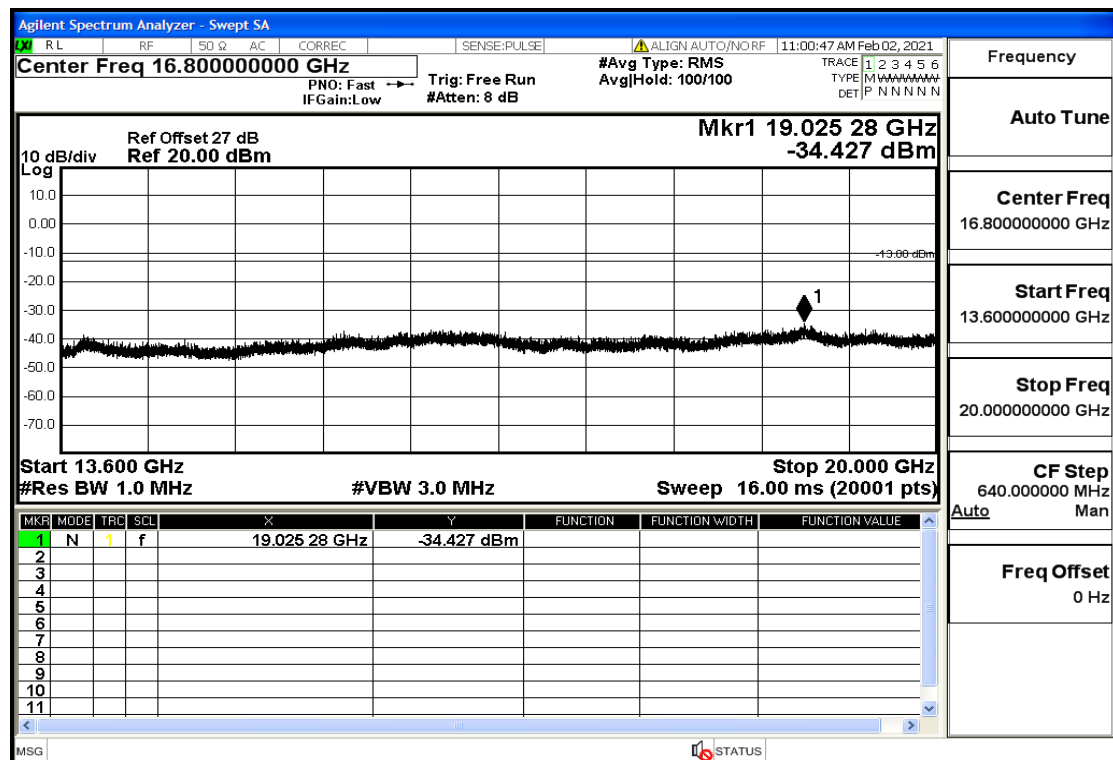
OB4-5-1712.5-QPSK-25#LOW@1GHz-7GHz@Pass



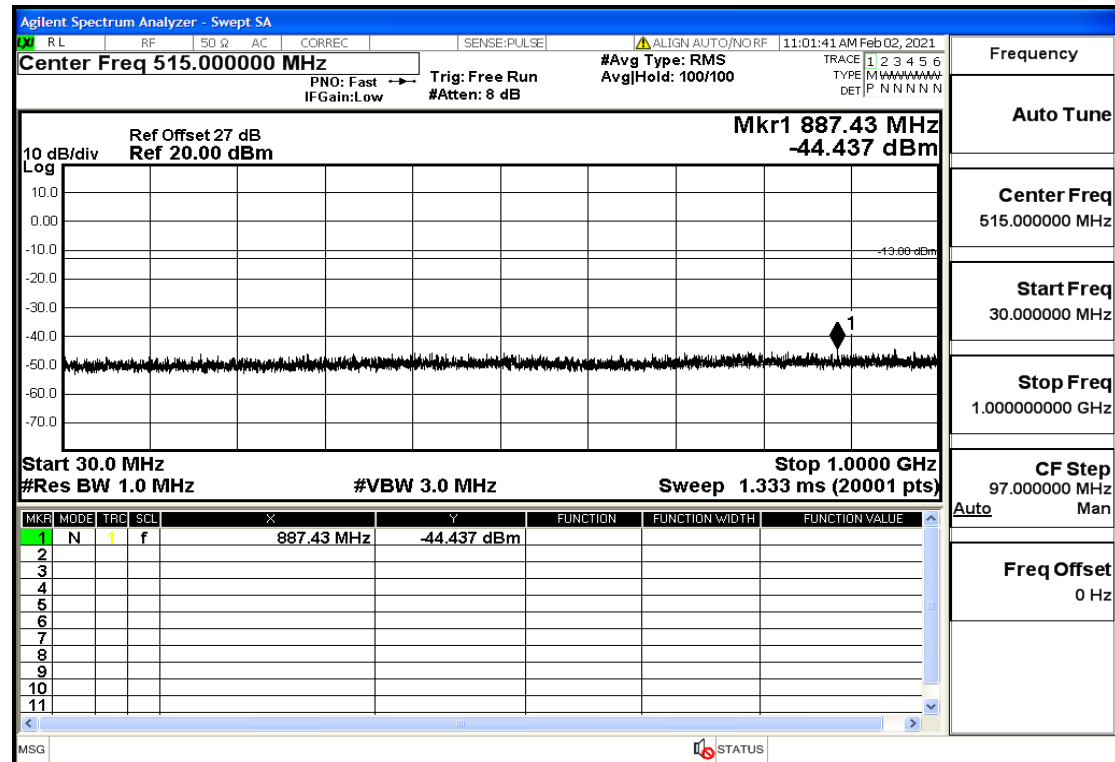
OB4-5-1712.5-QPSK-25#LOW@7GHz-13.6GHz@Pass



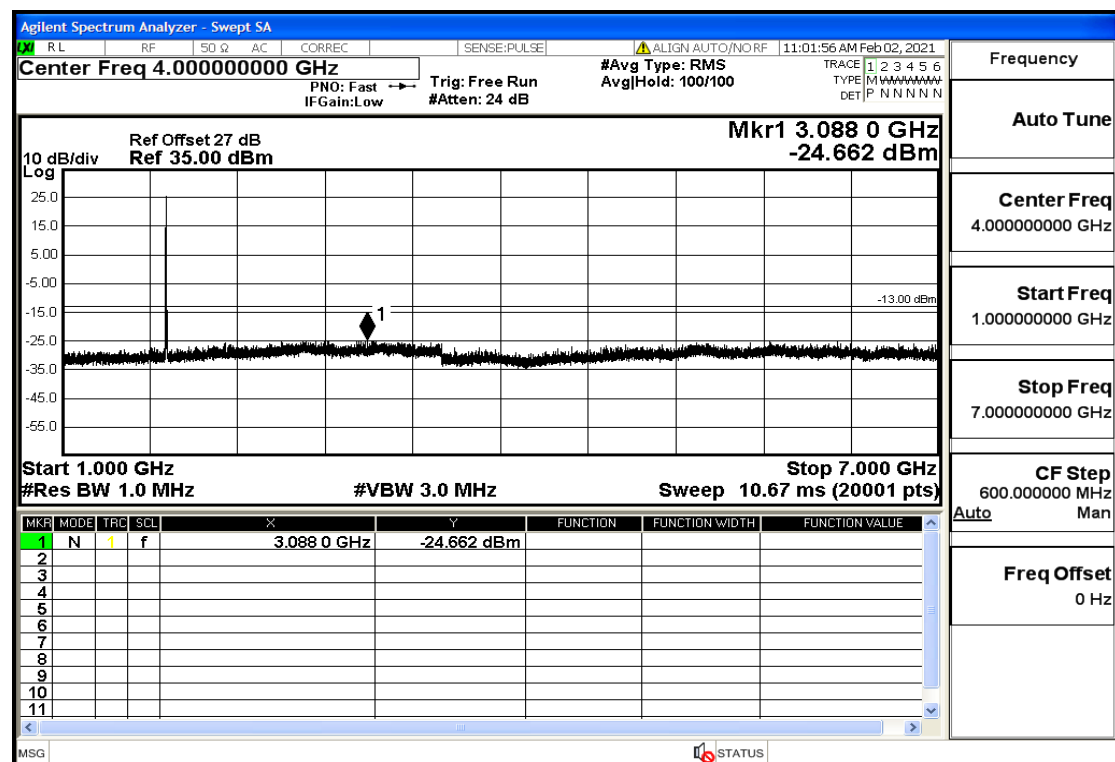
OB4-5-1712.5-QPSK-25#LOW@13.6GHz-20GHz@Pass



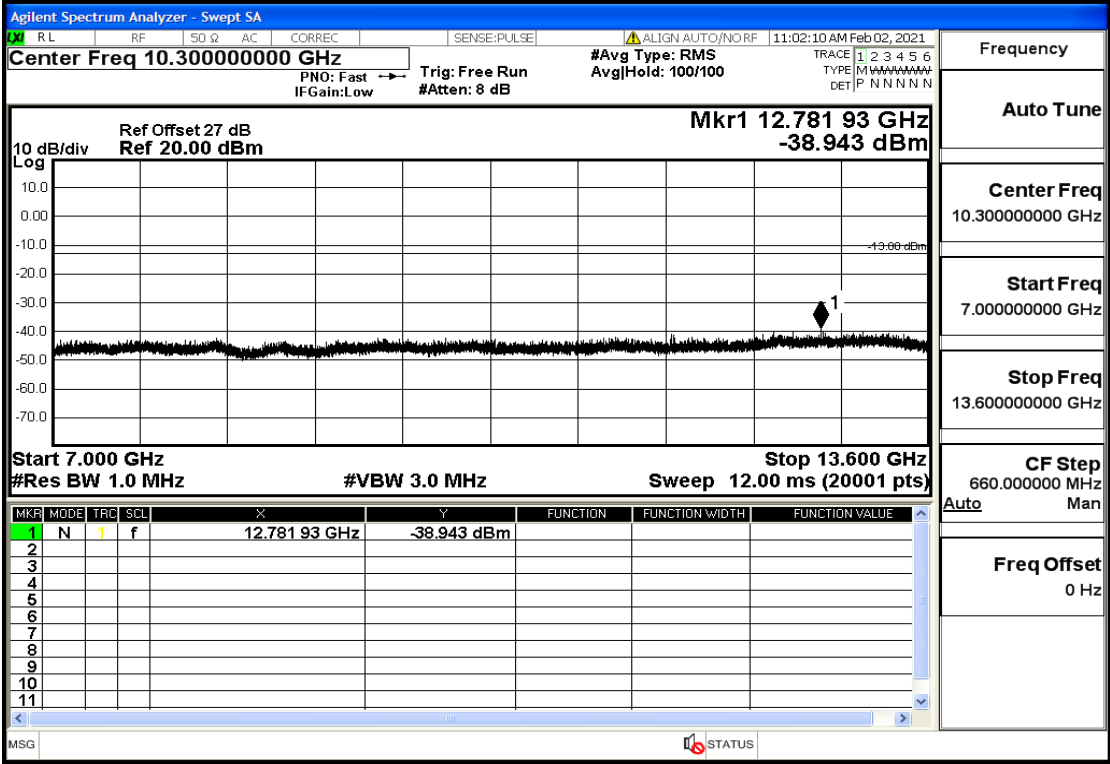
OB4-5-1712.5-QPSK-1#LOW@30mHz-1GHz@Pass



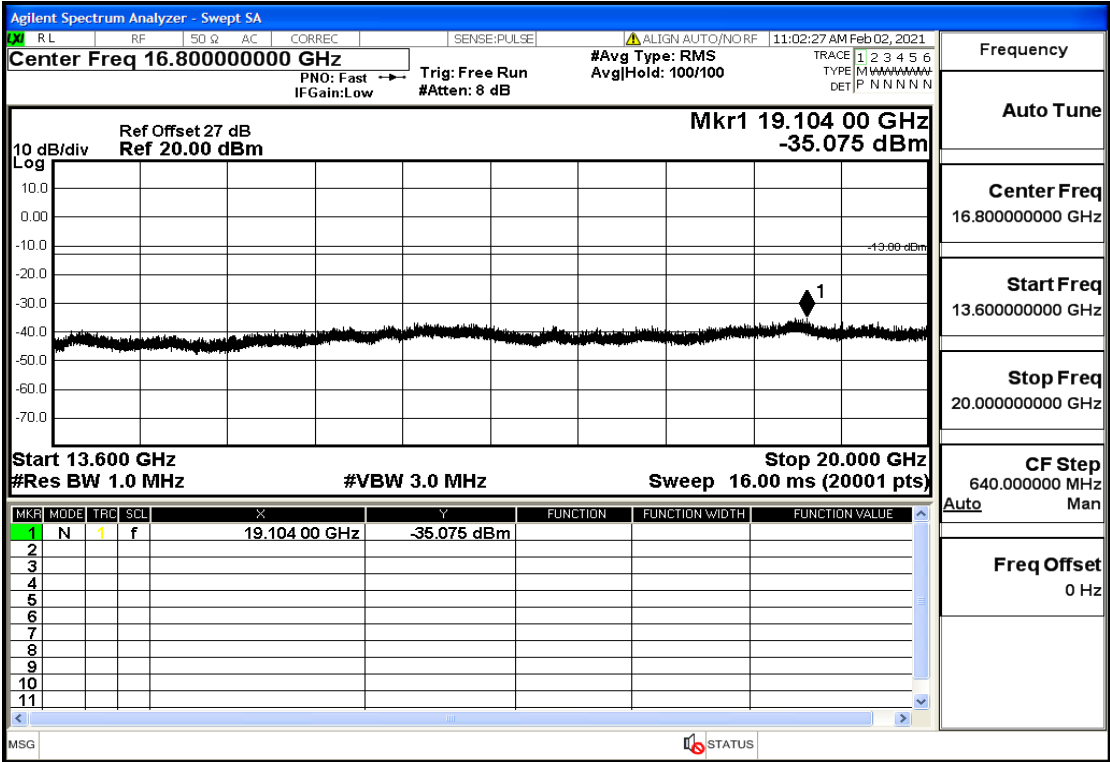
OB4-5-1712.5-QPSK-1#LOW@1GHz-7GHz@Pass



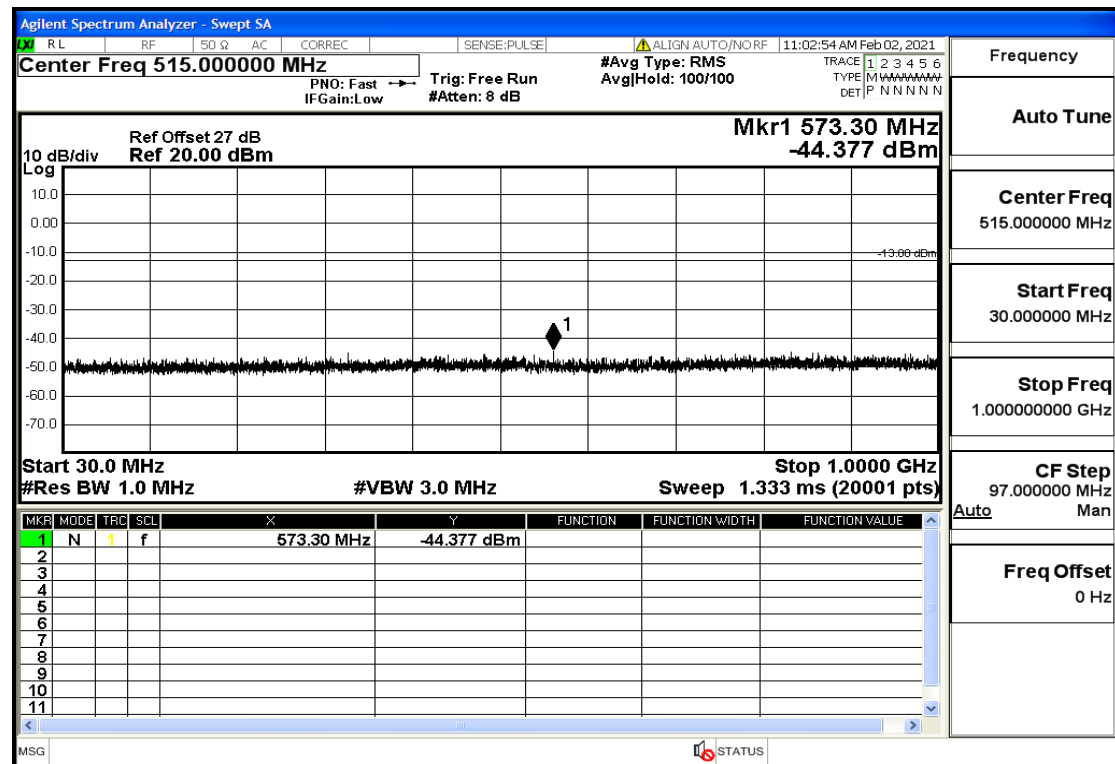
OB4-5-1712.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



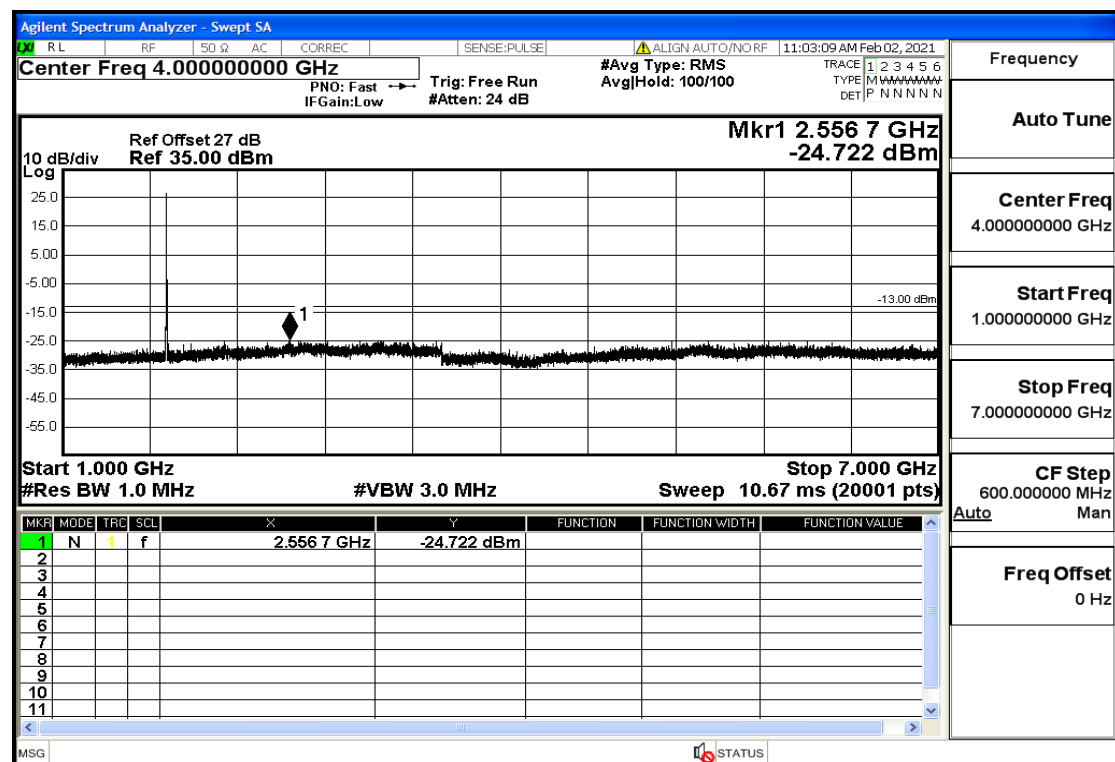
OB4-5-1712.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



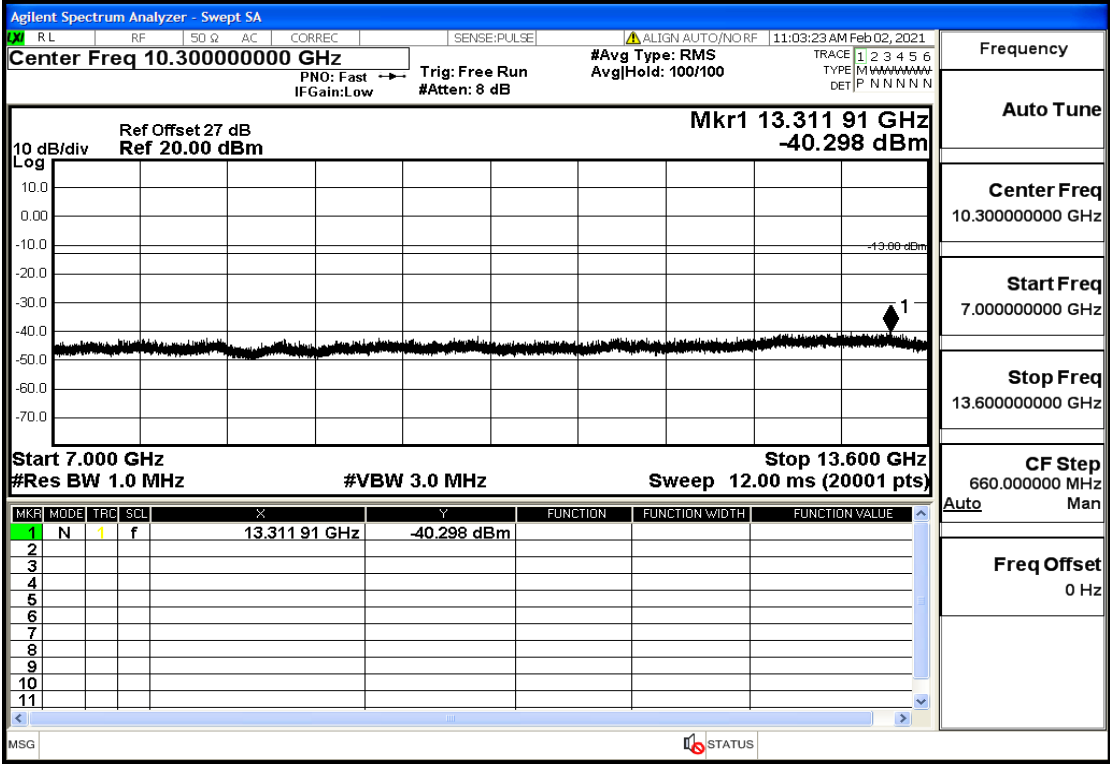
OB4-5-1712.5-QPSK-1#HIGH@30mHz-1GHz@Pass



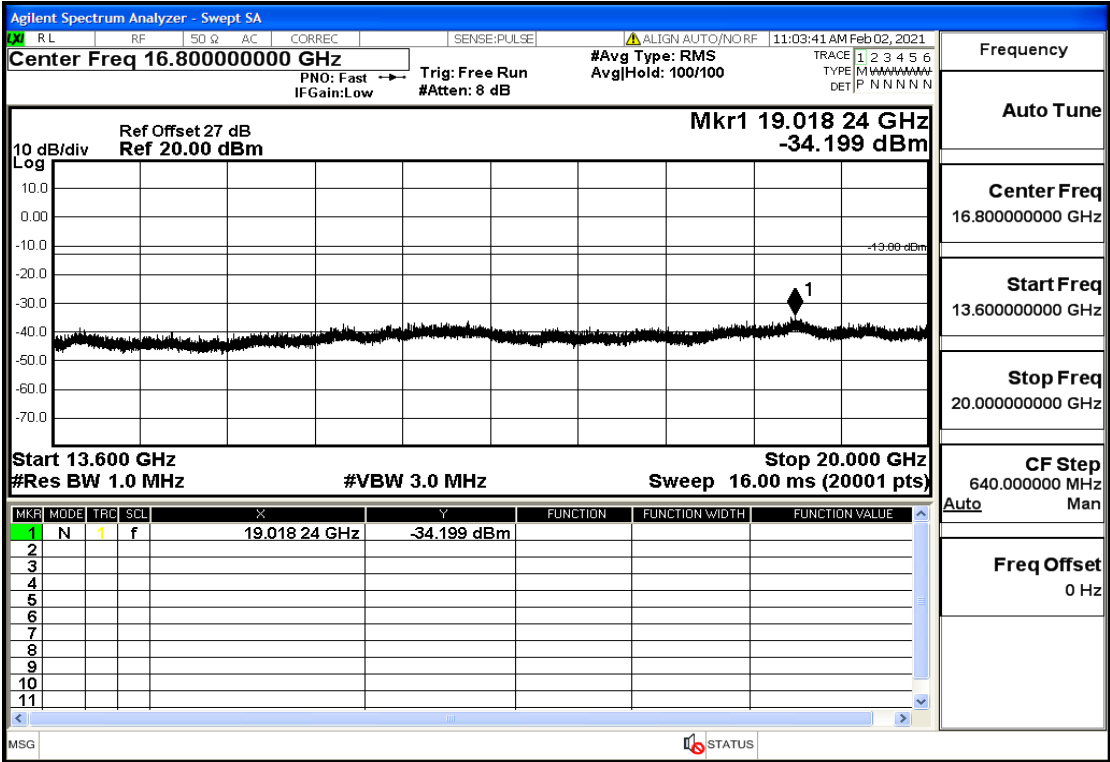
OB4-5-1712.5-QPSK-1#HIGH@1GHz-7GHz@Pass



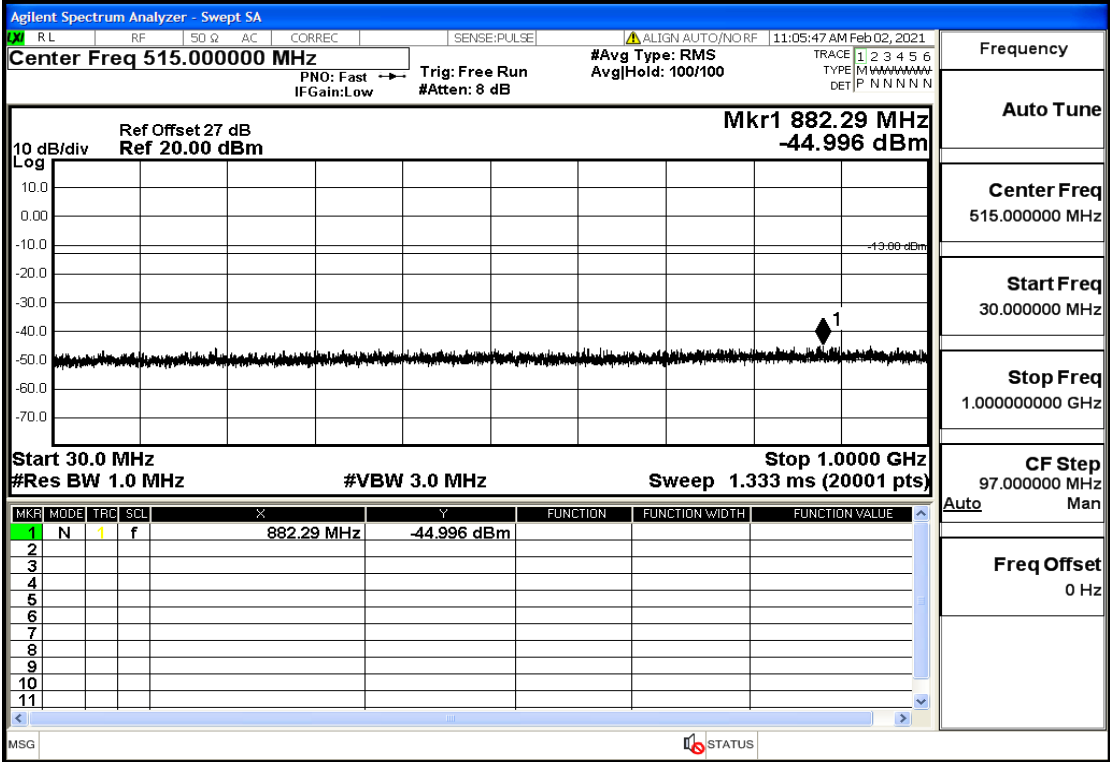
OB4-5-1712.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



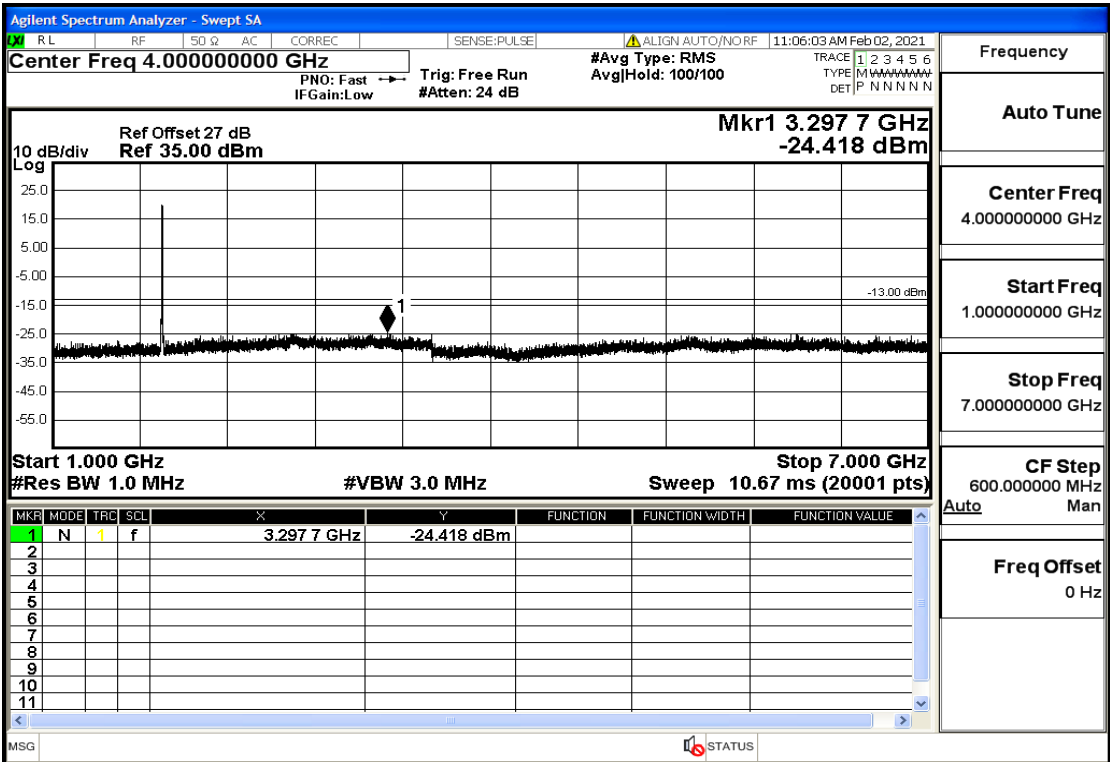
OB4-5-1712.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



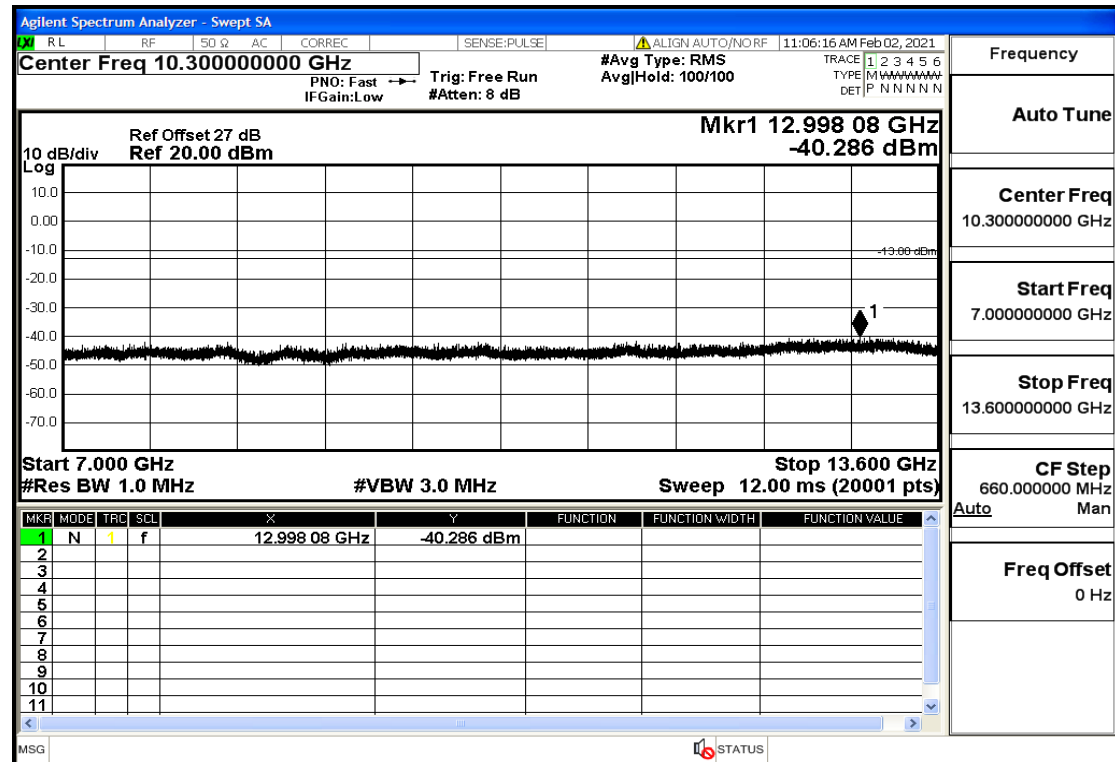
OB4-5-1752.5-QPSK-25#LOW@30mHz-1GHz@Pass



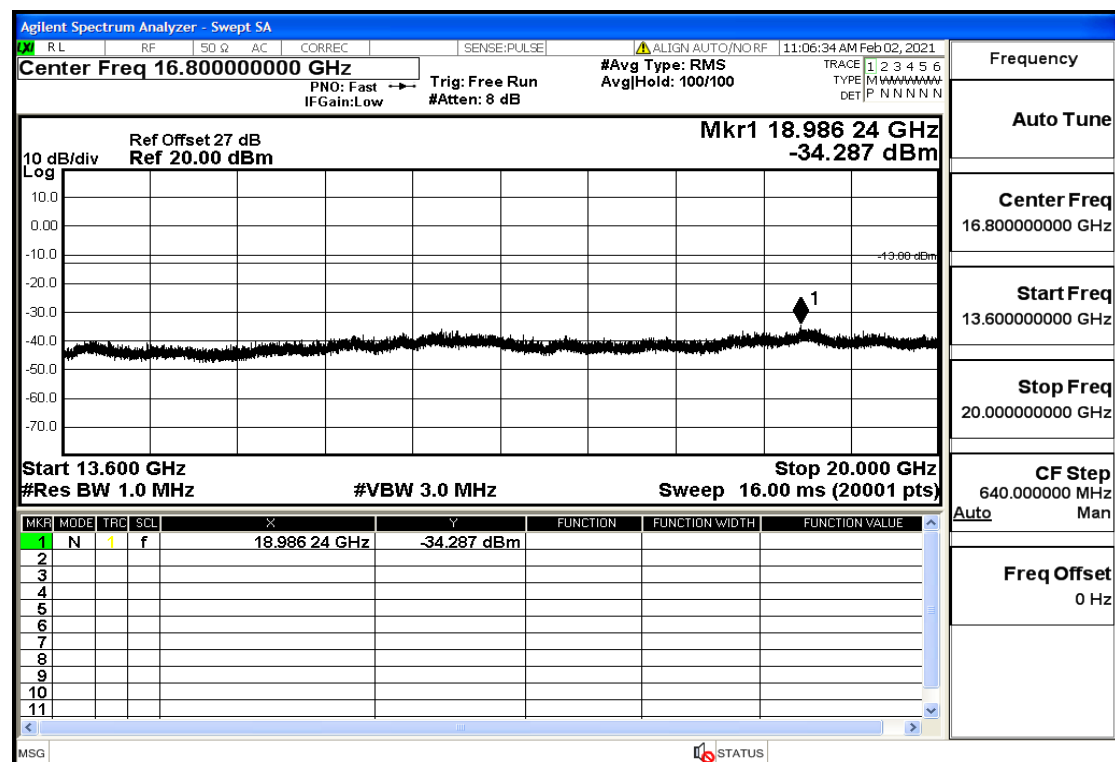
OB4-5-1752.5-QPSK-25#LOW@1GHz-7GHz@Pass



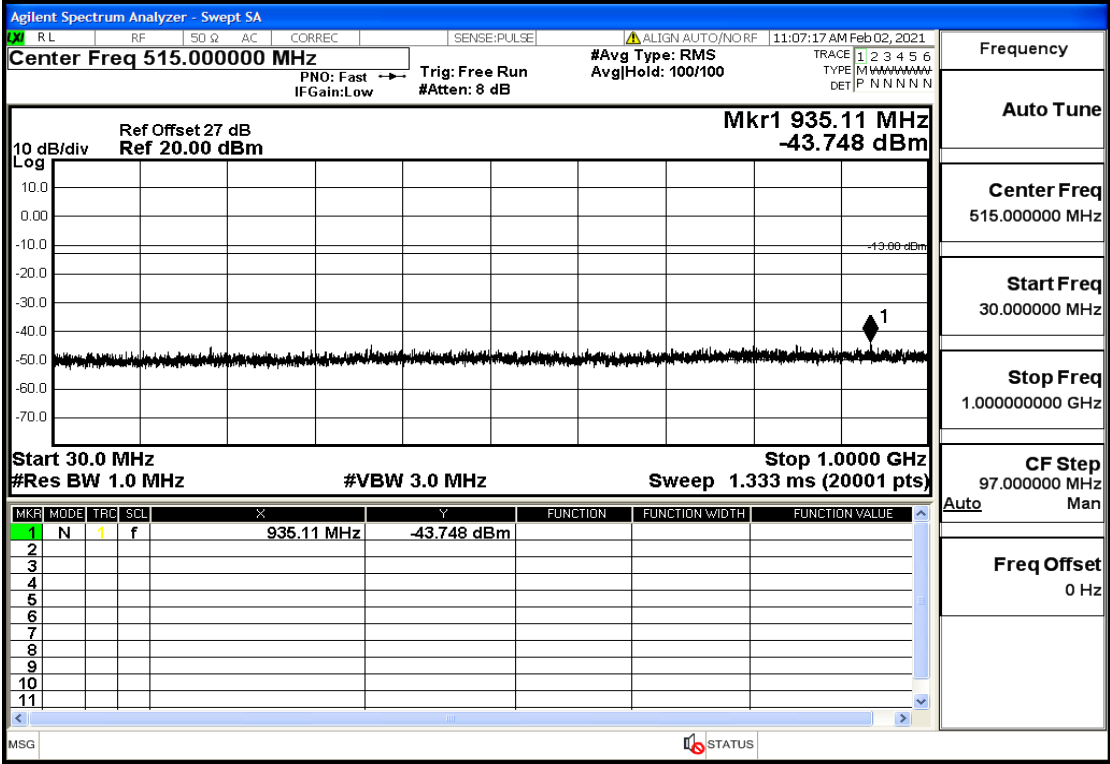
OB4-5-1752.5-QPSK-25#LOW@7GHz-13.6GHz@Pass



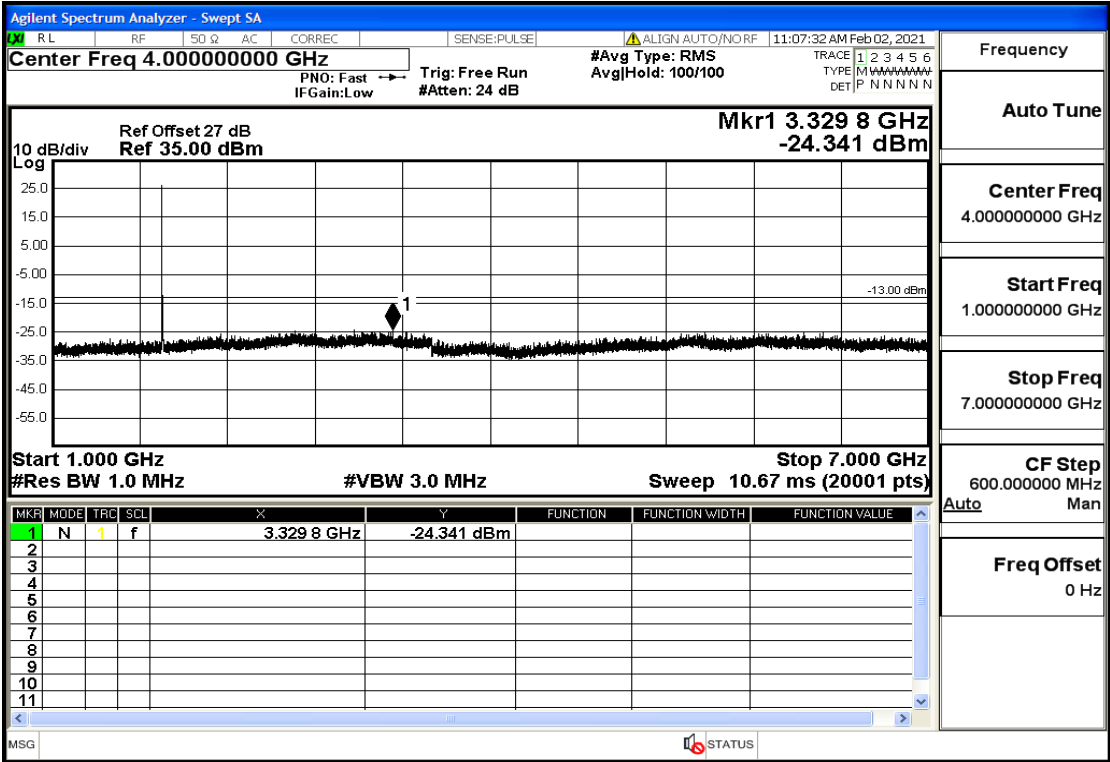
OB4-5-1752.5-QPSK-25#LOW@13.6GHz-20GHz@Pass



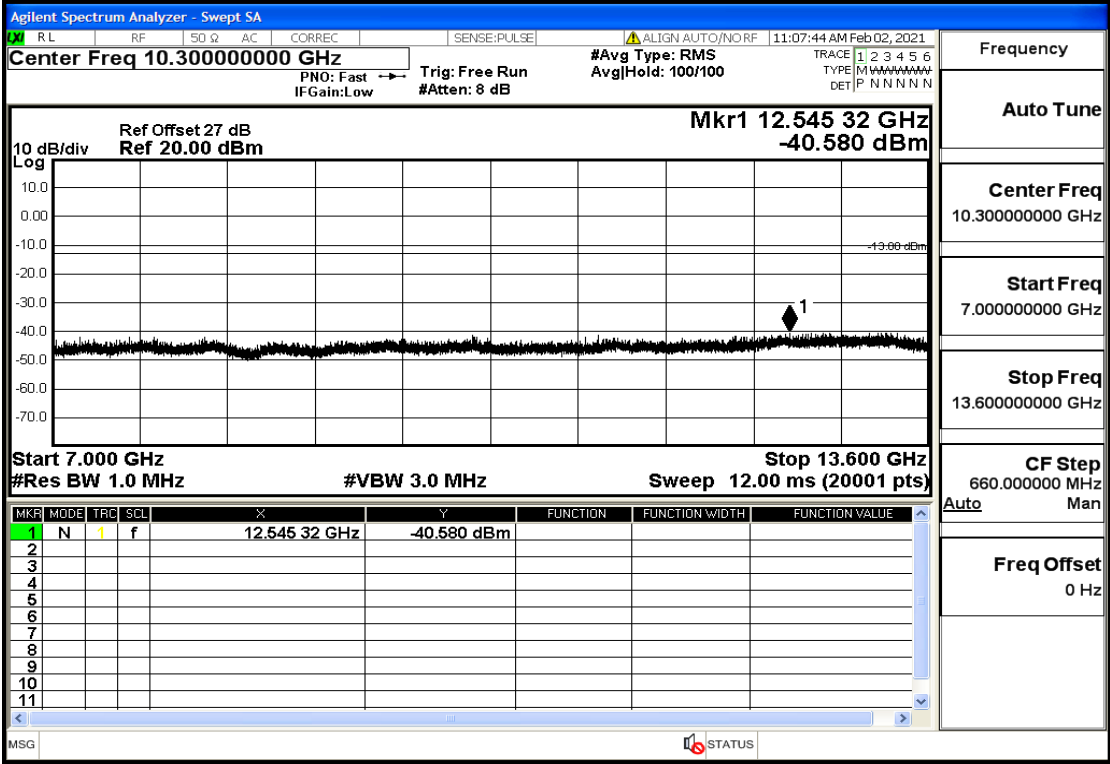
OB4-5-1752.5-QPSK-1#LOW@30mHz-1GHz@Pass



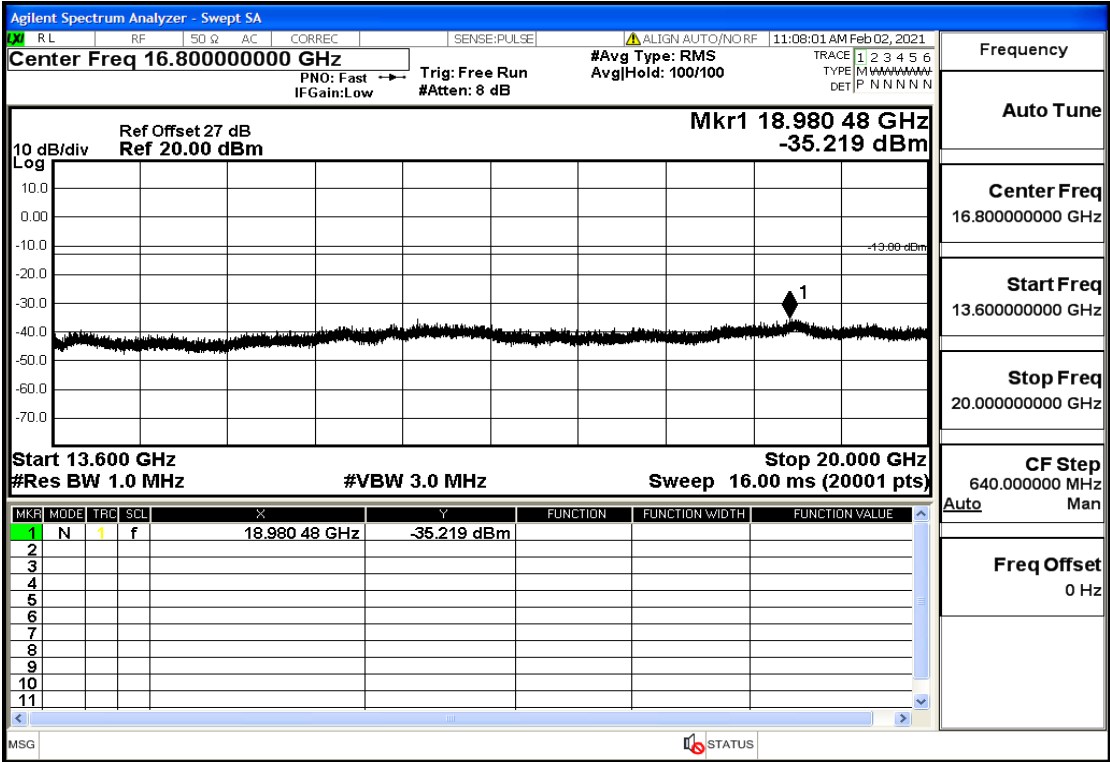
OB4-5-1752.5-QPSK-1#LOW@1GHz-7GHz@Pass



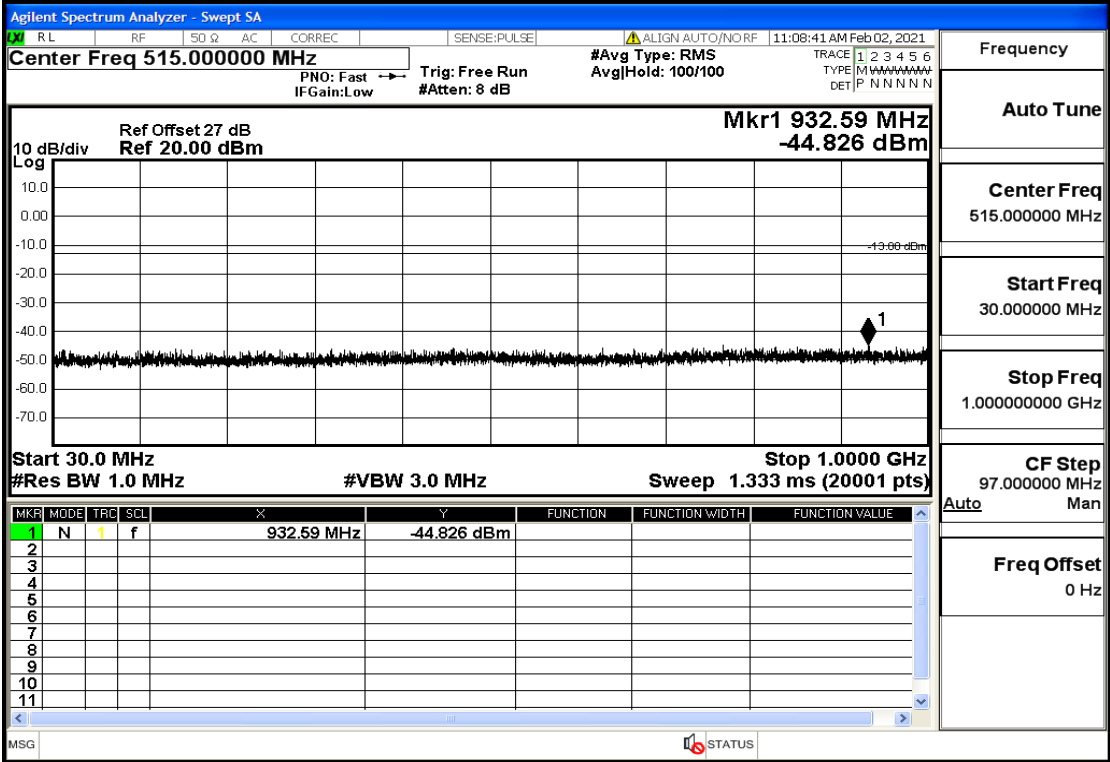
OB4-5-1752.5-QPSK-1#LOW@7GHz-13.6GHz@Pass



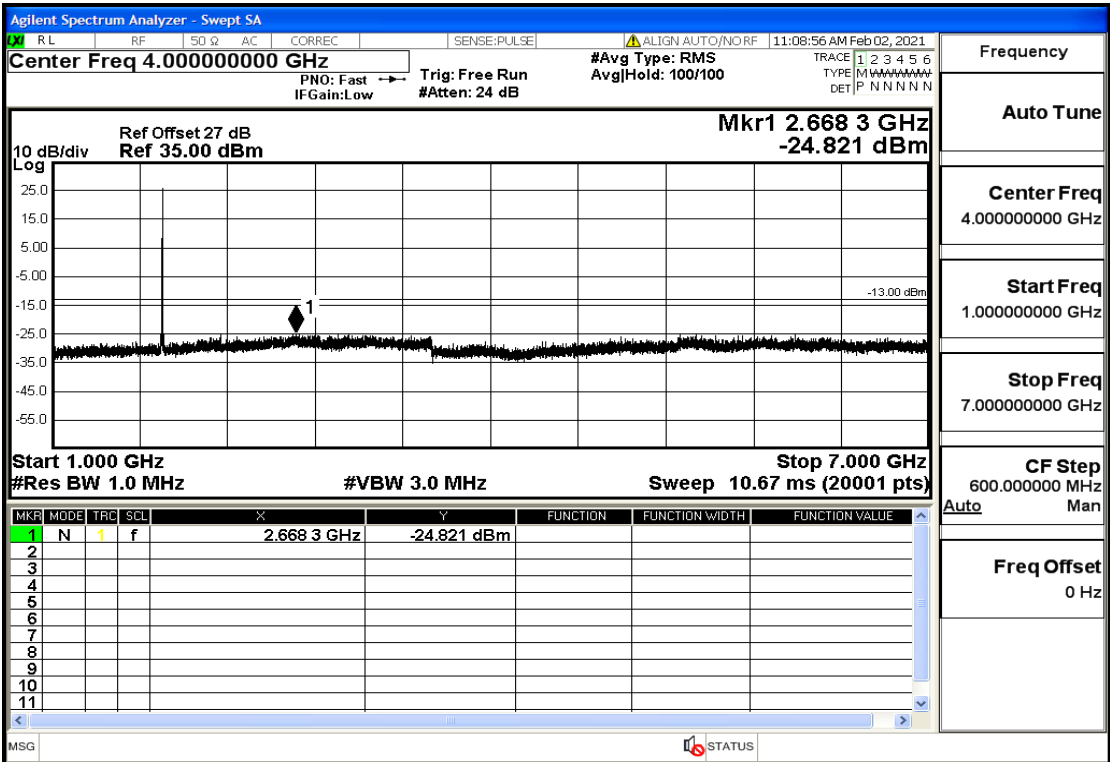
OB4-5-1752.5-QPSK-1#LOW@13.6GHz-20GHz@Pass



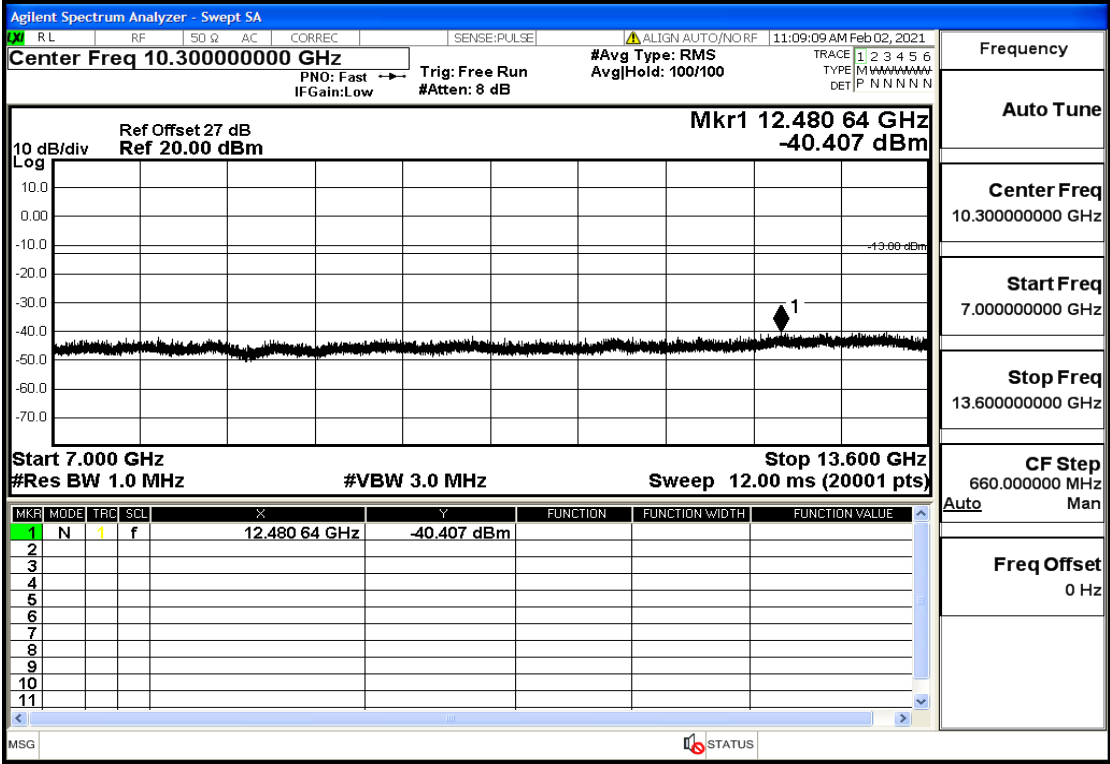
OB4-5-1752.5-QPSK-1#HIGH@30mHz-1GHz@Pass



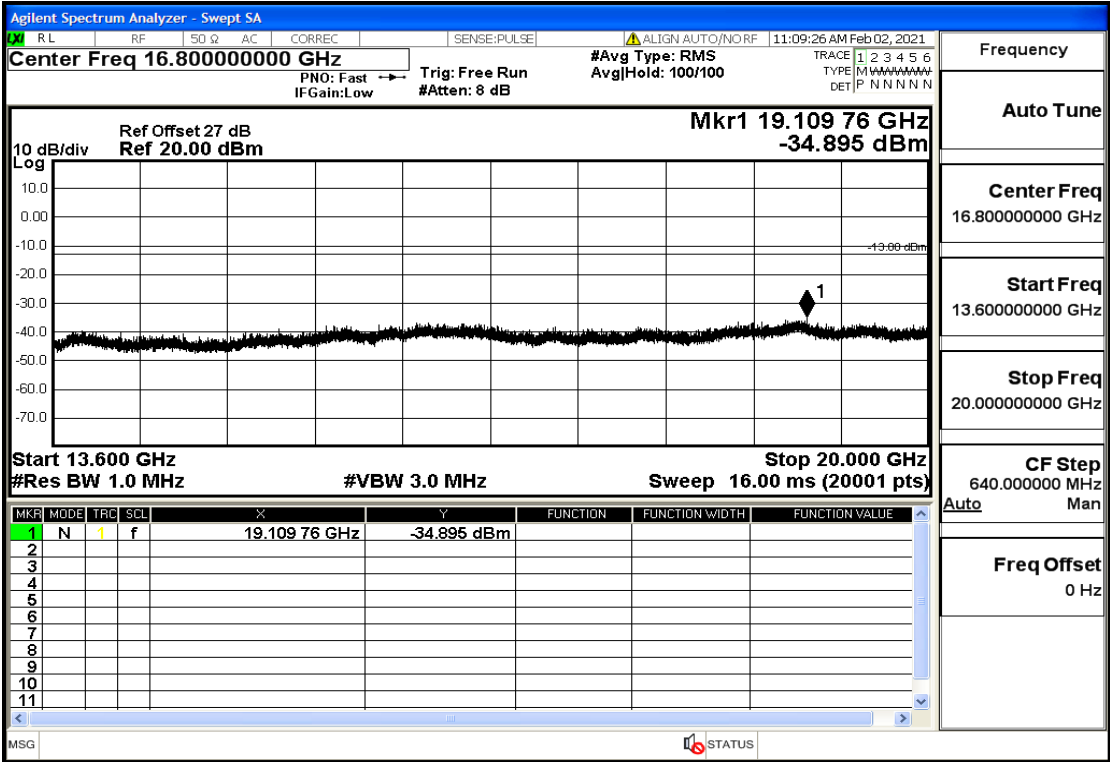
OB4-5-1752.5-QPSK-1#HIGH@1GHz-7GHz@Pass



OB4-5-1752.5-QPSK-1#HIGH@7GHz-13.6GHz@Pass



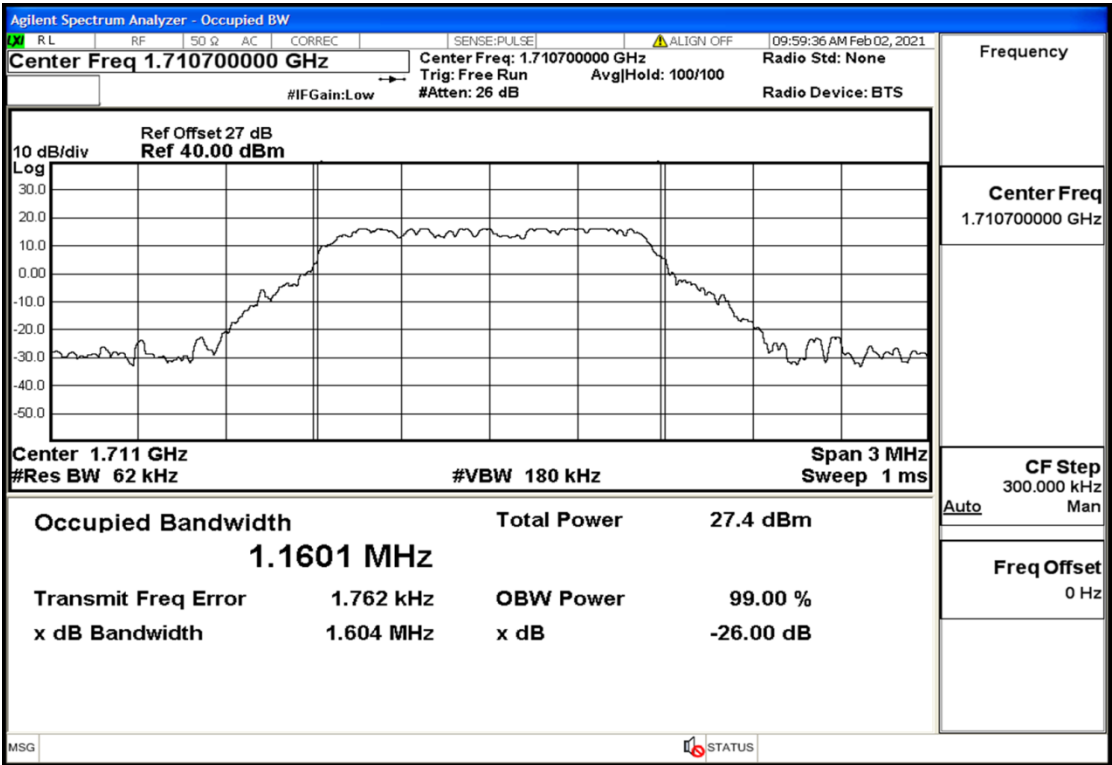
OB4-5-1752.5-QPSK-1#HIGH@13.6GHz-20GHz@Pass



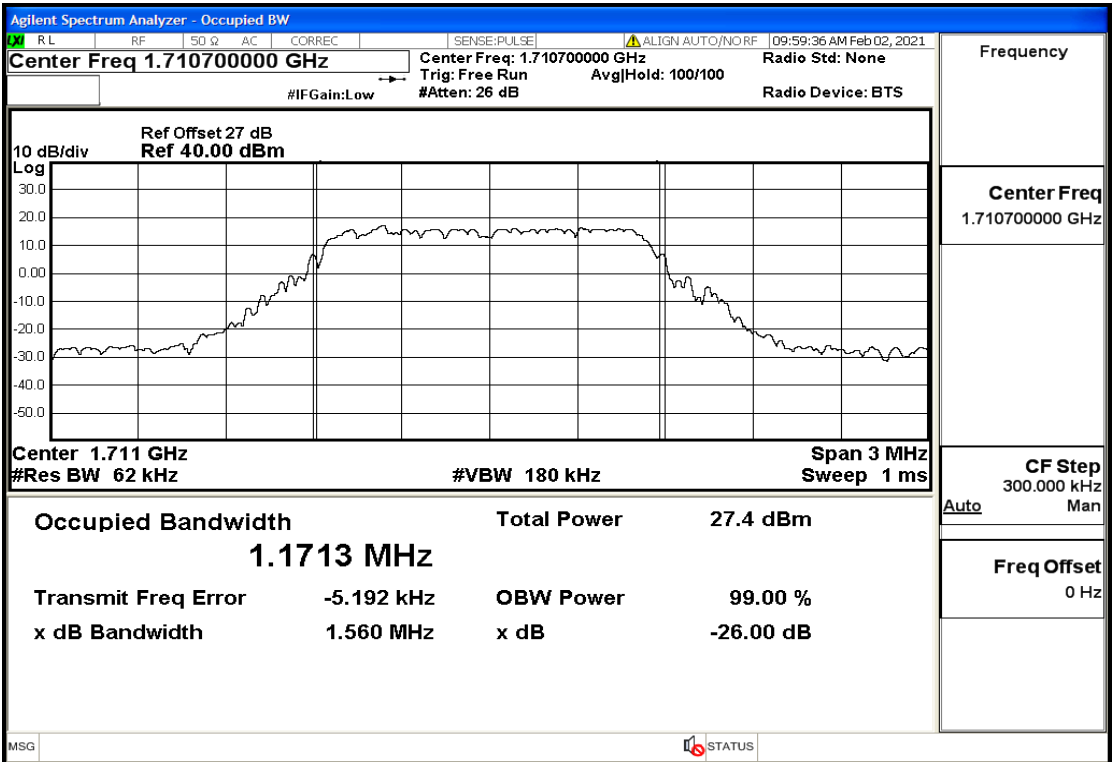
Emission bandwidth and OBW

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	1160.1	1604	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1171.3	1560	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1138.1	1504	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1145.6	1535	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1144	1520	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1152.7	1538	No limit
Band4	3	1711.5	QPSK	15	LOW	2766.5	3299	No limit
Band4	3	1711.5	16QAM	15	LOW	2798.6	3219	No limit
Band4	3	1732.5	QPSK	15	LOW	2777.9	3260	No limit
Band4	3	1732.5	16QAM	15	LOW	2791.7	3315	No limit
Band4	3	1753.5	QPSK	15	LOW	2775.8	3237	No limit
Band4	3	1753.5	16QAM	15	LOW	2781.8	3274	No limit
Band4	5	1712.5	QPSK	25	LOW	4604.8	5299	No limit
Band4	5	1712.5	16QAM	25	LOW	4594.4	5250	No limit
Band4	5	1752.5	QPSK	25	LOW	4579.4	5341	No limit
Band4	5	1752.5	16QAM	25	LOW	4577.5	5410	No limit

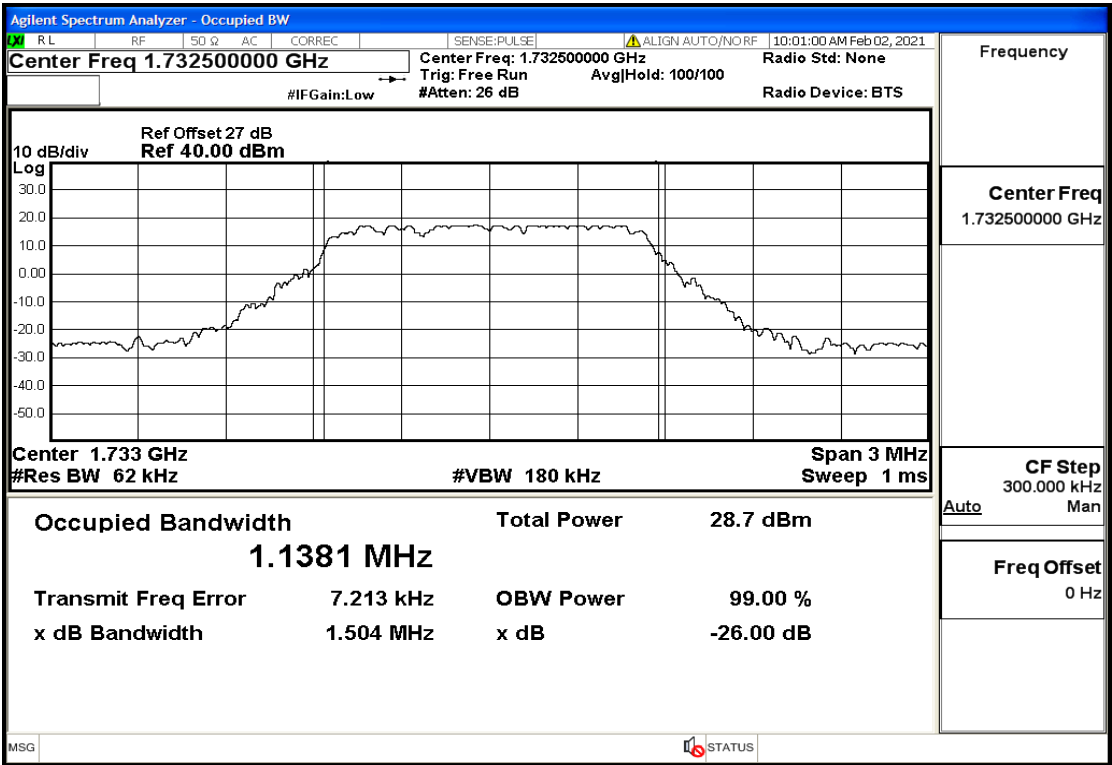
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



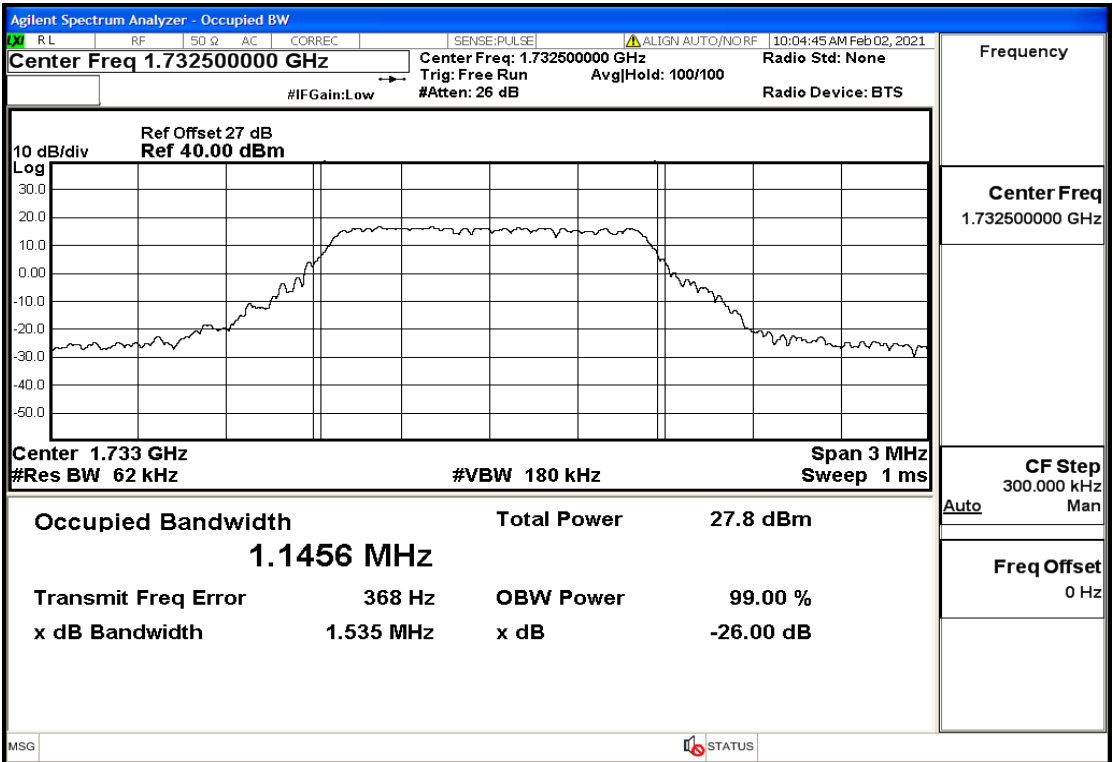
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



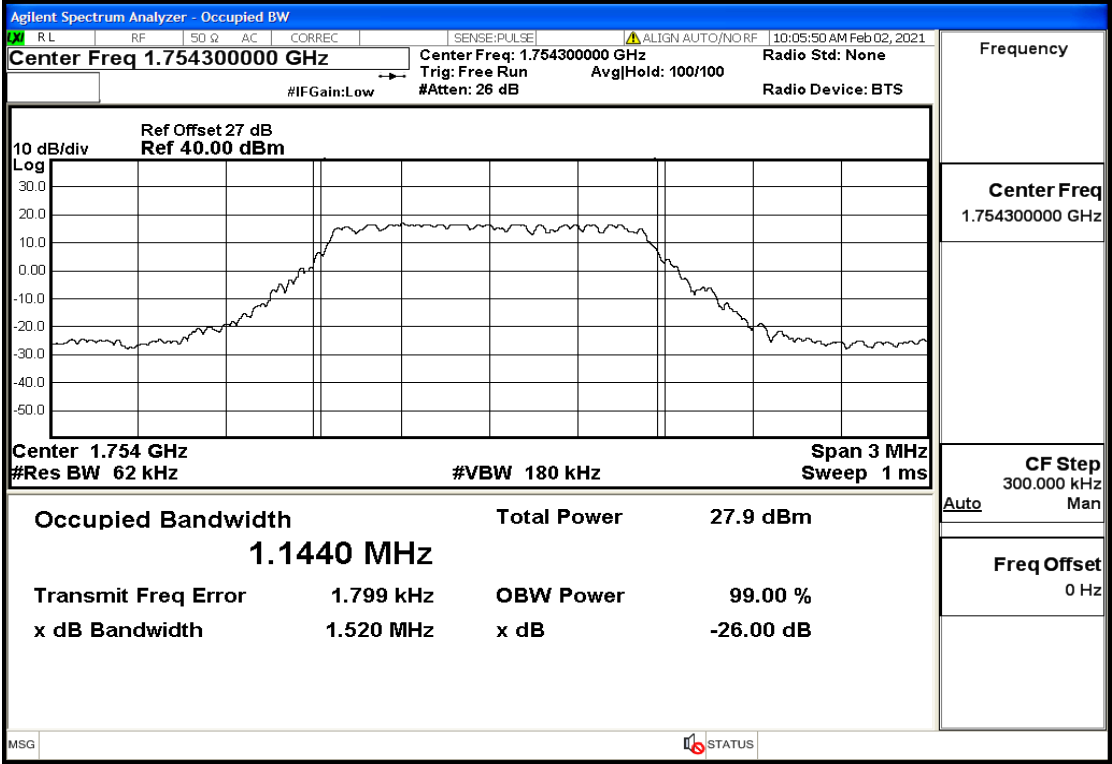
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



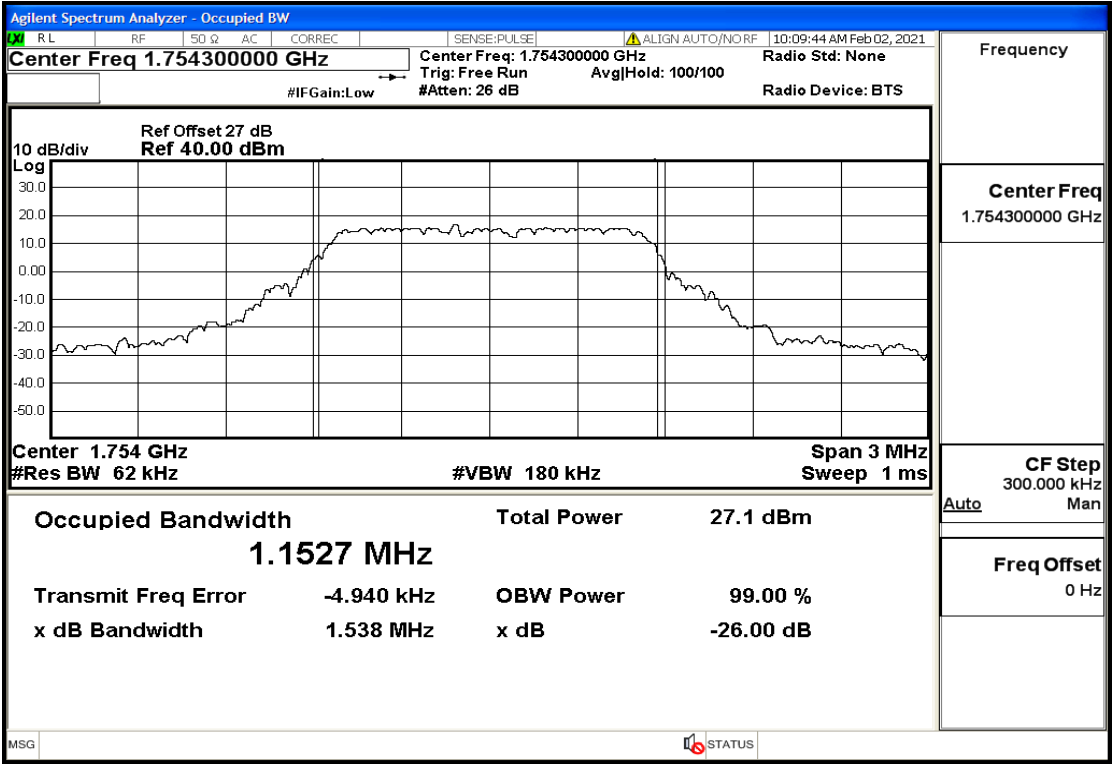
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



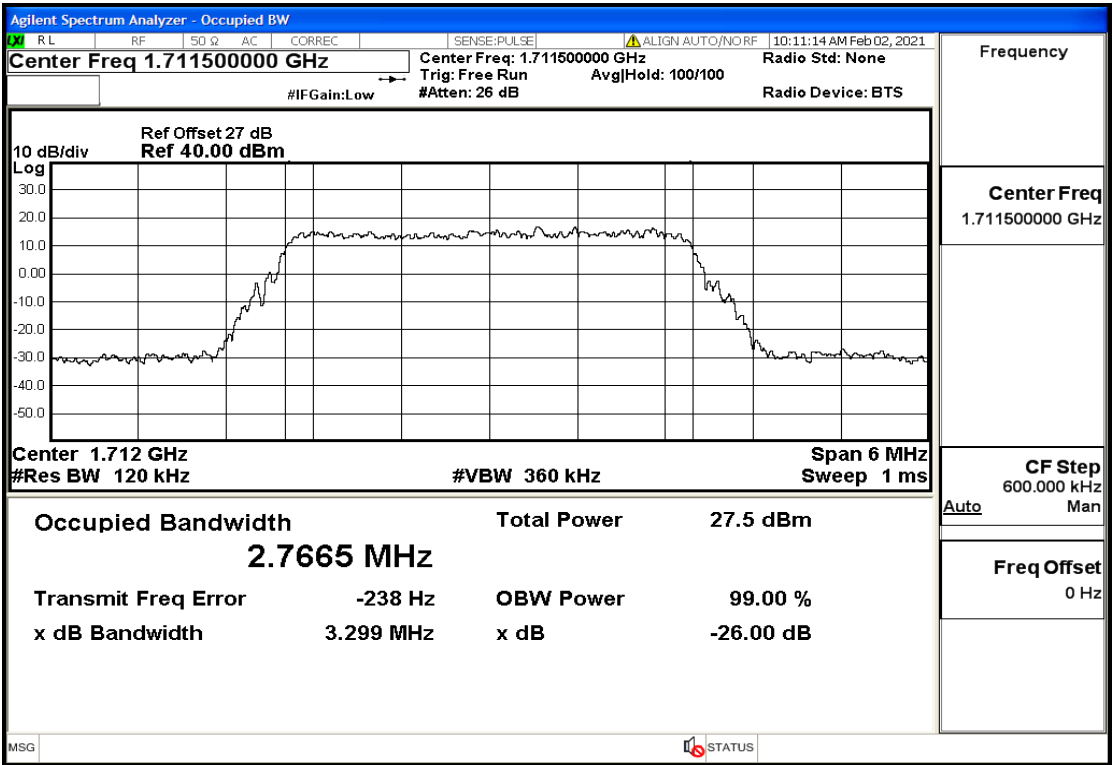
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



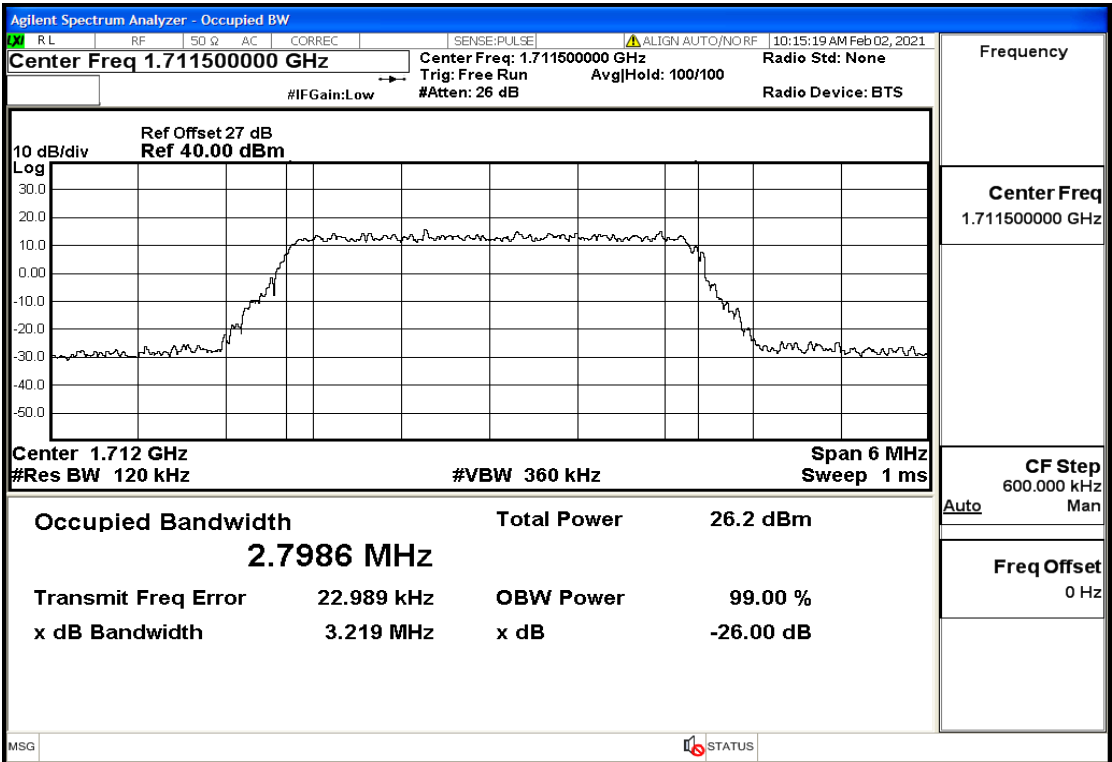
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



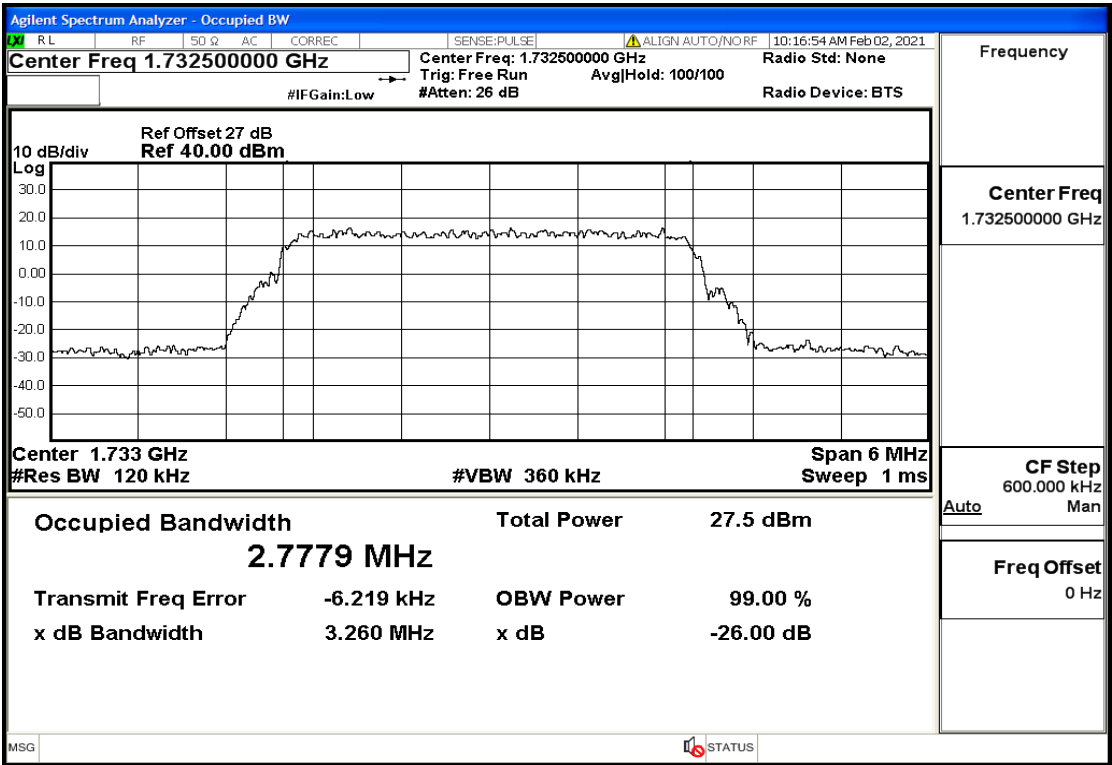
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



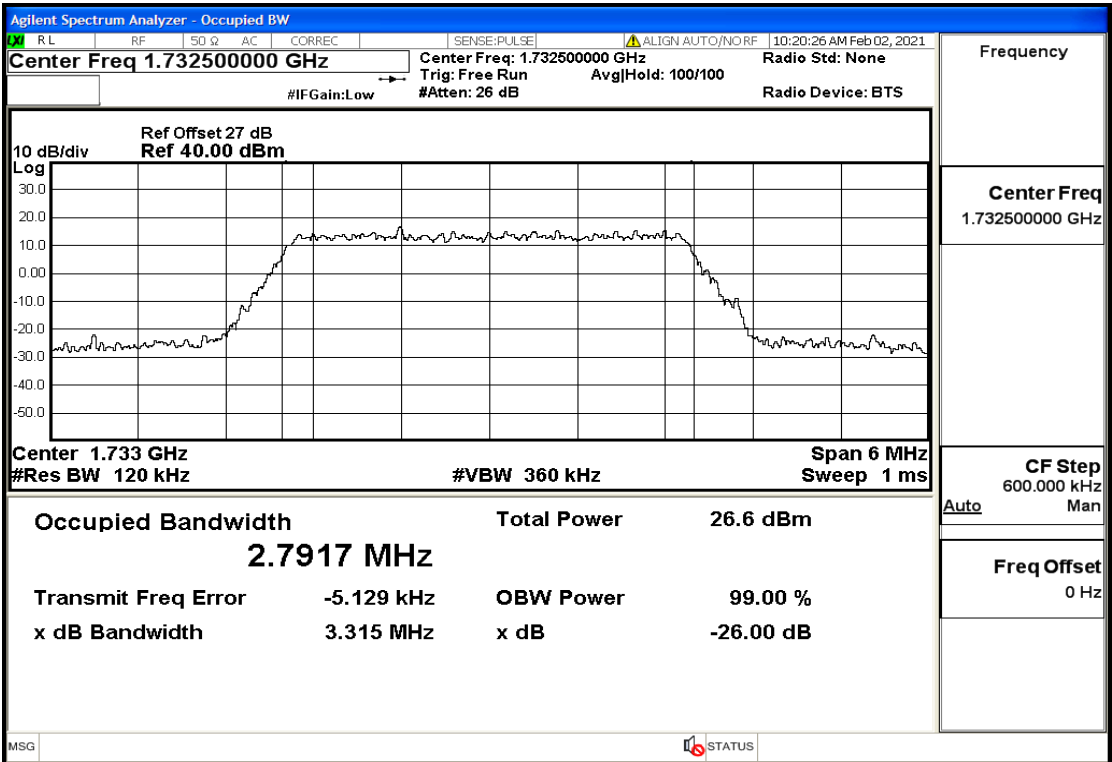
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



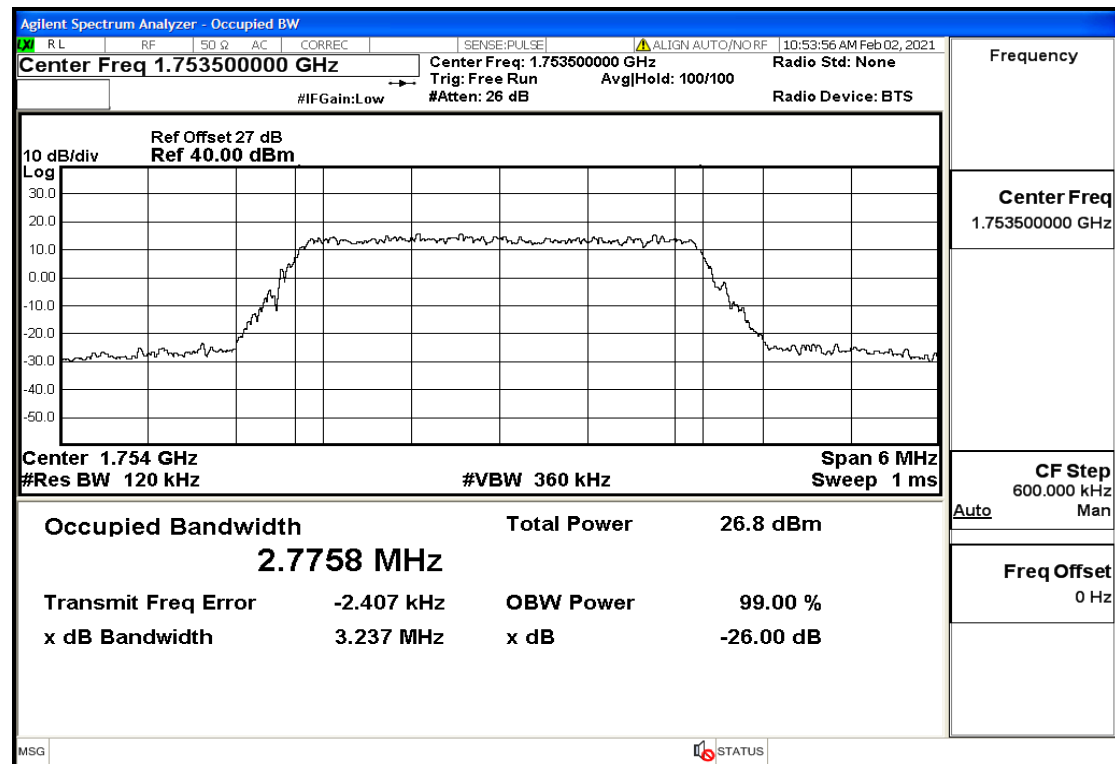
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



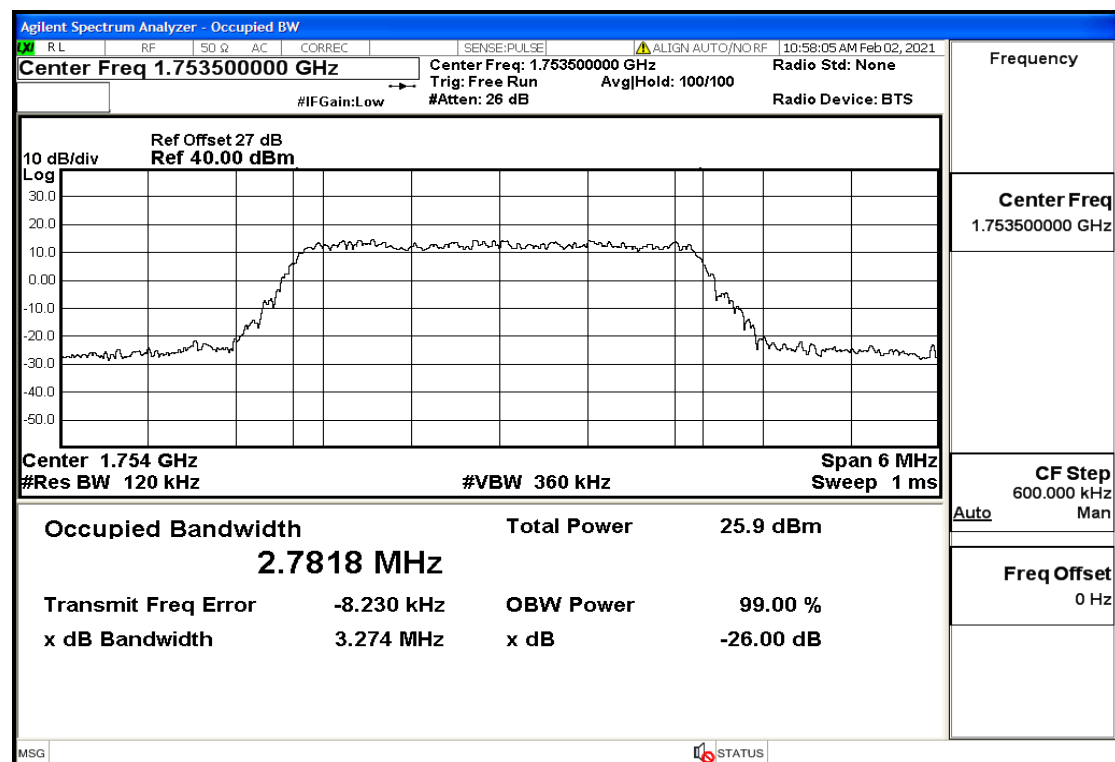
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



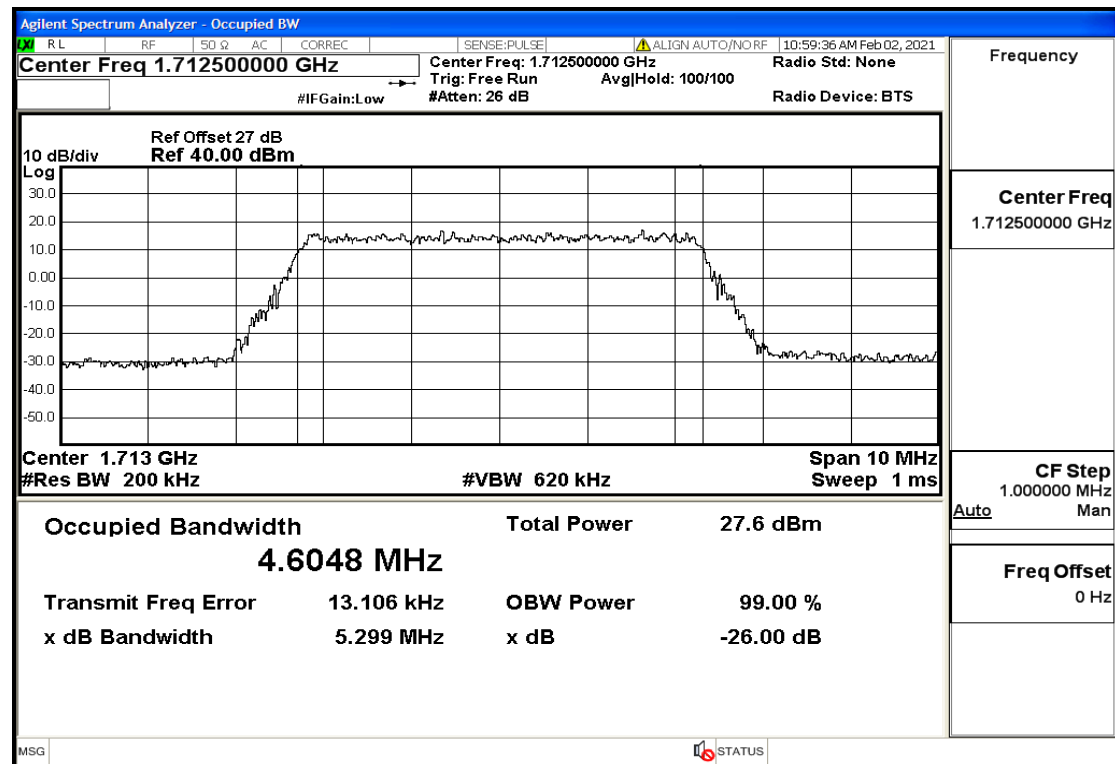
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



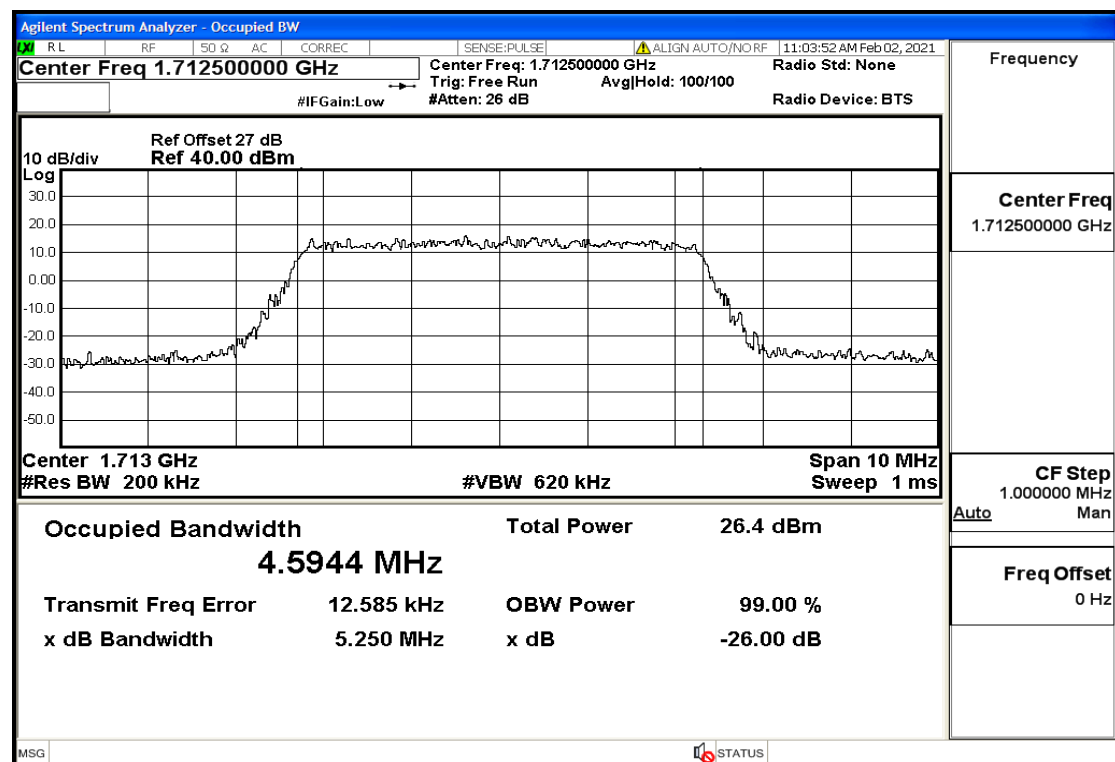
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



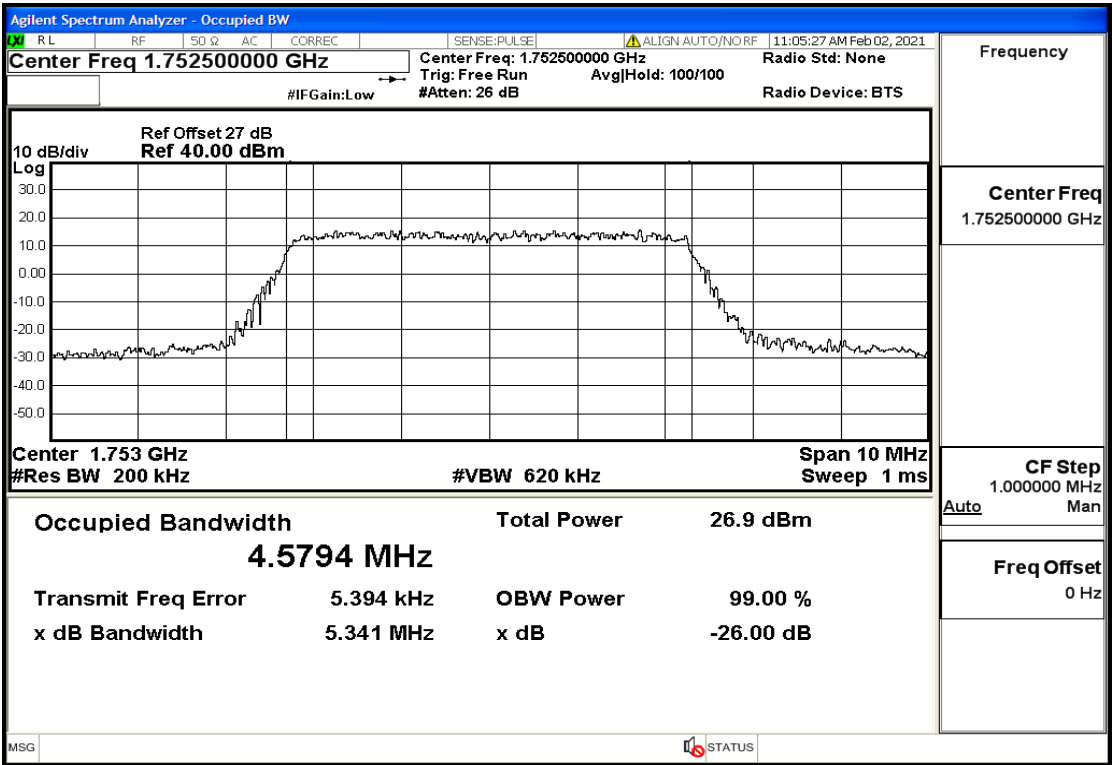
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



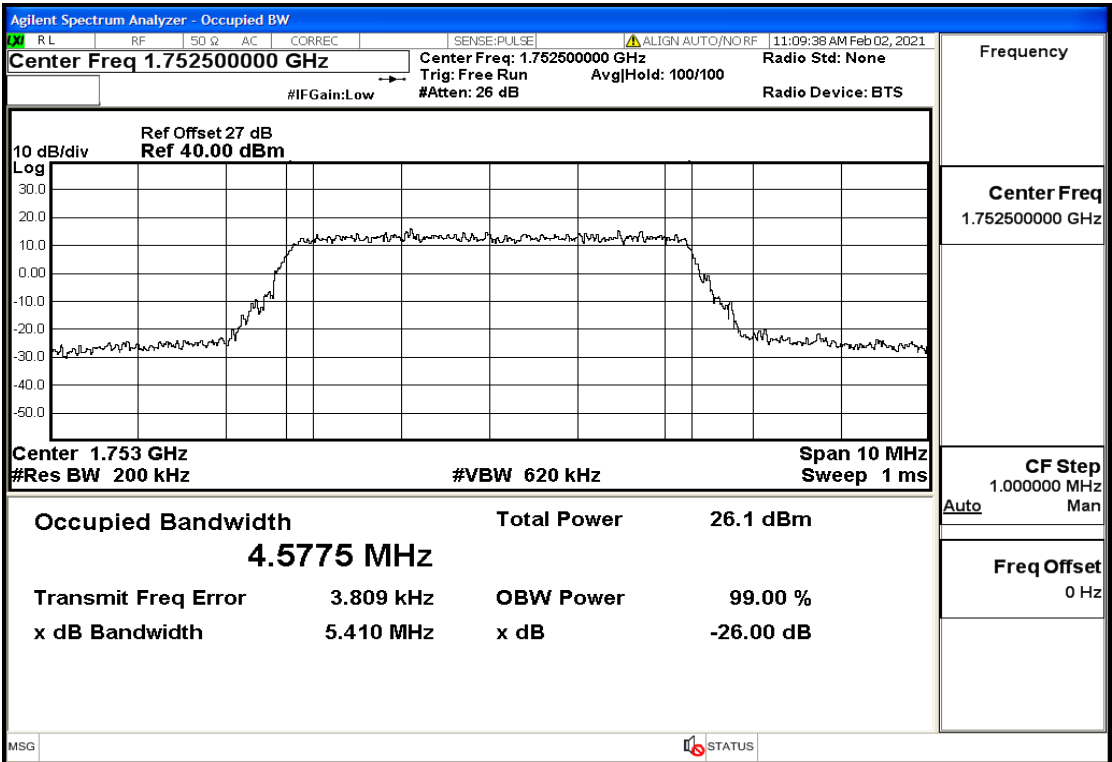
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



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



Band4-5-1752.5-16QAM-25#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	0.0069	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0079	
-20	Normal Voltage	0.0062	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0070	

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

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Average Power	Peak Power	Peak to Average(dB)	limit(dB)	AntGain(dBi)	ERP/EIRP(dBm)	Limit(dBm)	Conclusion
Band4	1.4	1710.7	QPSK	6	LOW	19.39	26.04	6.65	13	0.5	19.89	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	20.26	26.22	5.96	13	0.5	20.76	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	20.06	26	5.94	13	0.5	20.56	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	20.07	25.9	5.83	13	0.5	20.57	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	20.02	25.72	5.7	13	0.5	20.52	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	20.01	25.67	5.66	13	0.5	20.51	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	19.97	25.72	5.75	13	0.5	20.47	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	18.06	25.59	7.53	13	0.5	18.56	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	19.4	25.64	6.24	13	0.5	19.9	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	19.4	25.64	6.24	13	0.5	19.9	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	19.44	25.84	6.4	13	0.5	19.94	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	19.25	25.13	5.88	13	0.5	19.75	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	19.33	25.23	5.9	13	0.5	19.83	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	19.3	25.25	5.95	13	0.5	19.8	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	19.46	25.26	5.8	13	0.5	19.96	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	20.4	25.86	5.46	13	0.5	20.9	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	20.39	25.81	5.42	13	0.5	20.89	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	20.39	25.8	5.41	13	0.5	20.89	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	20.43	25.69	5.26	13	0.5	20.93	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	20.44	25.64	5.2	13	0.5	20.94	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	20.4	25.66	5.26	13	0.5	20.9	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	18.44	25.52	7.08	13	0.5	18.94	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	19.55	26.05	6.5	13	0.5	20.05	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	19.55	26.08	6.53	13	0.5	20.05	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	19.56	26	6.44	13	0.5	20.06	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	19.65	24.86	5.21	13	0.5	20.15	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	19.7	24.99	5.29	13	0.5	20.2	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	19.66	24.72	5.06	13	0.5	20.16	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	19.02	25.07	6.05	13	0.5	19.52	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	20.19	25.84	5.65	13	0.5	20.69	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	20.43	26.12	5.69	13	0.5	20.93	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	20.54	26.15	5.61	13	0.5	21.04	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	20.31	25.46	5.15	13	0.5	20.81	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	20.11	25.31	5.2	13	0.5	20.61	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	20.07	25.29	5.22	13	0.5	20.57	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	18.2	25.21	7.01	13	0.5	18.7	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	19.23	25.67	6.44	13	0.5	19.73	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	19.22	25.65	6.43	13	0.5	19.72	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	19.23	25.66	6.43	13	0.5	19.73	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	19.38	24.58	5.2	13	0.5	19.88	30	Pass

Band4	1.4	1754.3	16QAM	1	MID	19.41	24.7	5.29	13	0.5	19.91	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	19.38	24.61	5.23	13	0.5	19.88	30	Pass
Band4	3	1711.5	QPSK	15	LOW	19.31	25.86	6.55	13	0.5	19.81	30	Pass
Band4	3	1711.5	QPSK	8	LOW	19	25.16	6.16	13	0.5	19.5	30	Pass
Band4	3	1711.5	QPSK	8	MID	19	25.02	6.02	13	0.5	19.5	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	19.06	25.16	6.1	13	0.5	19.56	30	Pass
Band4	3	1711.5	QPSK	1	LOW	19.87	25.03	5.16	13	0.5	20.37	30	Pass
Band4	3	1711.5	QPSK	1	MID	19.97	25.13	5.16	13	0.5	20.47	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	19.91	25.11	5.2	13	0.5	20.41	30	Pass
Band4	3	1711.5	16QAM	15	LOW	18.11	25.28	7.17	13	0.5	18.61	30	Pass
Band4	3	1711.5	16QAM	8	LOW	18.34	25.31	6.97	13	0.5	18.84	30	Pass
Band4	3	1711.5	16QAM	8	MID	18.35	25.37	7.02	13	0.5	18.85	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	18.43	25.54	7.11	13	0.5	18.93	30	Pass
Band4	3	1711.5	16QAM	1	LOW	19.68	26.01	6.33	13	0.5	20.18	30	Pass
Band4	3	1711.5	16QAM	1	MID	19.83	26.04	6.21	13	0.5	20.33	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	19.79	26.11	6.32	13	0.5	20.29	30	Pass
Band4	3	1732.5	QPSK	15	LOW	19.42	25.59	6.17	13	0.5	19.92	30	Pass
Band4	3	1732.5	QPSK	8	LOW	19.37	25.53	6.16	13	0.5	19.87	30	Pass
Band4	3	1732.5	QPSK	8	MID	19.37	25.5	6.13	13	0.5	19.87	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	19.27	25.56	6.29	13	0.5	19.77	30	Pass
Band4	3	1732.5	QPSK	1	LOW	20.41	25.63	5.22	13	0.5	20.91	30	Pass
Band4	3	1732.5	QPSK	1	MID	20.43	25.62	5.19	13	0.5	20.93	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	20.19	25.58	5.39	13	0.5	20.69	30	Pass
Band4	3	1732.5	16QAM	15	LOW	18.41	25.78	7.37	13	0.5	18.91	30	Pass
Band4	3	1732.5	16QAM	8	LOW	18.52	25.07	6.55	13	0.5	19.02	30	Pass
Band4	3	1732.5	16QAM	8	MID	18.51	25.39	6.88	13	0.5	19.01	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	18.44	25.33	6.89	13	0.5	18.94	30	Pass
Band4	3	1732.5	16QAM	1	LOW	19.67	24.69	5.02	13	0.5	20.17	30	Pass
Band4	3	1732.5	16QAM	1	MID	19.72	24.74	5.02	13	0.5	20.22	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	19.47	24.6	5.13	13	0.5	19.97	30	Pass
Band4	3	1753.5	QPSK	15	LOW	19.07	25.89	6.82	13	0.5	19.57	30	Pass
Band4	3	1753.5	QPSK	8	LOW	19.14	25.49	6.35	13	0.5	19.64	30	Pass
Band4	3	1753.5	QPSK	8	MID	19.13	25.5	6.37	13	0.5	19.63	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	19.16	25.61	6.45	13	0.5	19.66	30	Pass
Band4	3	1753.5	QPSK	1	LOW	20.01	25.25	5.24	13	0.5	20.51	30	Pass
Band4	3	1753.5	QPSK	1	MID	20.18	25.31	5.13	13	0.5	20.68	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	20.01	25.28	5.27	13	0.5	20.51	30	Pass
Band4	3	1753.5	16QAM	15	LOW	18.27	25.88	7.61	13	0.5	18.77	30	Pass
Band4	3	1753.5	16QAM	8	LOW	18.23	24.86	6.63	13	0.5	18.73	30	Pass
Band4	3	1753.5	16QAM	8	MID	18.24	24.48	6.24	13	0.5	18.74	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	18.27	24.94	6.67	13	0.5	18.77	30	Pass
Band4	3	1753.5	16QAM	1	LOW	19.31	24.58	5.27	13	0.5	19.81	30	Pass
Band4	3	1753.5	16QAM	1	MID	19.46	24.71	5.25	13	0.5	19.96	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	19.28	24.57	5.29	13	0.5	19.78	30	Pass
Band4	5	1712.5	QPSK	25	LOW	19.35	25.78	6.43	13	0.5	19.85	30	Pass
Band4	5	1712.5	QPSK	12	LOW	18.95	25	6.05	13	0.5	19.45	30	Pass

Band4	5	1712.5	QPSK	12	MID	18.95	25.12	6.17	13	0.5	19.45	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	19.12	25.24	6.12	13	0.5	19.62	30	Pass
Band4	5	1712.5	QPSK	1	LOW	19.74	26.01	6.27	13	0.5	20.24	30	Pass
Band4	5	1712.5	QPSK	1	MID	20.13	26.26	6.13	13	0.5	20.63	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	19.92	26.13	6.21	13	0.5	20.42	30	Pass
Band4	5	1712.5	16QAM	25	LOW	18.11	25.32	7.21	13	0.5	18.61	30	Pass
Band4	5	1712.5	16QAM	12	LOW	18.14	25.65	7.51	13	0.5	18.64	30	Pass
Band4	5	1712.5	16QAM	12	MID	18.13	25.68	7.55	13	0.5	18.63	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	18.32	25.81	7.49	13	0.5	18.82	30	Pass
Band4	5	1712.5	16QAM	1	LOW	18.95	24.84	5.89	13	0.5	19.45	30	Pass
Band4	5	1712.5	16QAM	1	MID	19.38	25.22	5.84	13	0.5	19.88	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	19.2	25.09	5.89	13	0.5	19.7	30	Pass
Band4	5	1752.5	QPSK	25	LOW	19.38	26.14	6.76	13	0.5	19.88	30	Pass
Band4	5	1752.5	QPSK	12	LOW	19.36	25.77	6.41	13	0.5	19.86	30	Pass
Band4	5	1752.5	QPSK	12	MID	19.36	25.88	6.52	13	0.5	19.86	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	19.2	25.84	6.64	13	0.5	19.7	30	Pass
Band4	5	1752.5	QPSK	1	LOW	20.28	25.52	5.24	13	0.5	20.78	30	Pass
Band4	5	1752.5	QPSK	1	MID	20.47	25.64	5.17	13	0.5	20.97	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	20	25.42	5.42	13	0.5	20.5	30	Pass
Band4	5	1752.5	16QAM	25	LOW	18.33	26.58	8.25	13	0.5	18.83	30	Pass
Band4	5	1752.5	16QAM	12	LOW	18.61	25.55	6.94	13	0.5	19.11	30	Pass
Band4	5	1752.5	16QAM	12	MID	18.62	25.55	6.93	13	0.5	19.12	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	18.47	25.34	6.87	13	0.5	18.97	30	Pass
Band4	5	1752.5	16QAM	1	LOW	19.71	25.53	5.82	13	0.5	20.21	30	Pass
Band4	5	1752.5	16QAM	1	MID	19.94	25.61	5.67	13	0.5	20.44	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	19.46	25.47	6.01	13	0.5	19.96	30	Pass