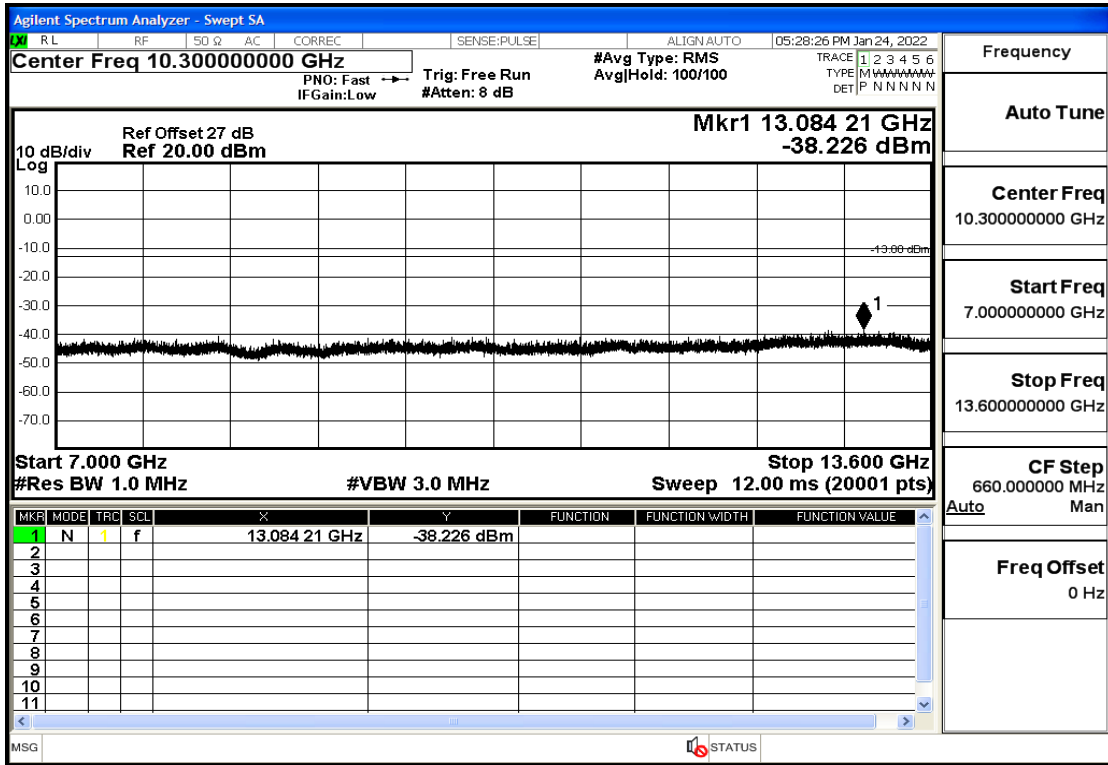
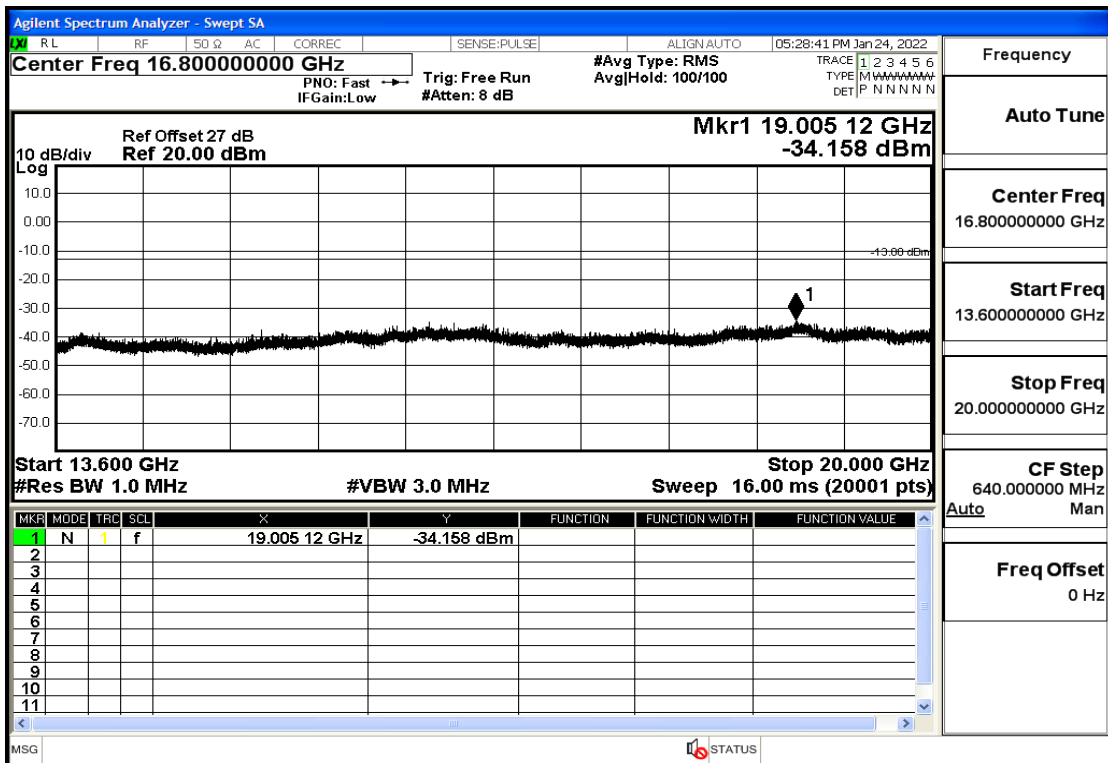


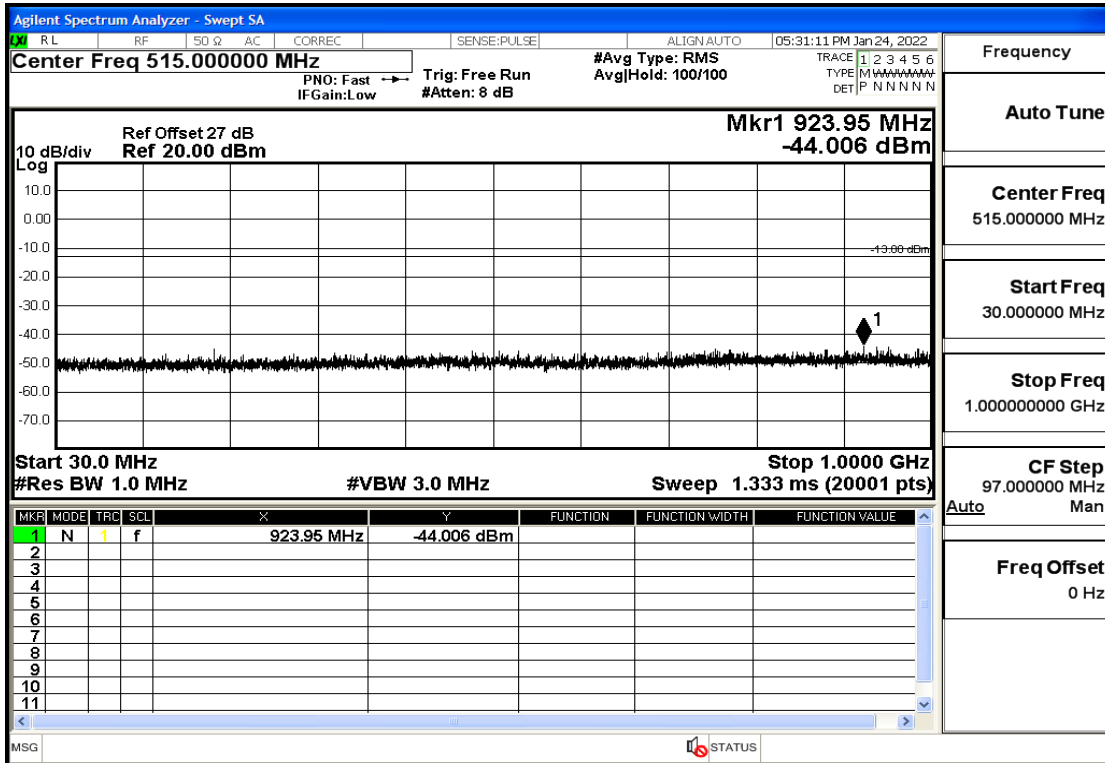
OB4-20-1745-QPSK-100#LOW@7GHz-13.6GHz@Pass



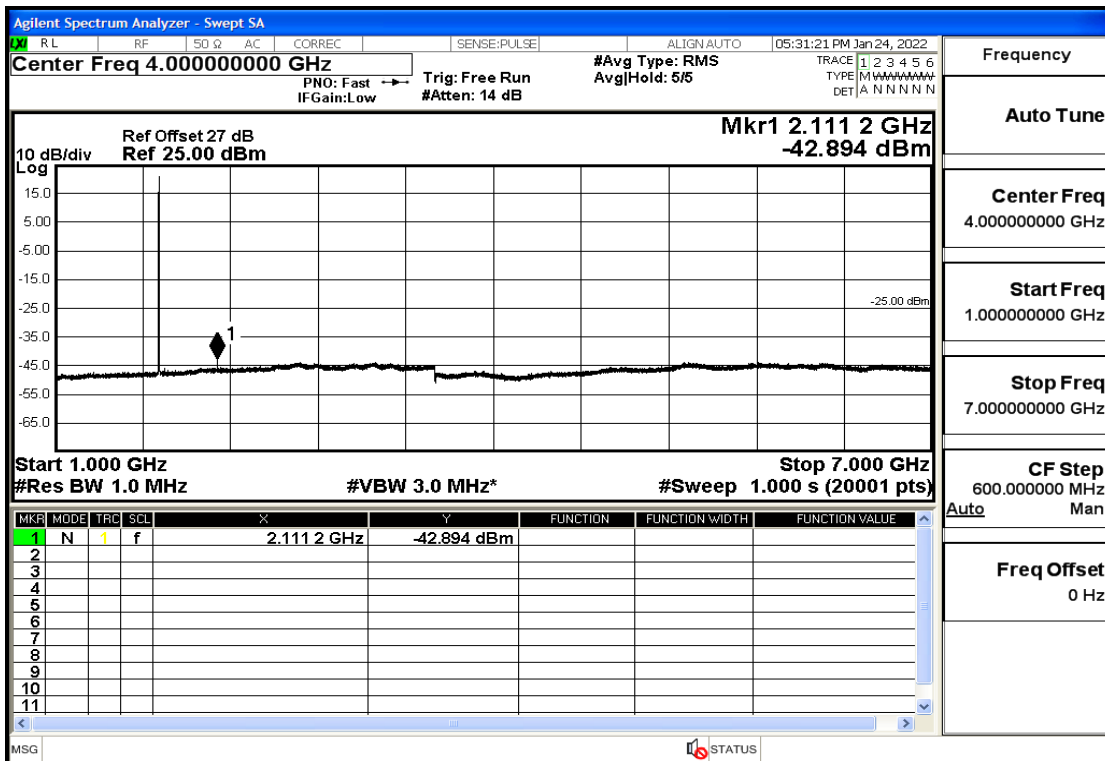
OB4-20-1745-QPSK-100#LOW@13.6GHz-20GHz@Pass



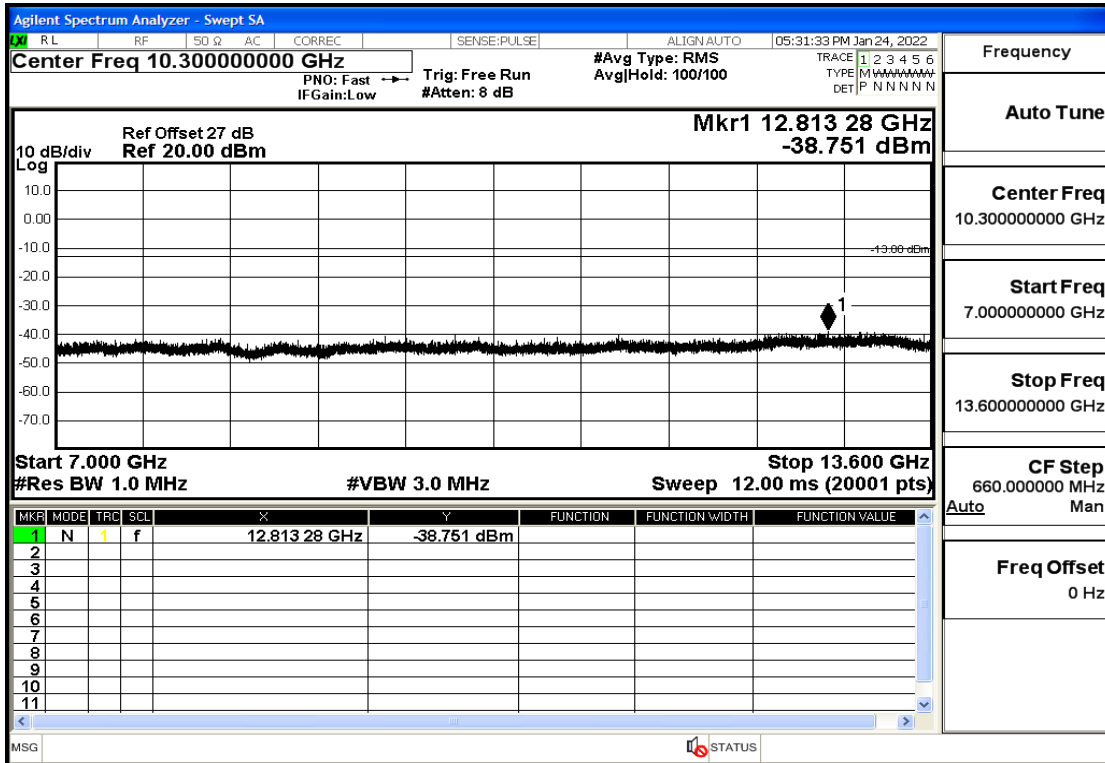
OB4-1.4-1710.7-Q16-6#LOW@30mHz-1GHz@Pass



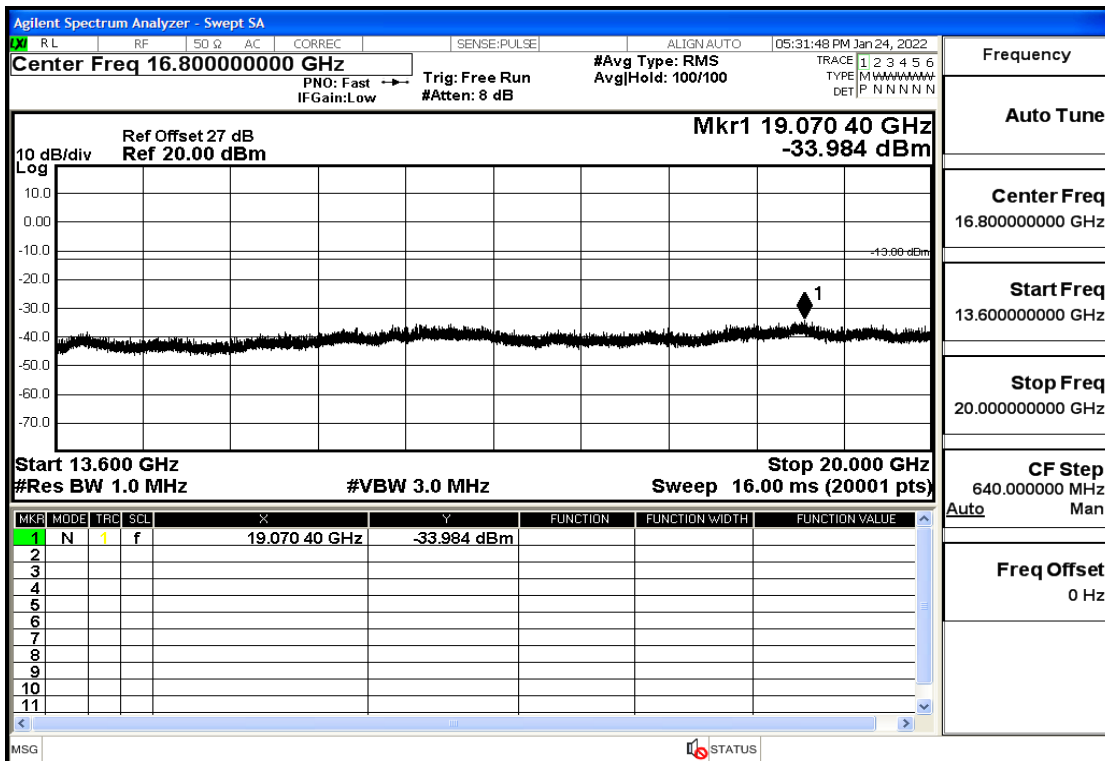
OB4-1.4-1710.7-Q16-6#LOW@1GHz-7GHz@Pass



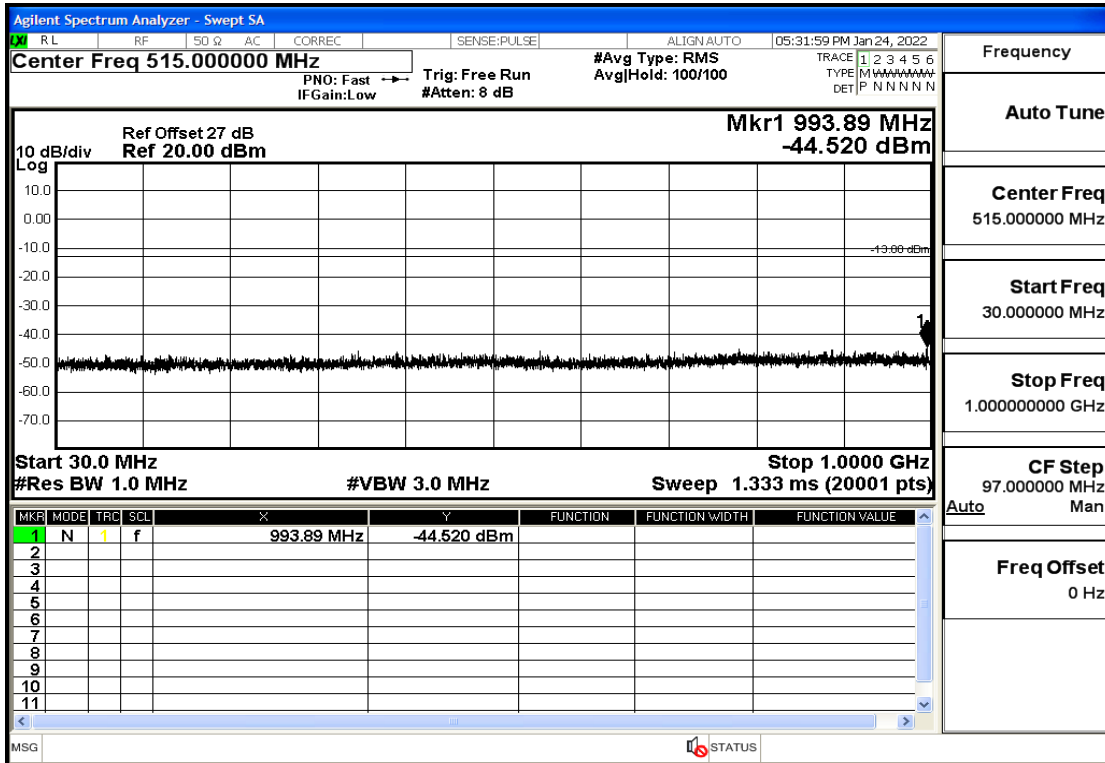
OB4-1.4-1710.7-Q16-6#LOW@7GHz-13.6GHz@Pass



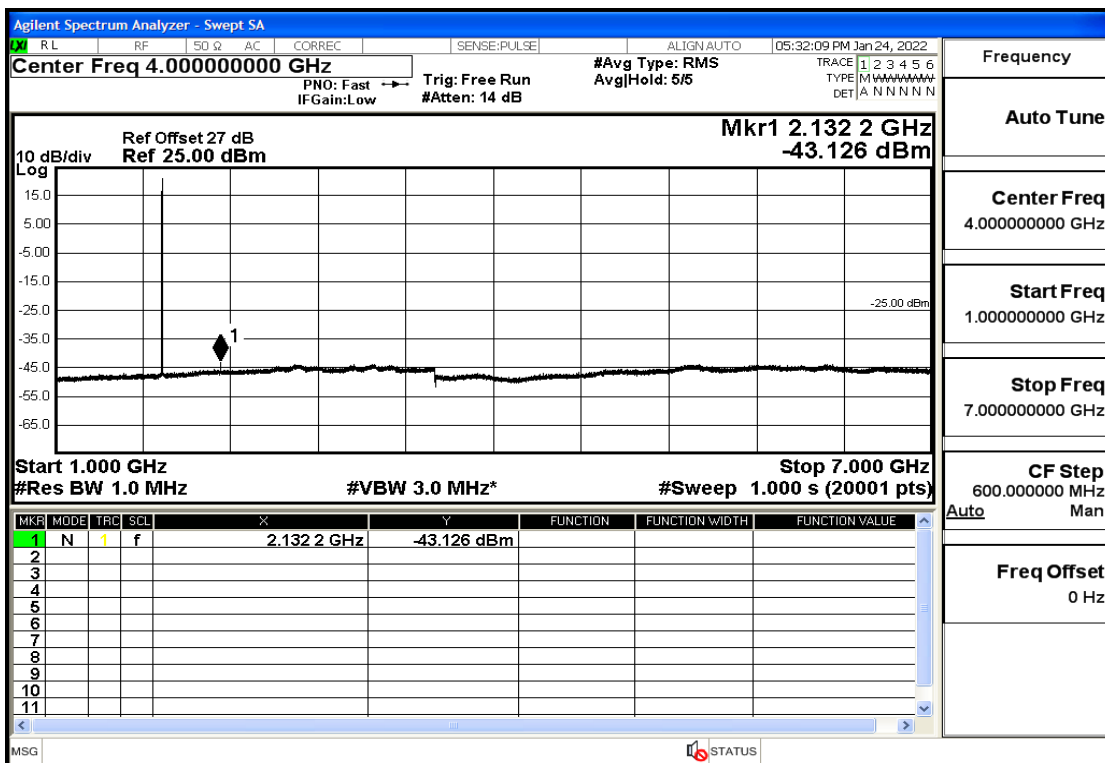
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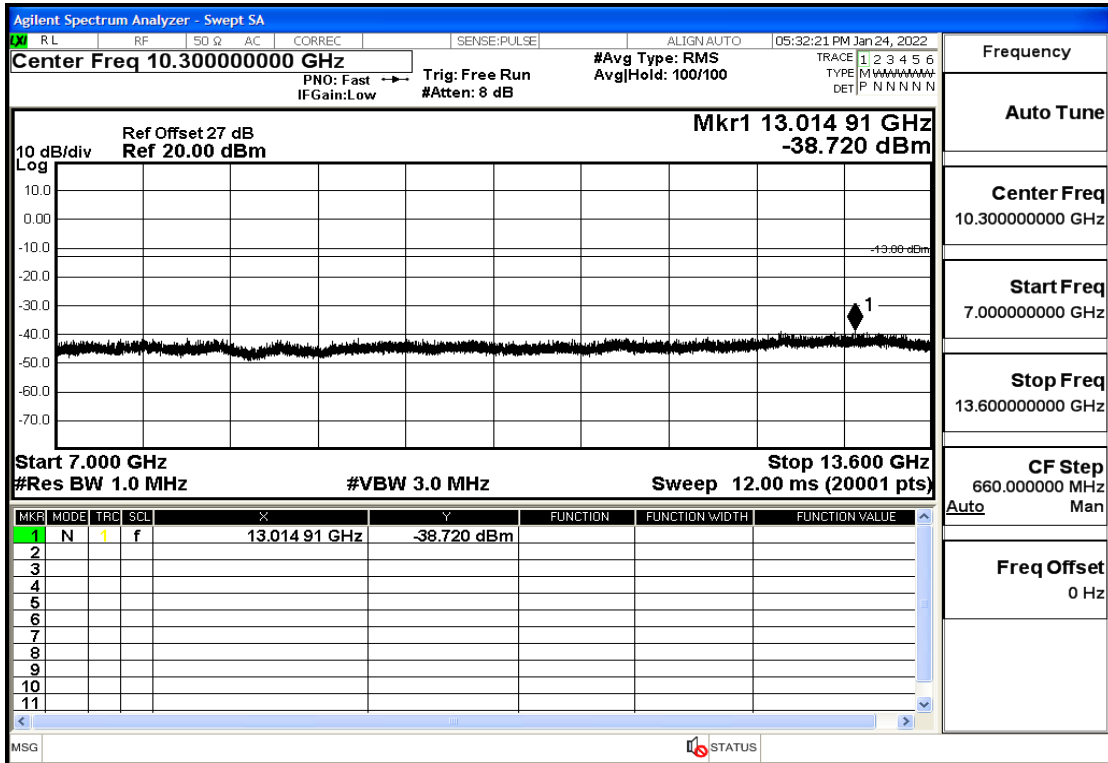
OB4-1.4-1732.5-Q16-6#LOW@30mHz-1GHz@Pass



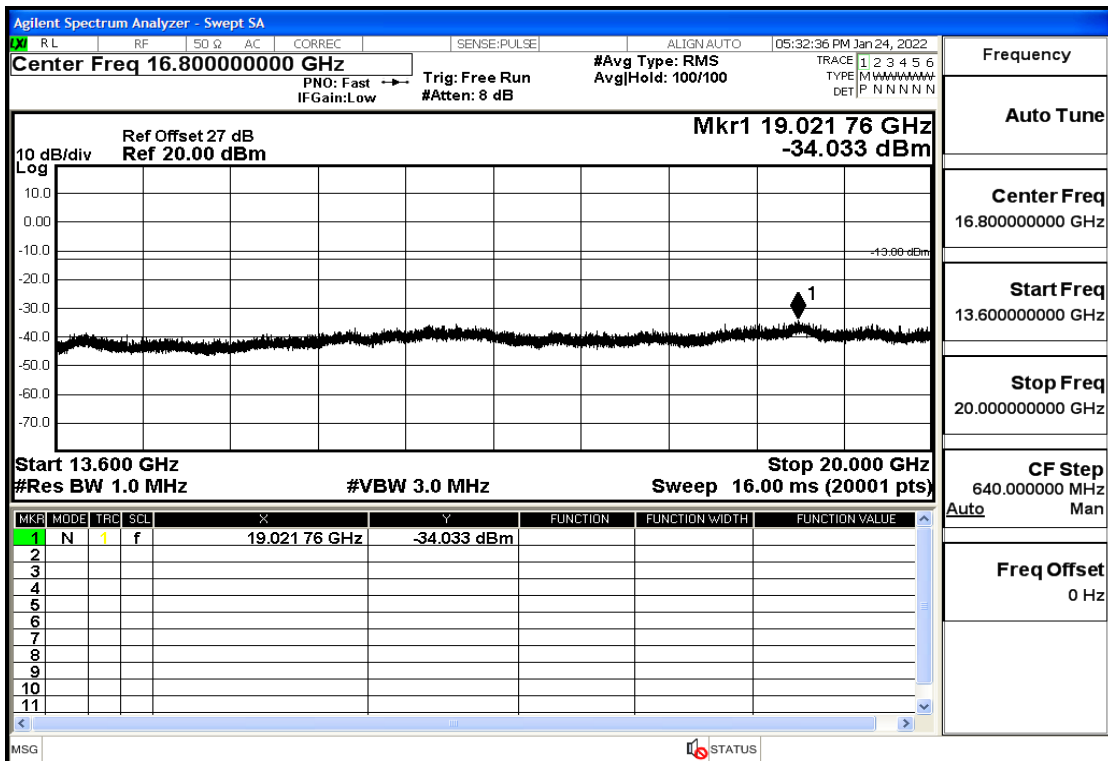
OB4-1.4-1732.5-Q16-6#LOW@1GHz-7GHz@Pass



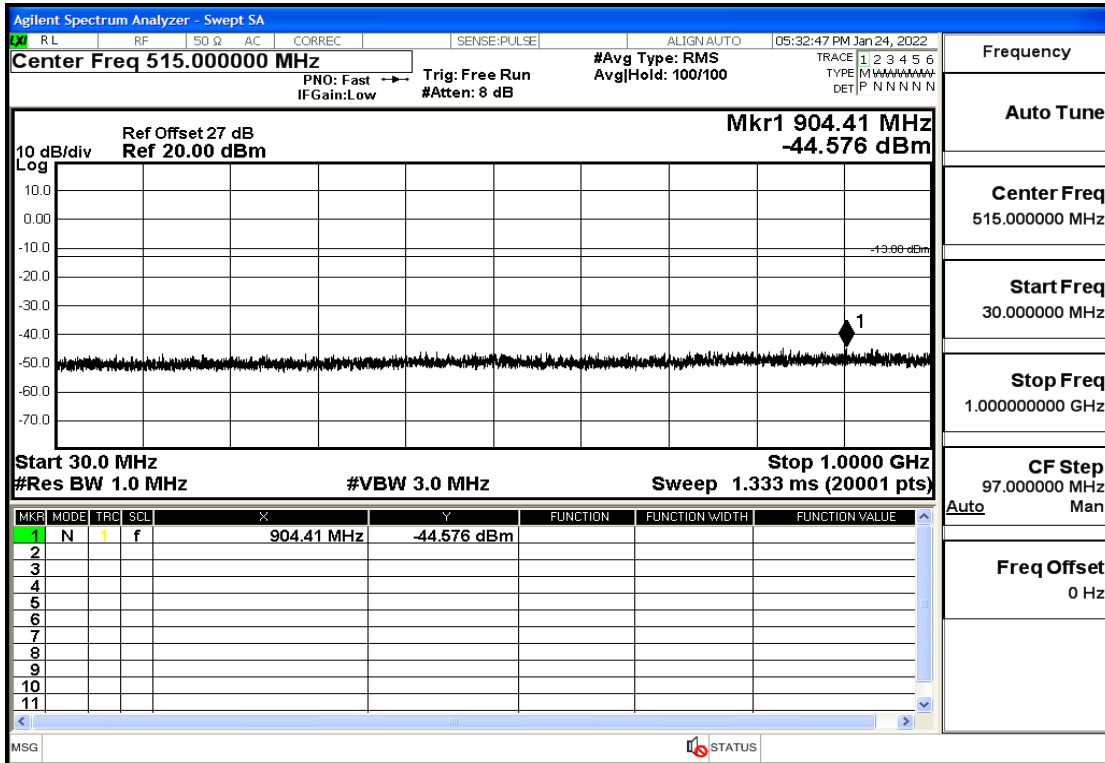
OB4-1.4-1732.5-Q16-6#LOW@7GHz-13.6GHz@Pass



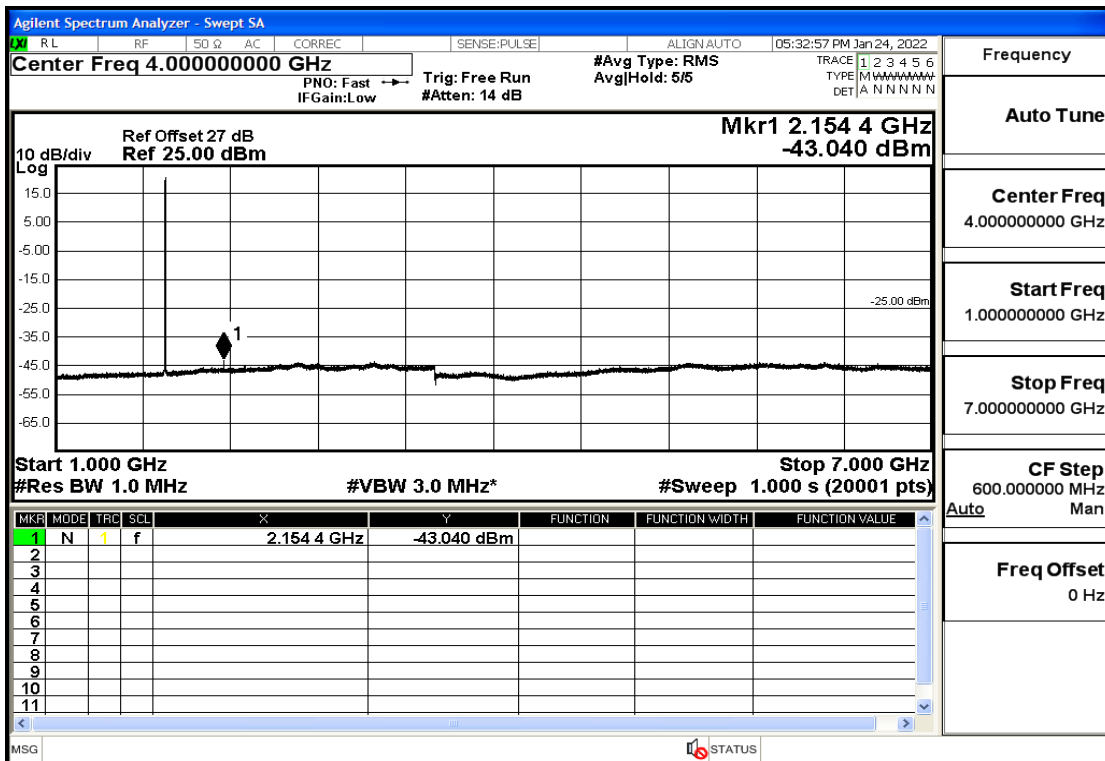
OB4-1.4-1732.5-Q16-6#LOW@13.6GHz-20GHz@Pass



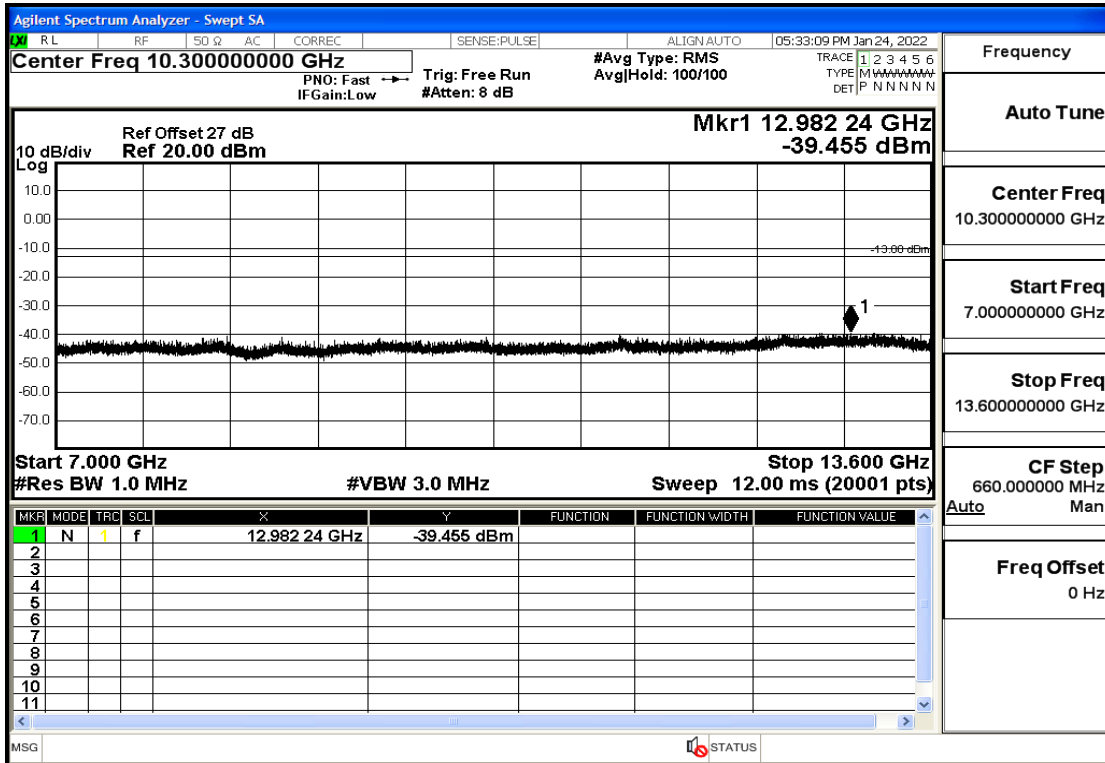
OB4-1.4-1754.3-Q16-6#LOW@30mHz-1GHz@Pass



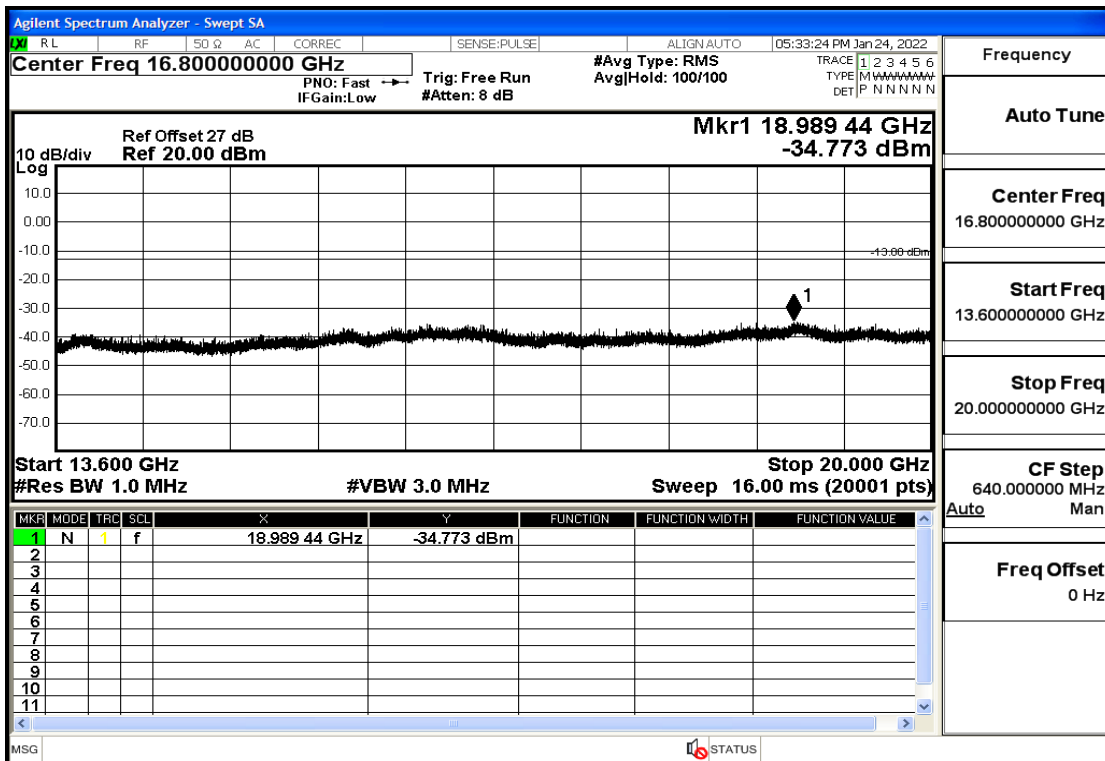
OB4-1.4-1754.3-Q16-6#LOW@1GHz-7GHz@Pass



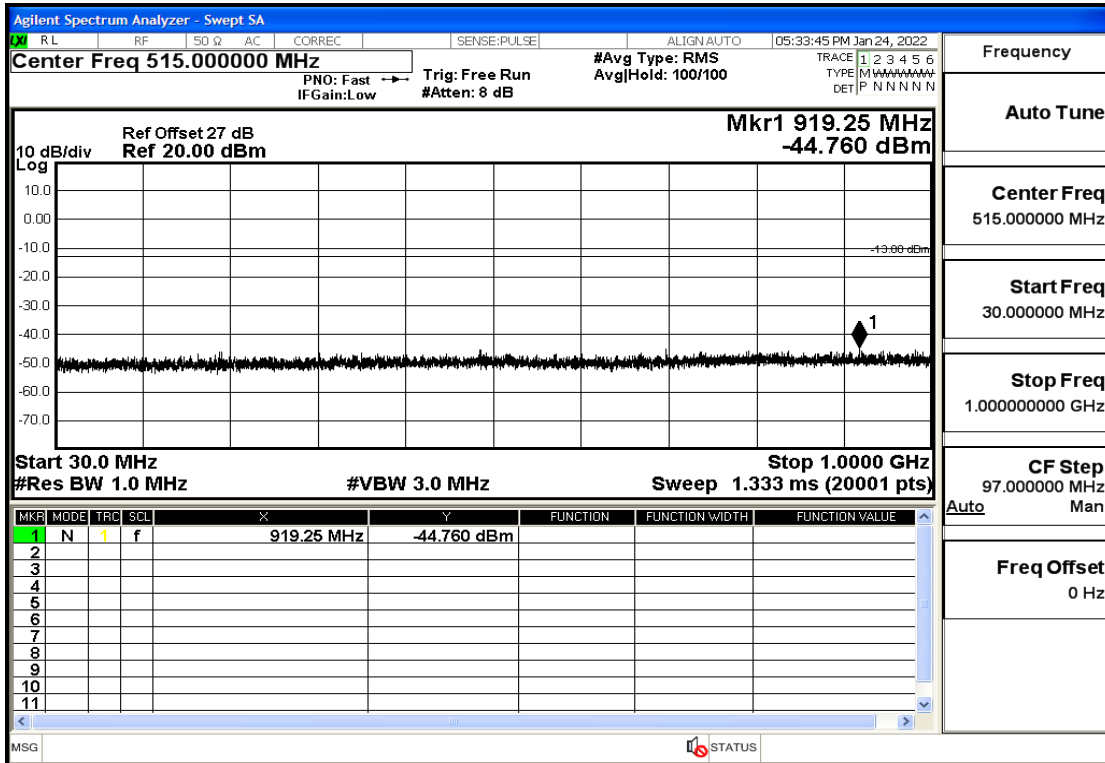
OB4-1.4-1754.3-Q16-6#LOW@7GHz-13.6GHz@Pass



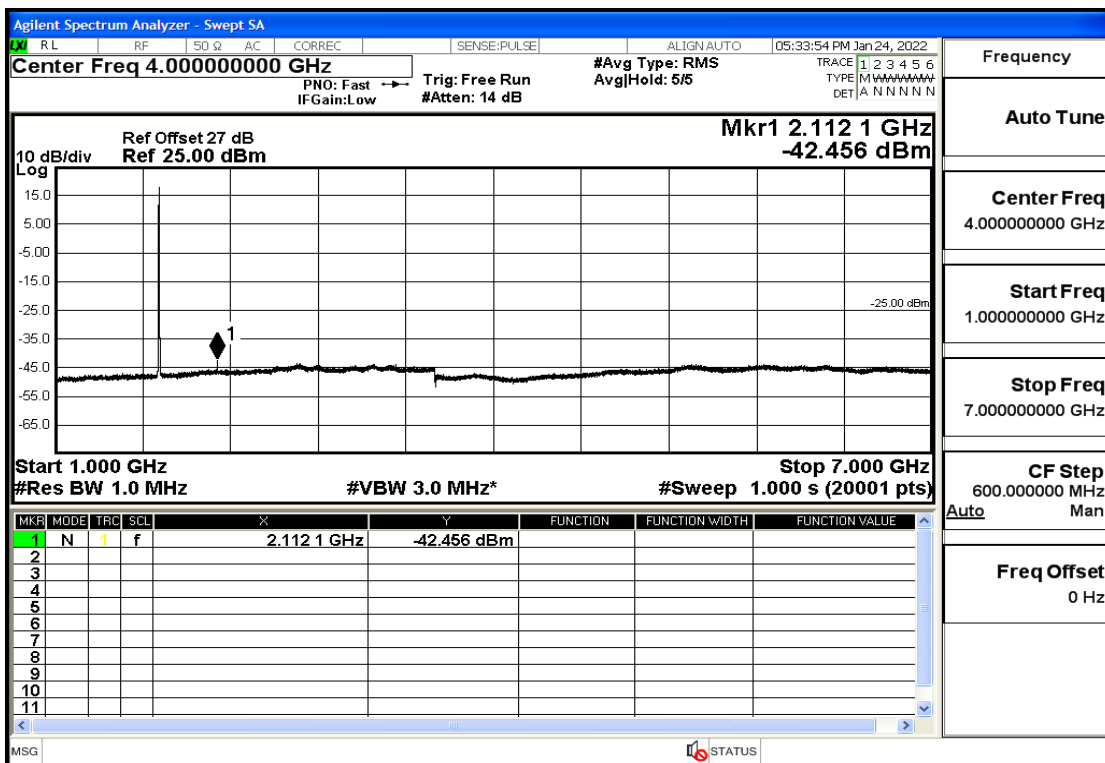
OB4-1.4-1754.3-Q16-6#LOW@13.6GHz-20GHz@Pass



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

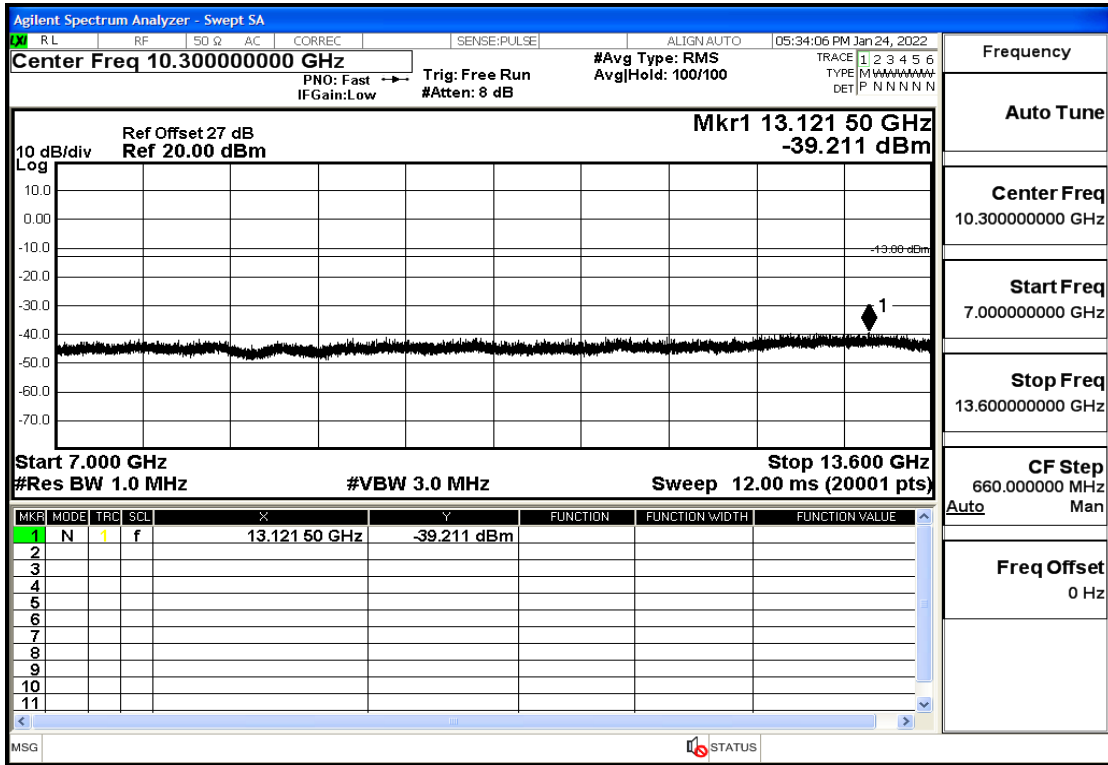


OB4-3-1711.5-Q16-15#LOW@1GHz-7GHz@Pass

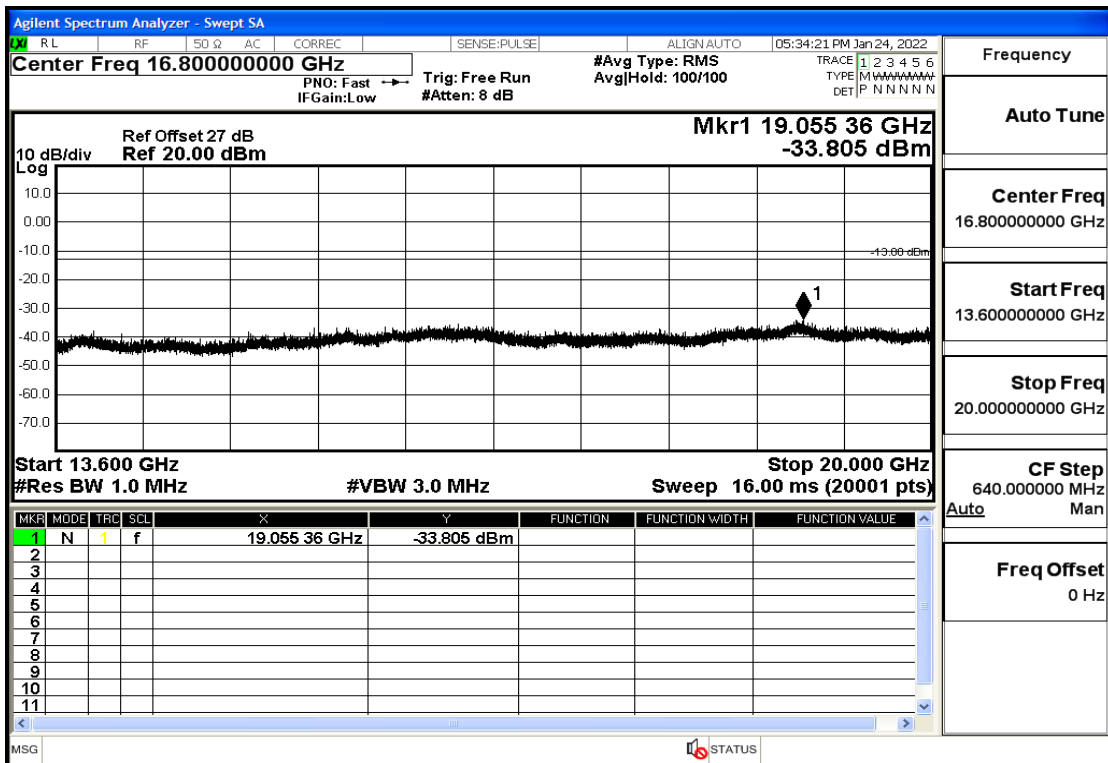




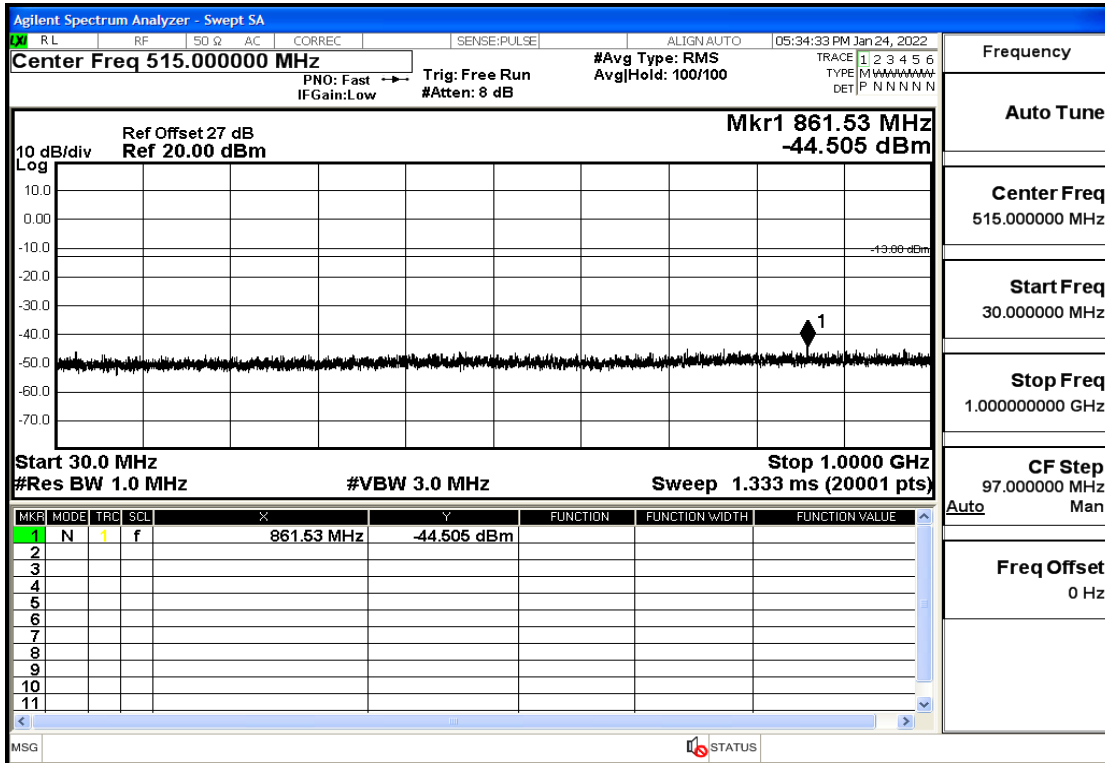
OB4-3-1711.5-Q16-15#LOW@7GHz-13.6GHz@Pass



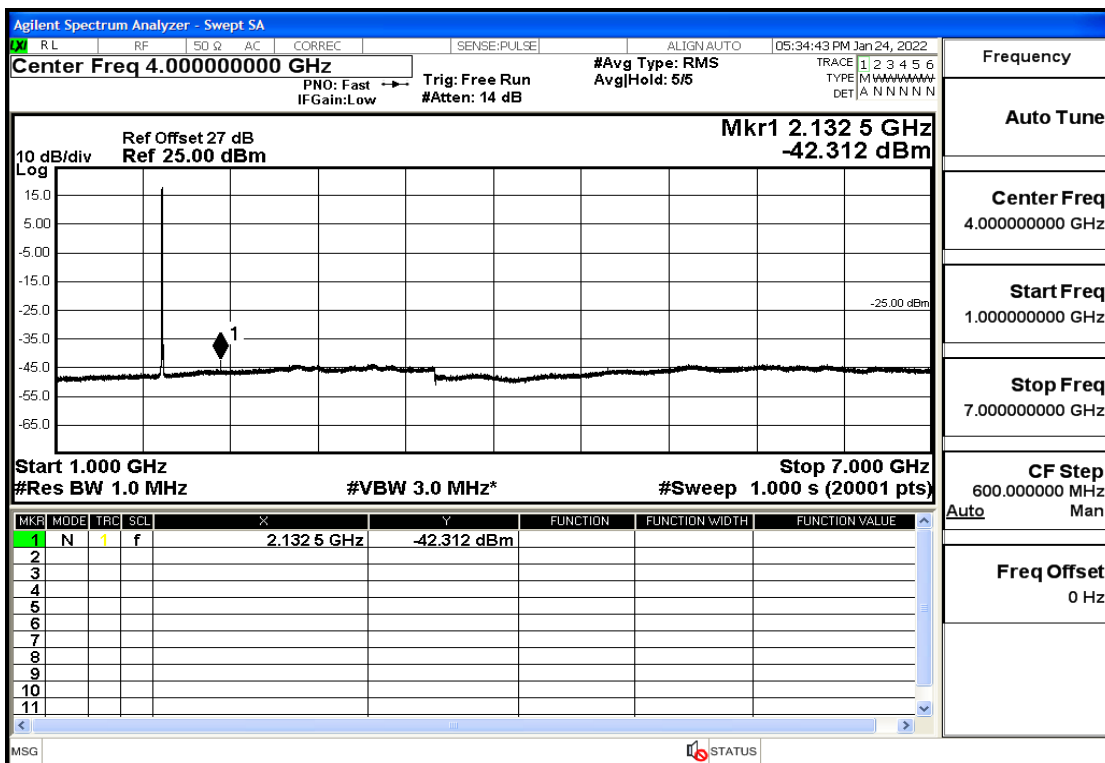
OB4-3-1711.5-Q16-15#LOW@13.6GHz-20GHz@Pass



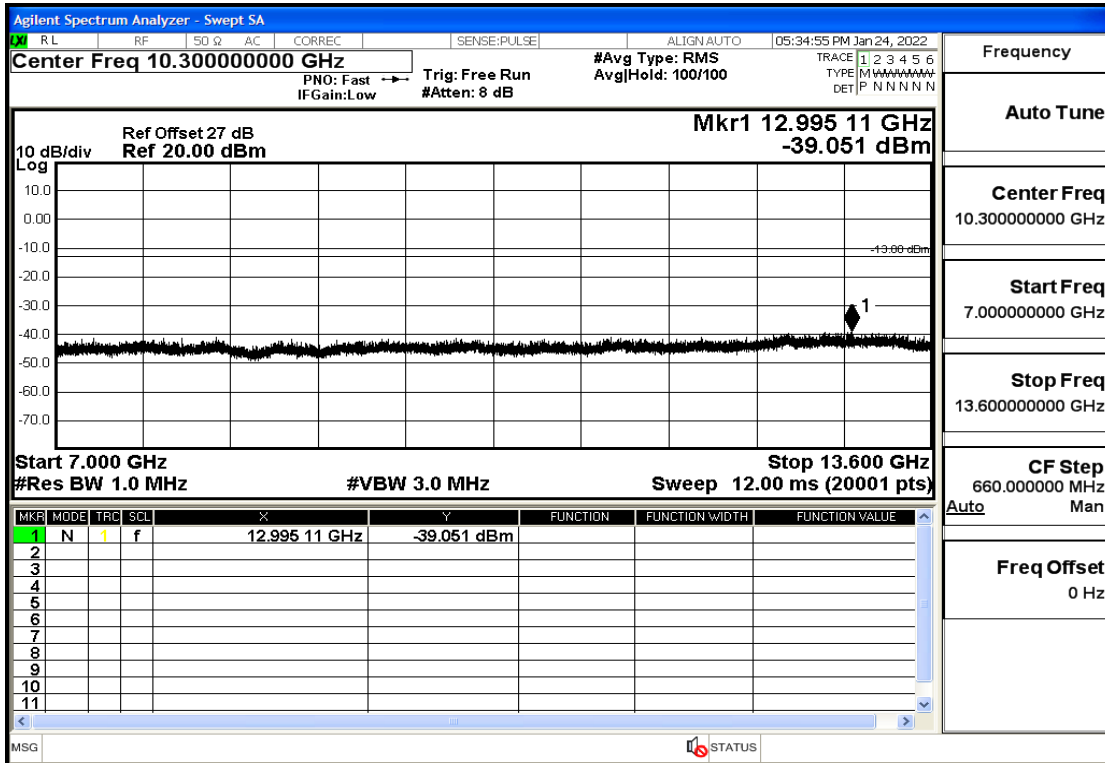
OB4-3-1732.5-Q16-15#LOW@30mHz-1GHz@Pass



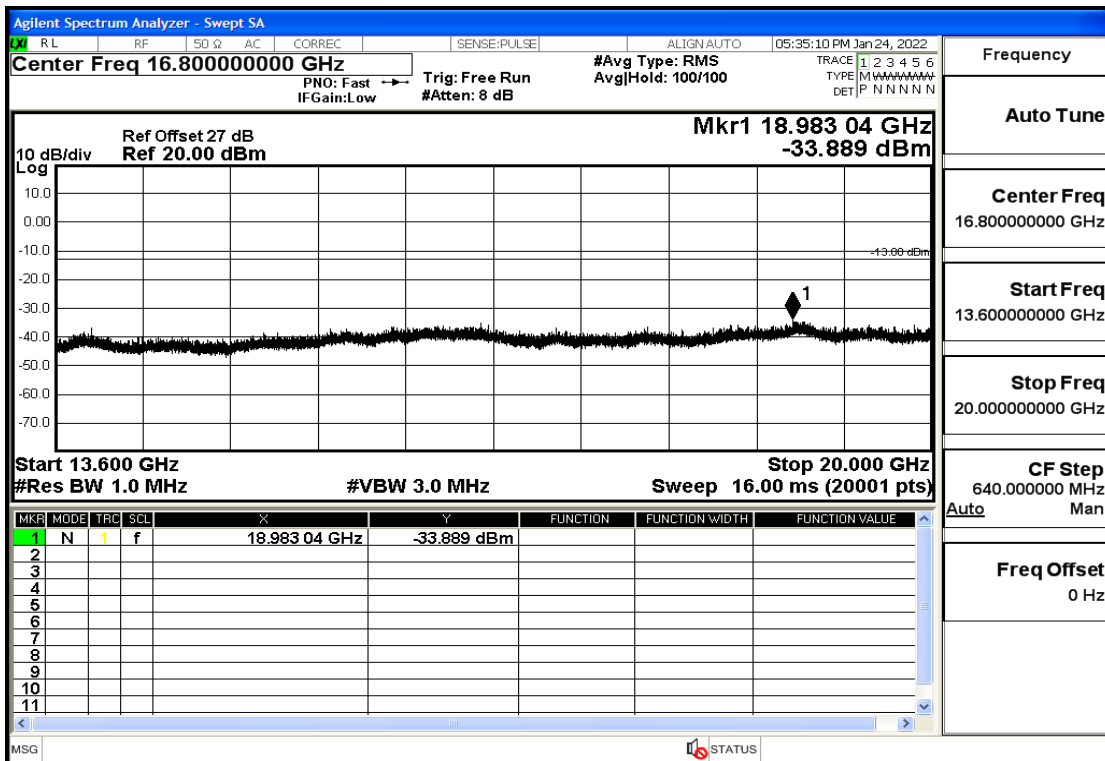
OB4-3-1732.5-Q16-15#LOW@1GHz-7GHz@Pass



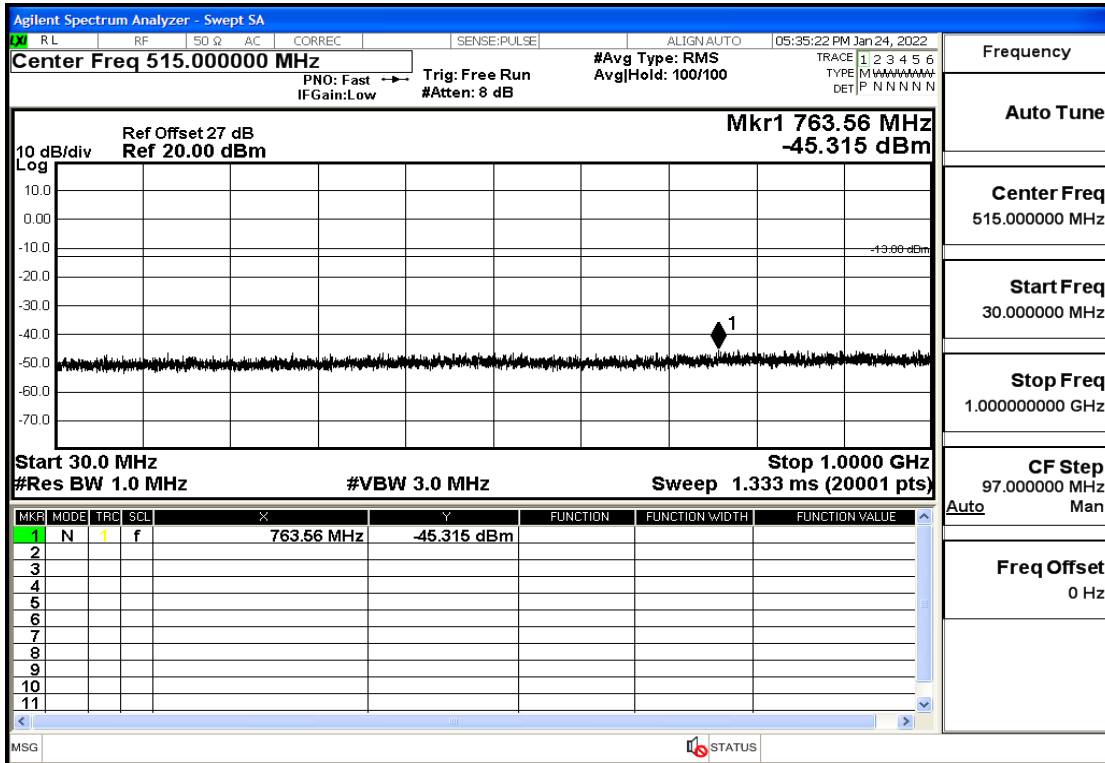
OB4-3-1732.5-Q16-15#LOW@7GHz-13.6GHz@Pass



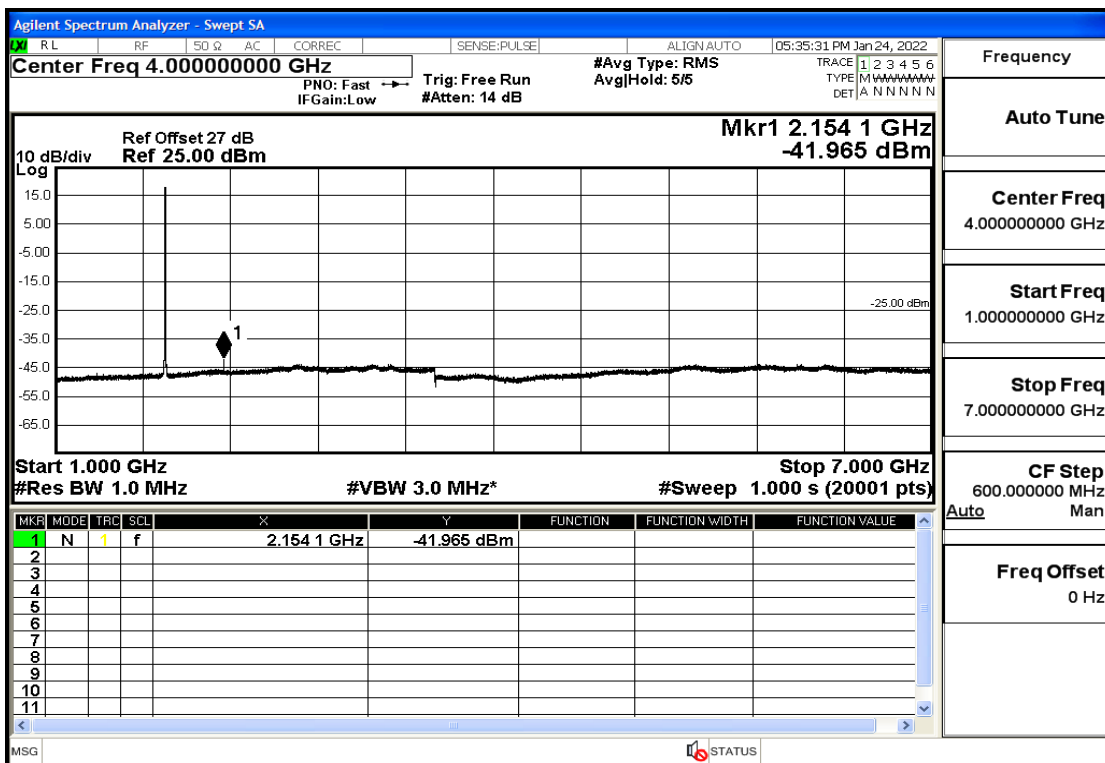
OB4-3-1732.5-Q16-15#LOW@13.6GHz-20GHz@Pass



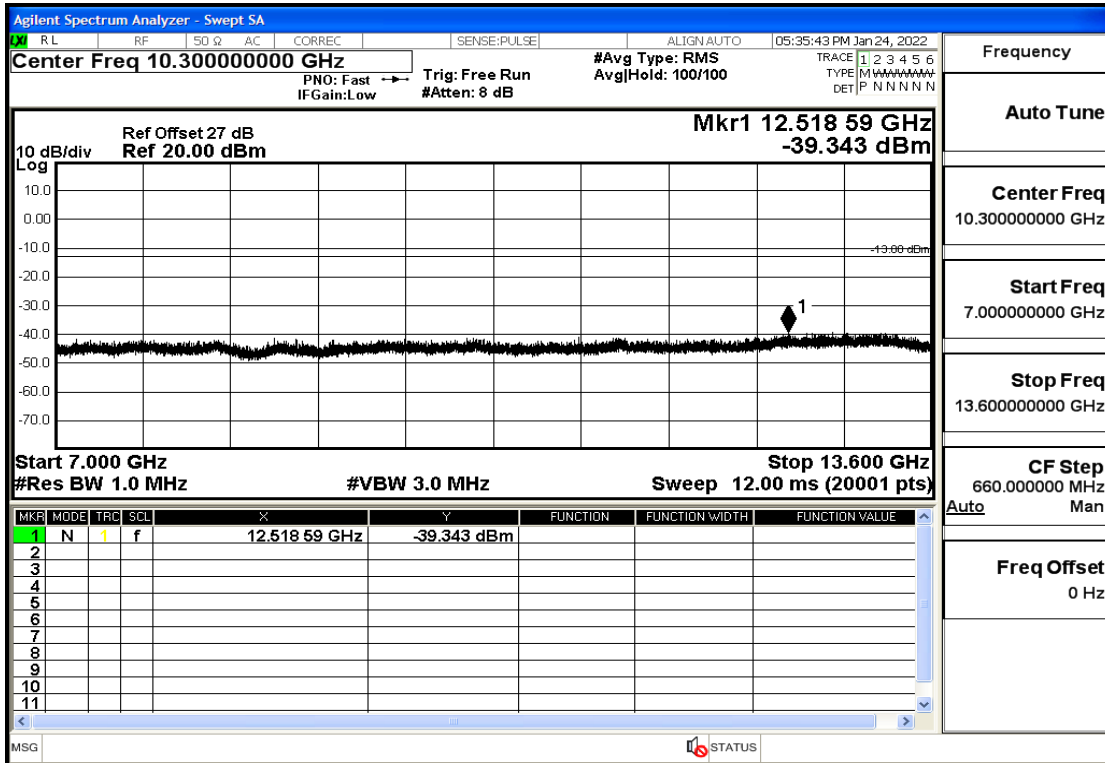
OB4-3-1753.5-Q16-15#LOW@30mHz-1GHz@Pass



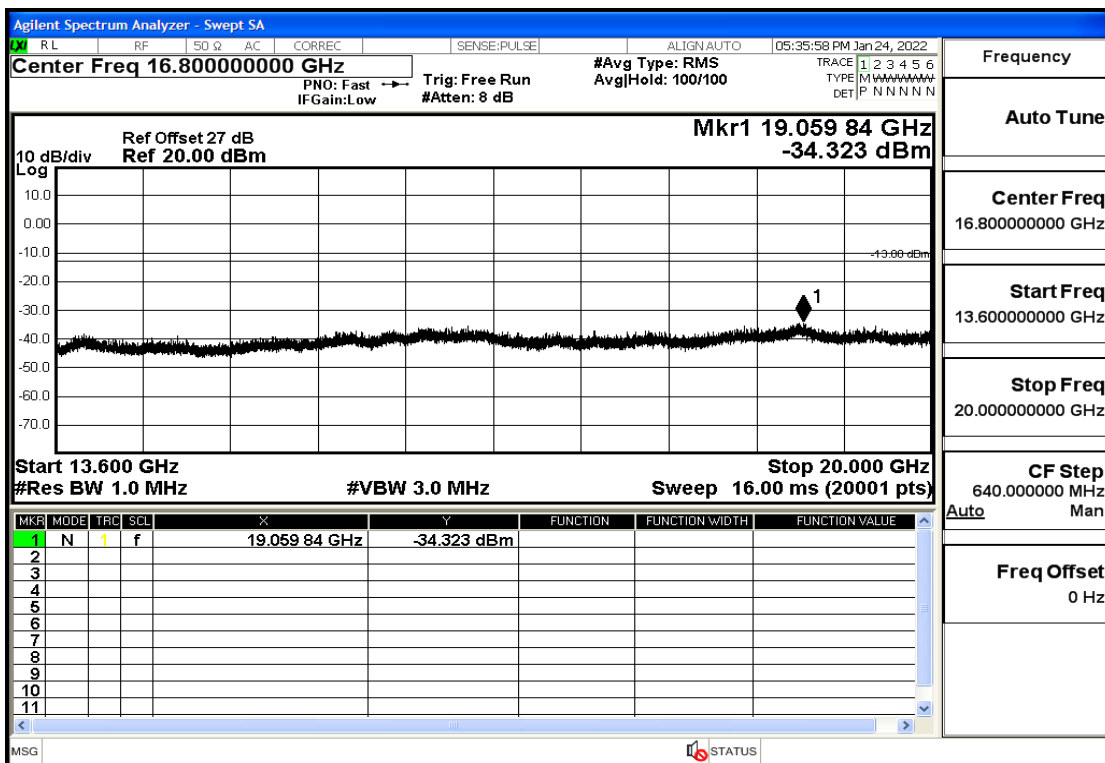
OB4-3-1753.5-Q16-15#LOW@1GHz-7GHz@Pass



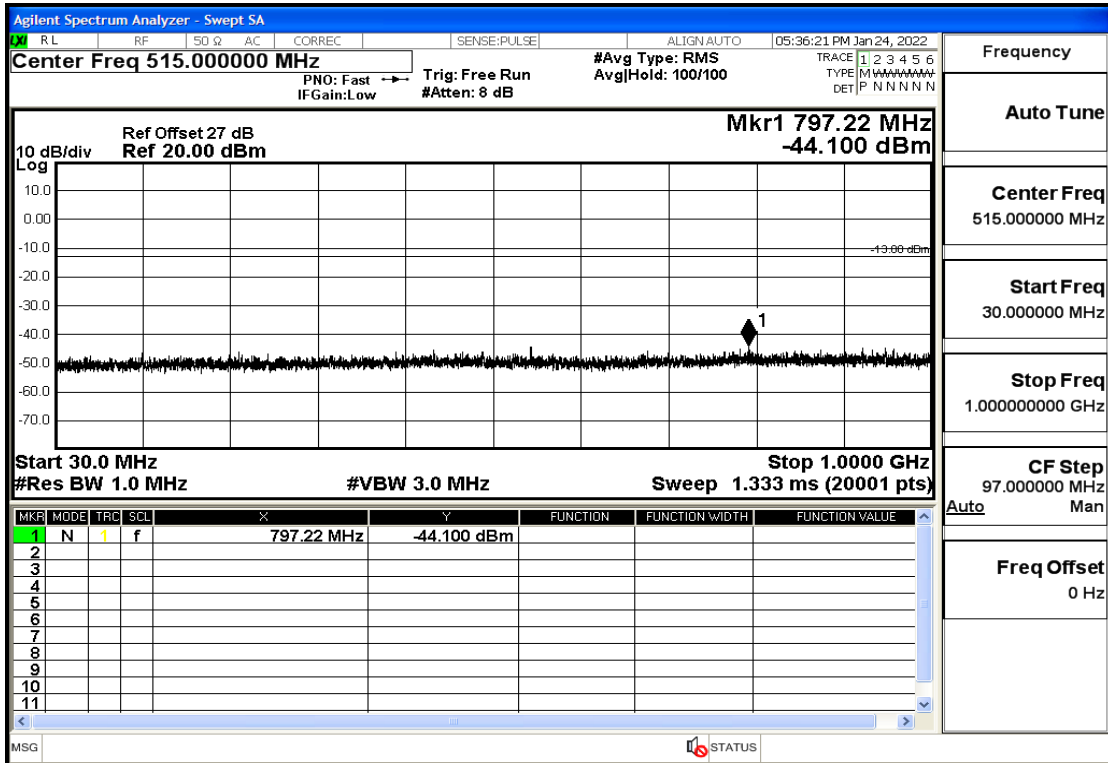
OB4-3-1753.5-Q16-15#LOW@7GHz-13.6GHz@Pass



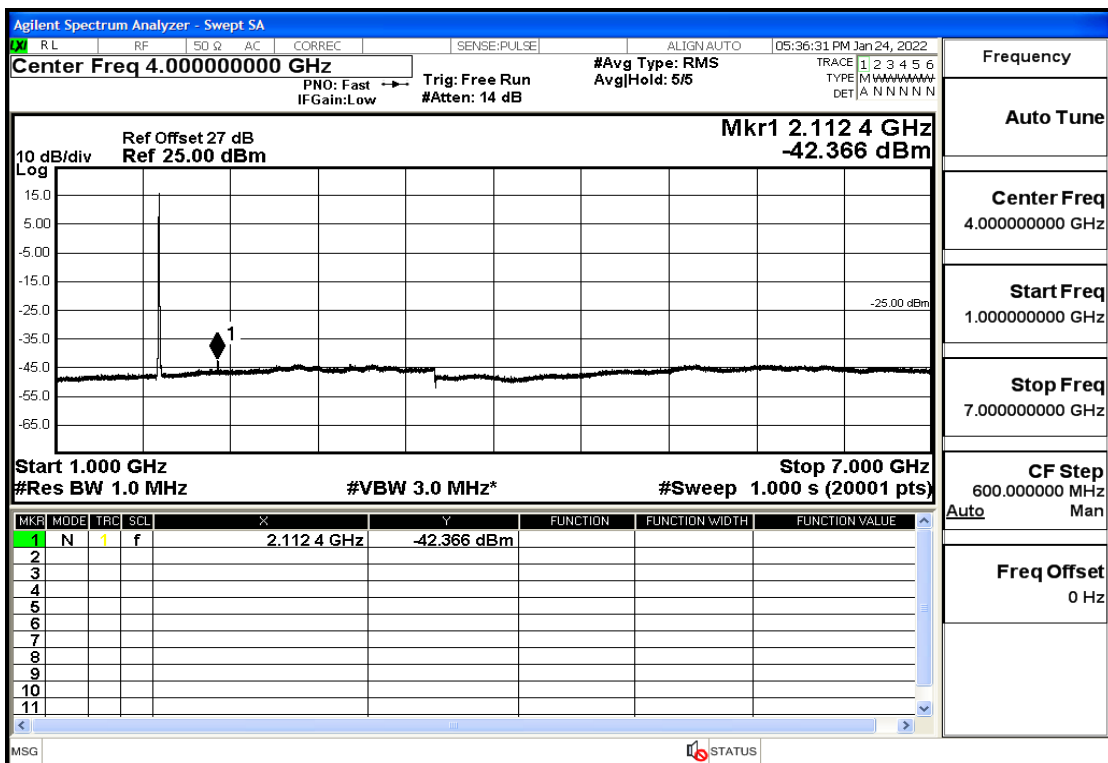
OB4-3-1753.5-Q16-15#LOW@13.6GHz-20GHz@Pass



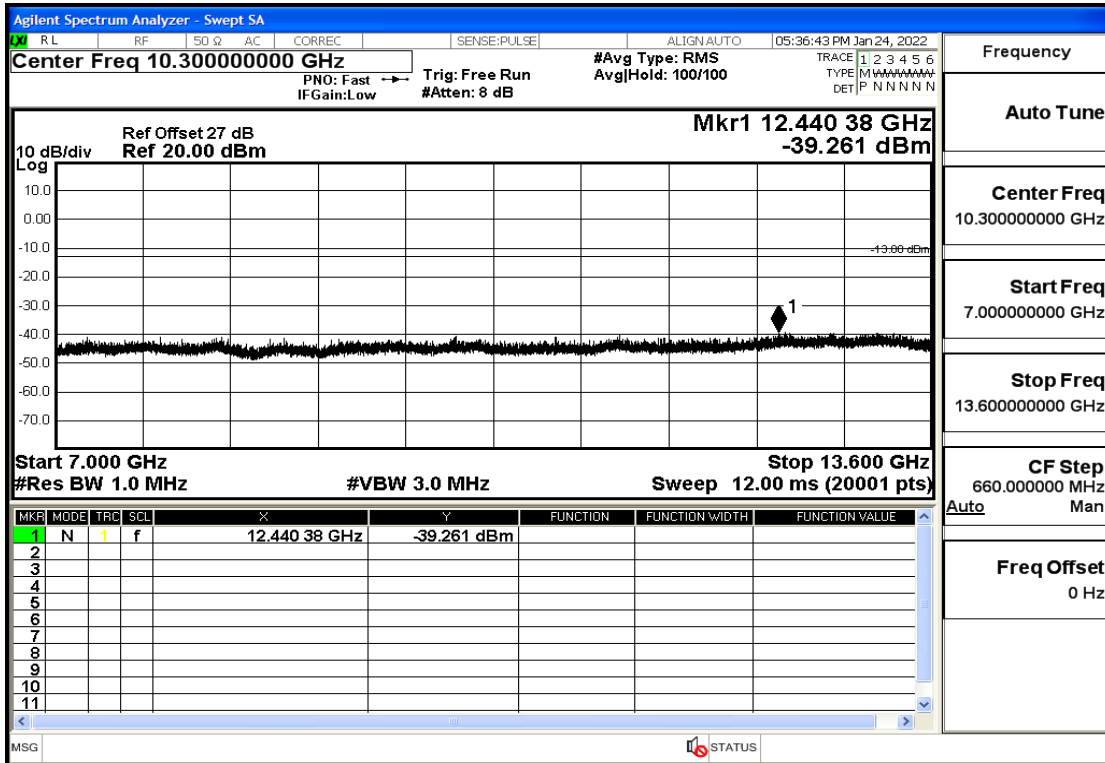
OB4-5-1712.5-Q16-25#LOW@30mHz-1GHz@Pass



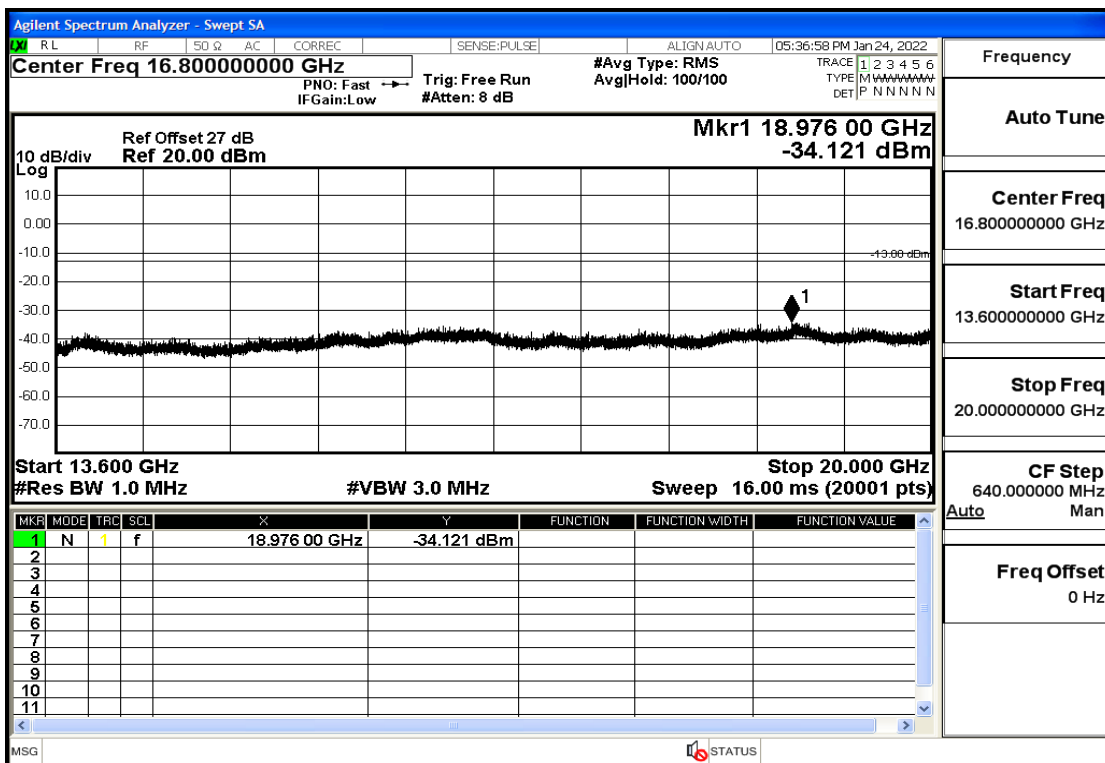
OB4-5-1712.5-Q16-25#LOW@1GHz-7GHz@Pass



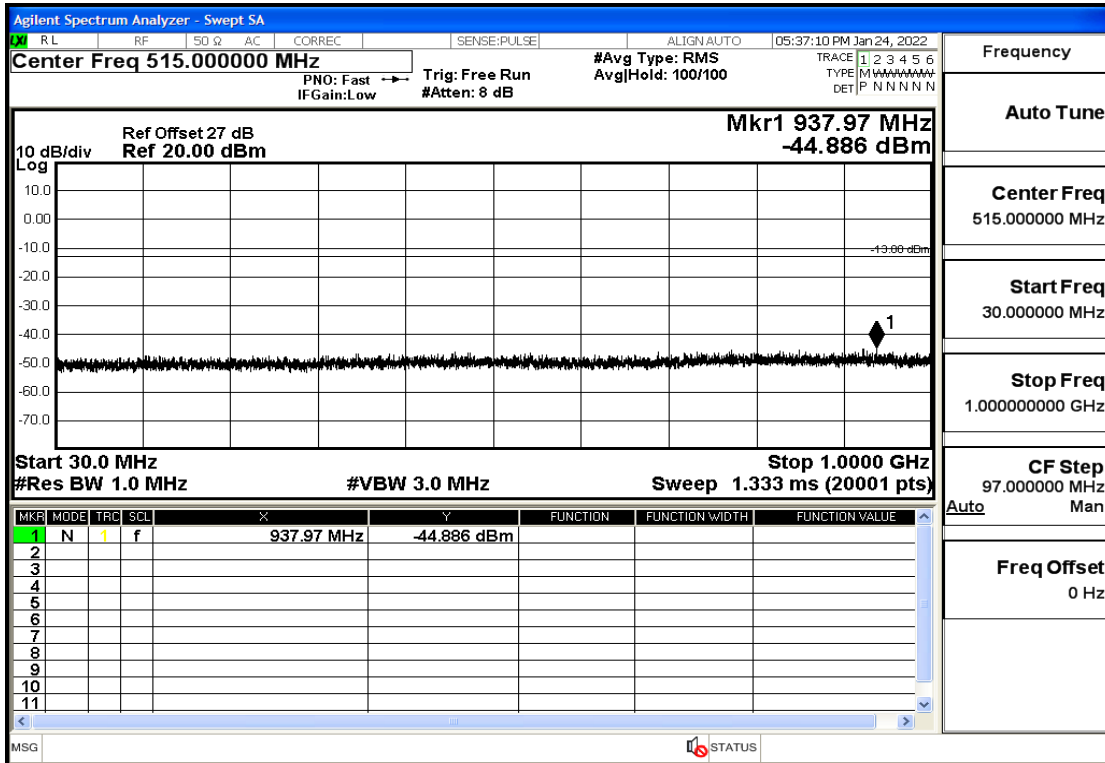
OB4-5-1712.5-Q16-25#LOW@7GHz-13.6GHz@Pass



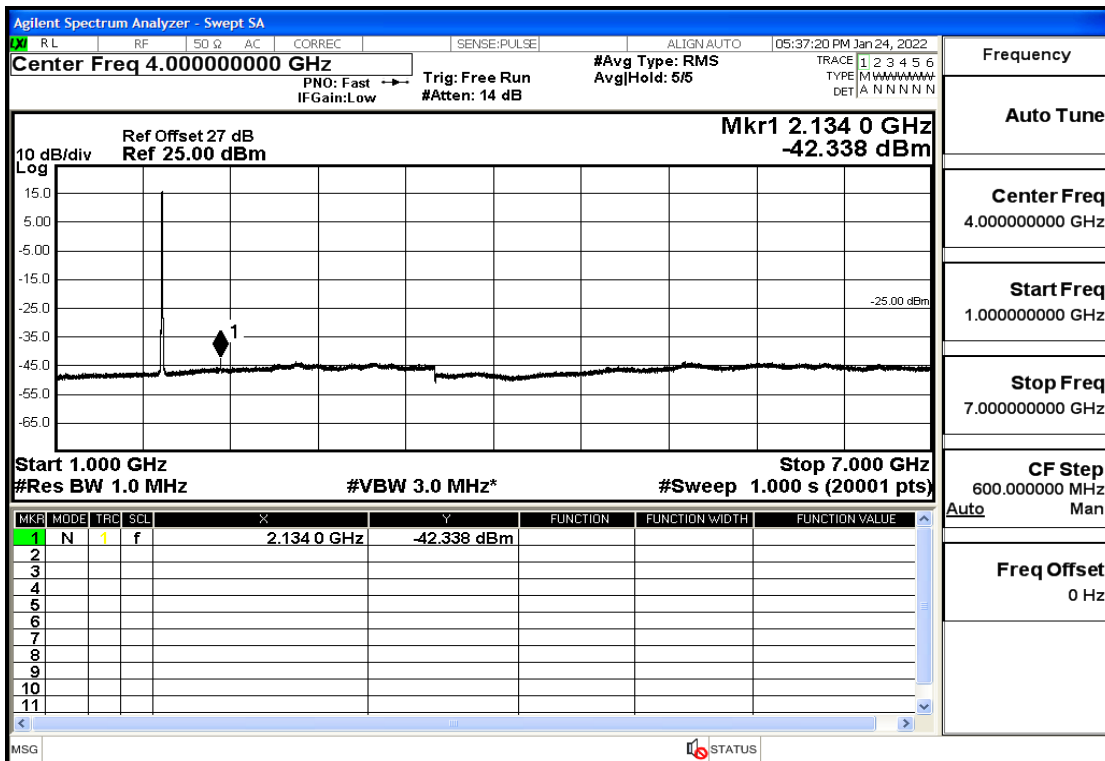
OB4-5-1712.5-Q16-25#LOW@13.6GHz-20GHz@Pass



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

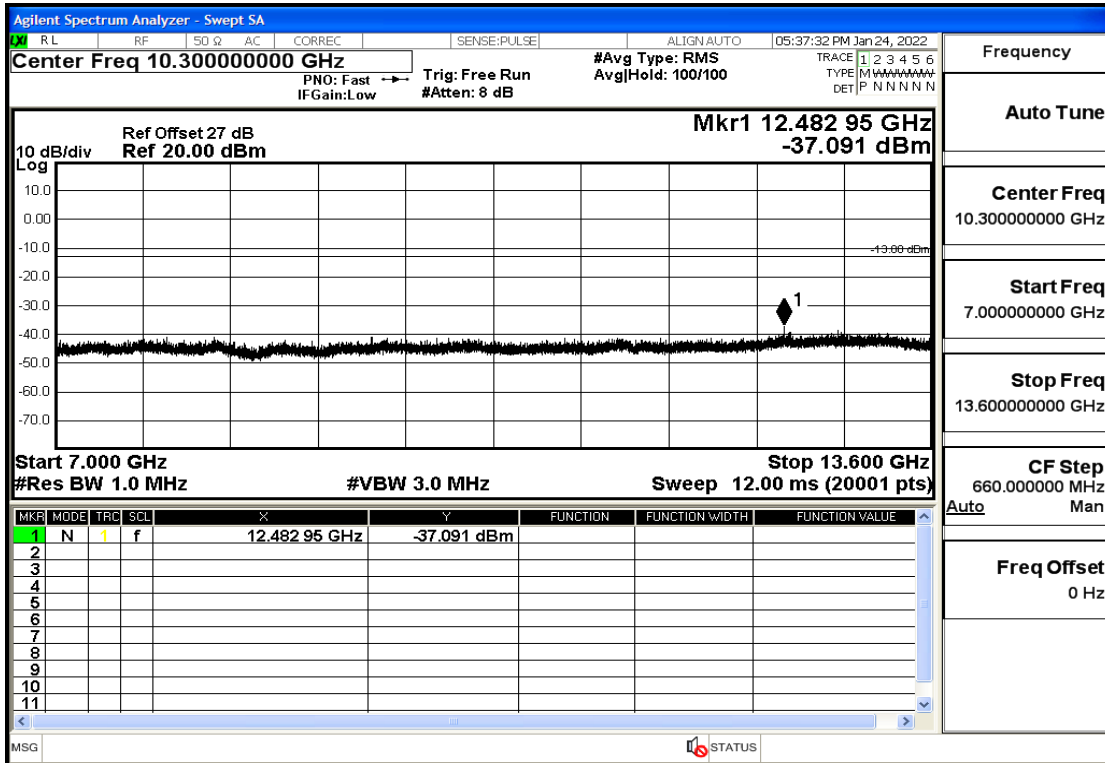


OB4-5-1732.5-Q16-25#LOW@1GHz-7GHz@Pass

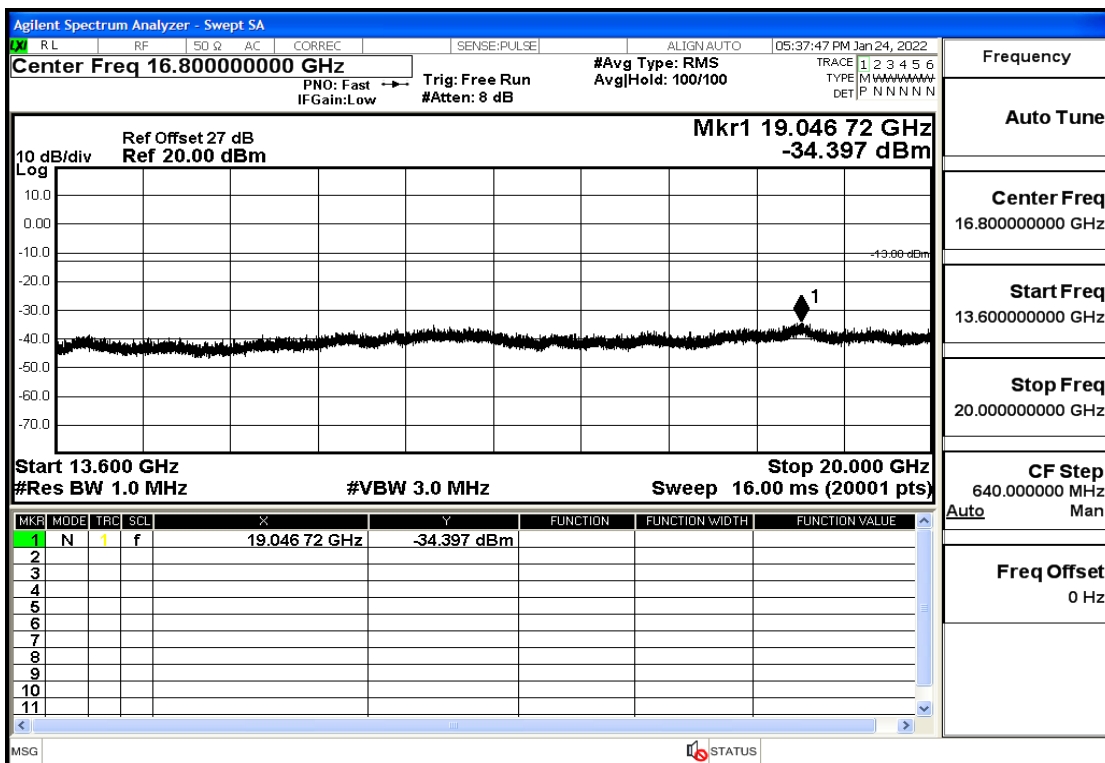




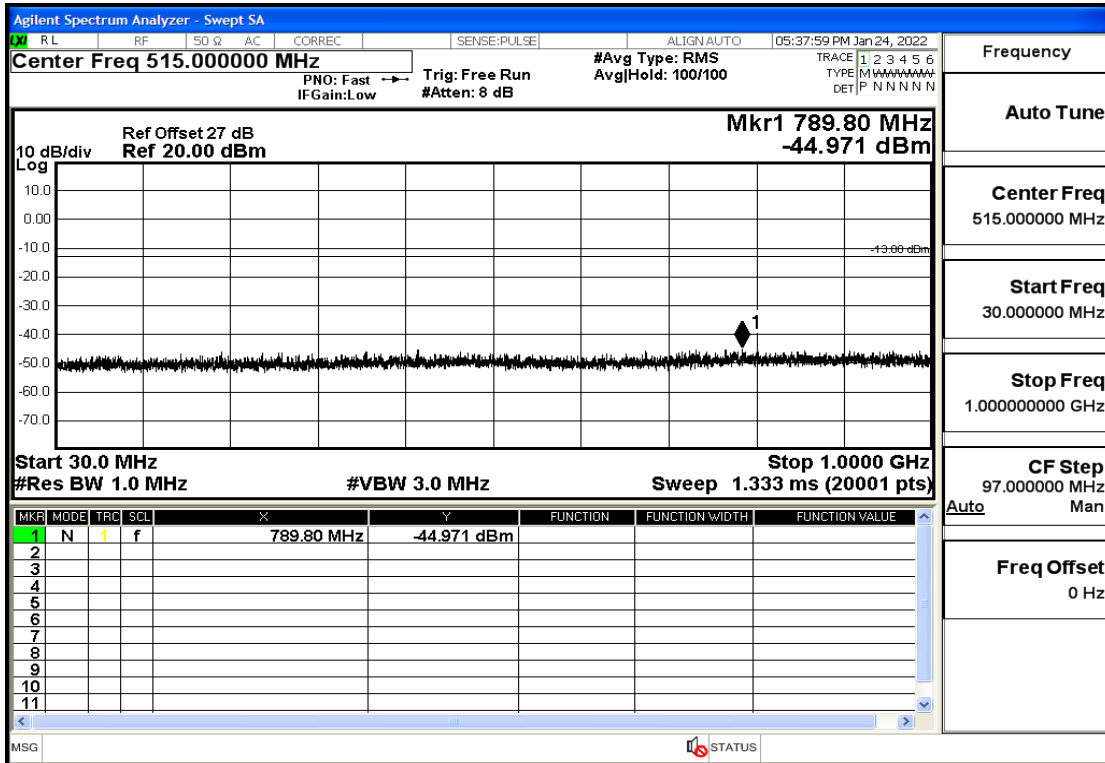
OB4-5-1732.5-Q16-25#LOW@7GHz-13.6GHz@Pass



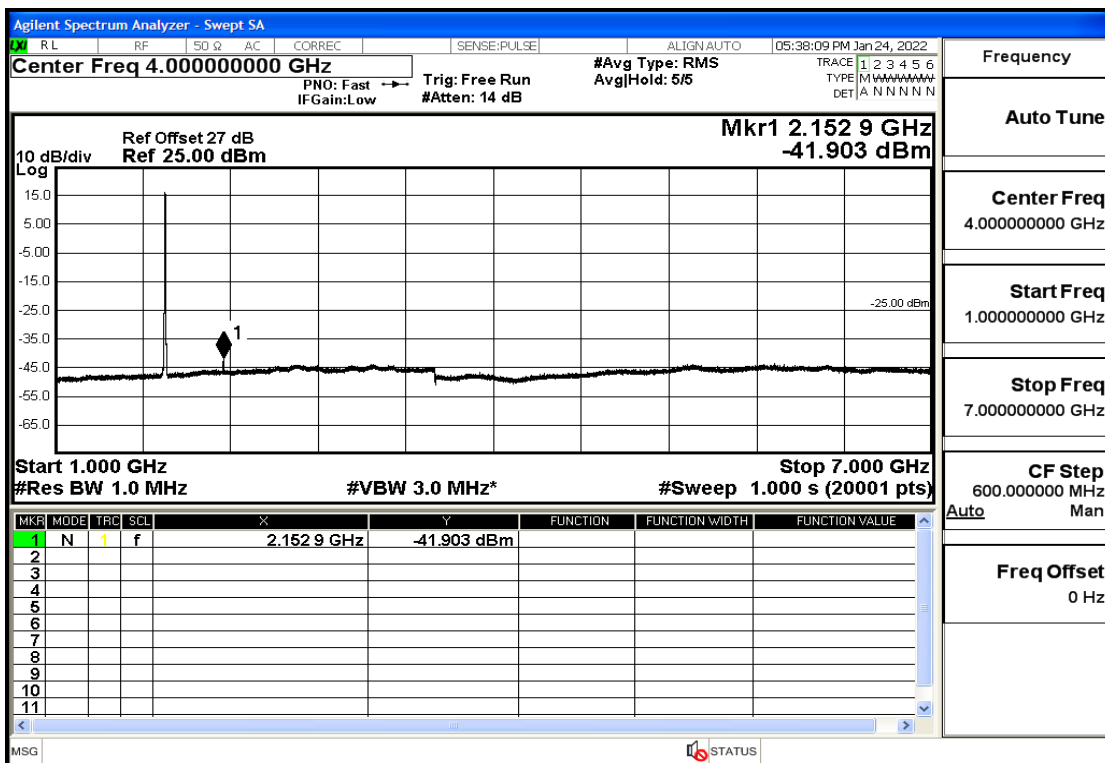
OB4-5-1732.5-Q16-25#LOW@13.6GHz-20GHz@Pass



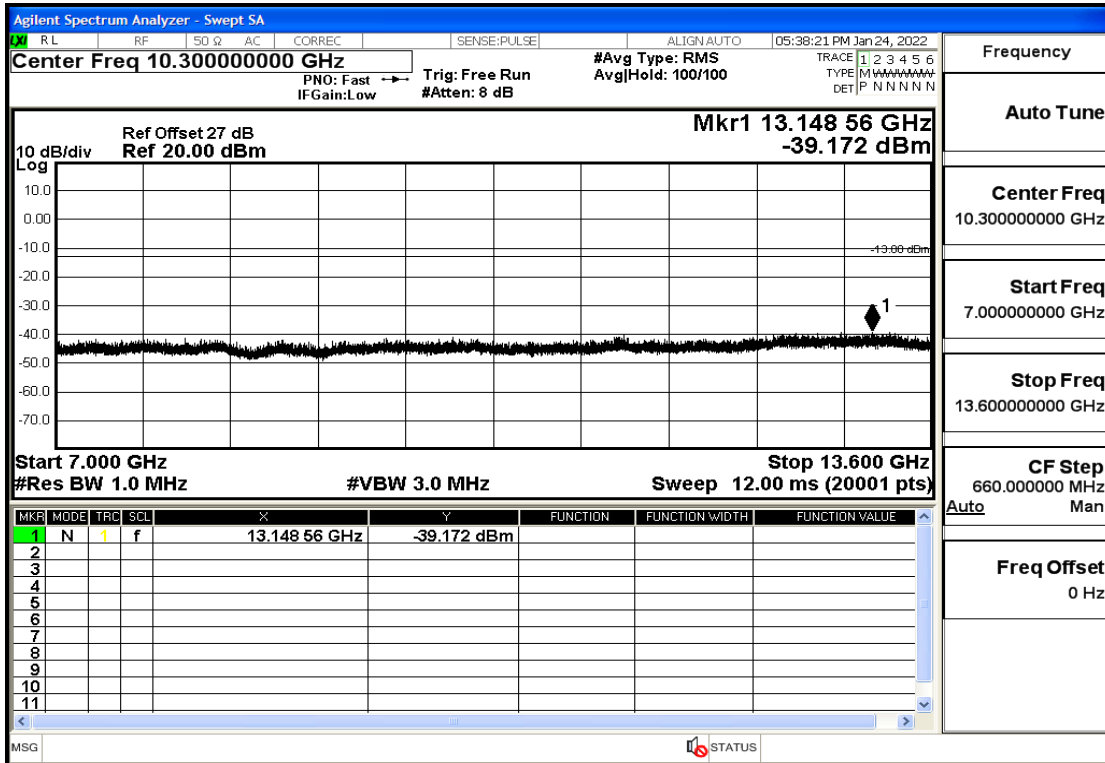
OB4-5-1752.5-Q16-25#LOW@30mHz-1GHz@Pass



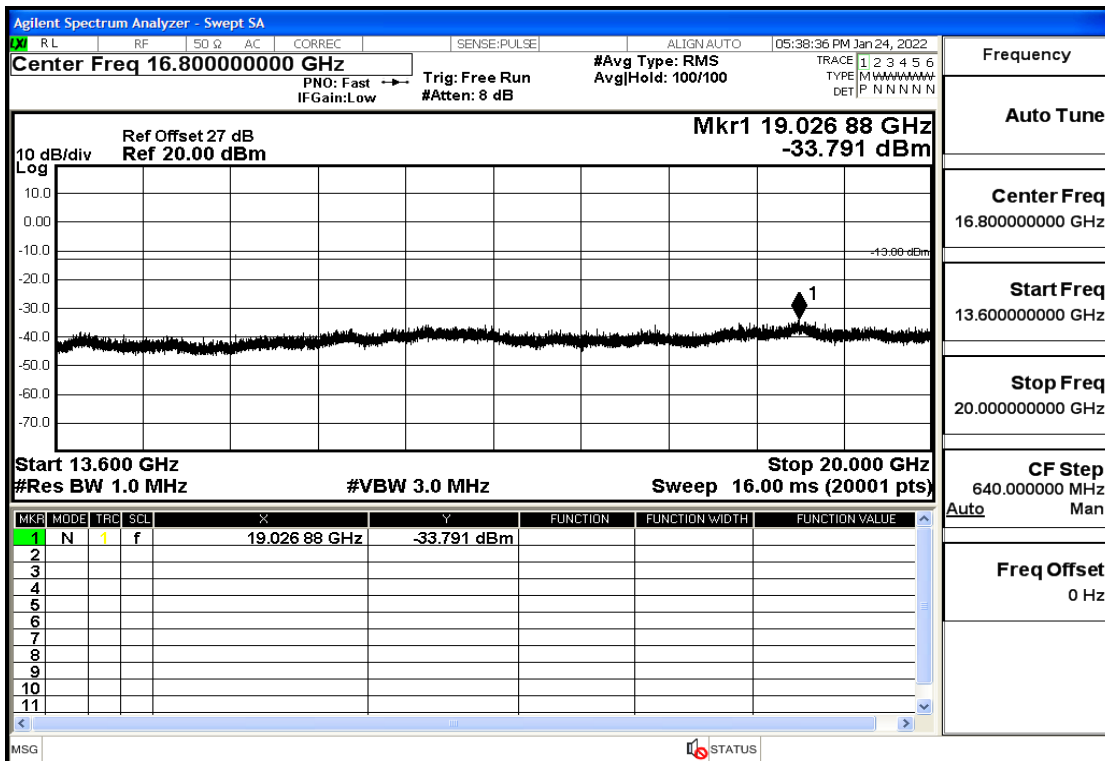
OB4-5-1752.5-Q16-25#LOW@1GHz-7GHz@Pass



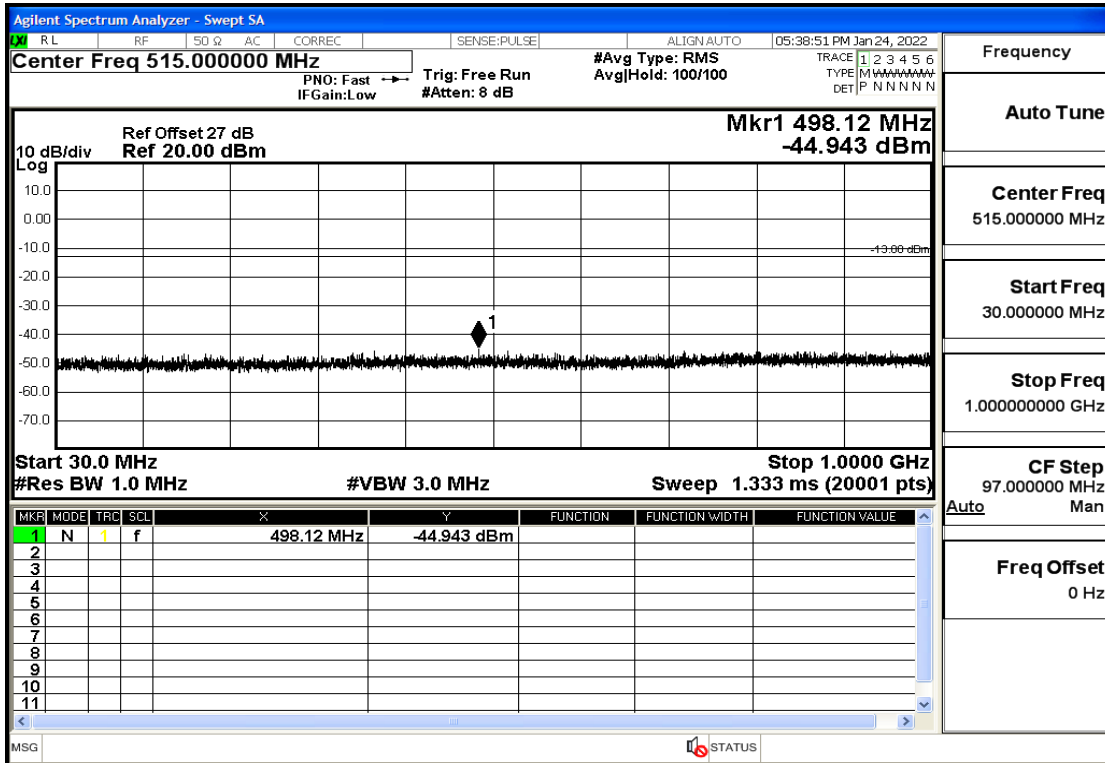
OB4-5-1752.5-Q16-25#LOW@7GHz-13.6GHz@Pass



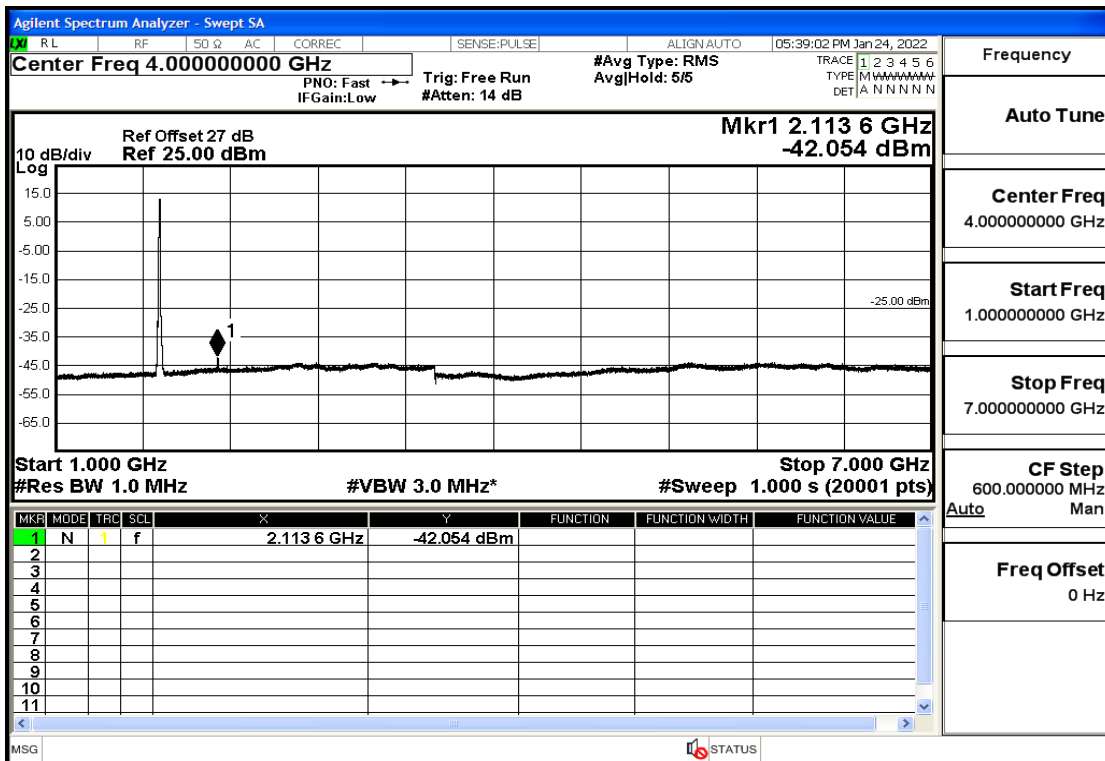
OB4-5-1752.5-Q16-25#LOW@13.6GHz-20GHz@Pass



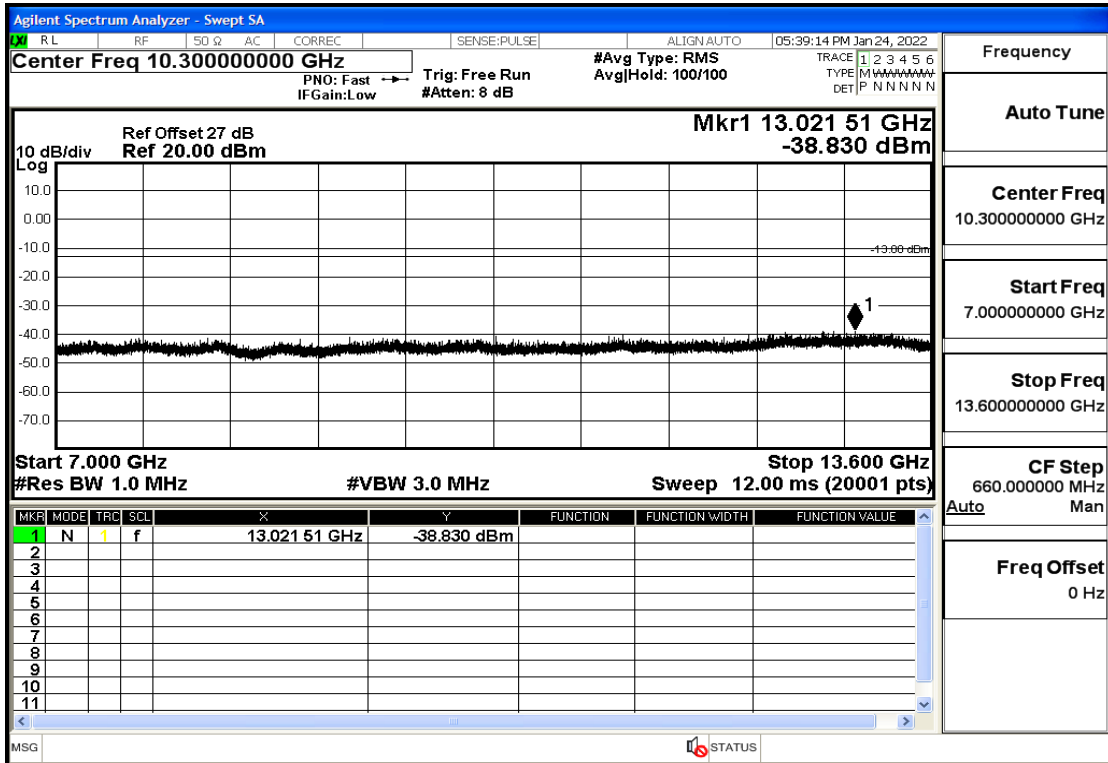
OB4-10-1715-Q16-50#LOW@30mHz-1GHz@Pass



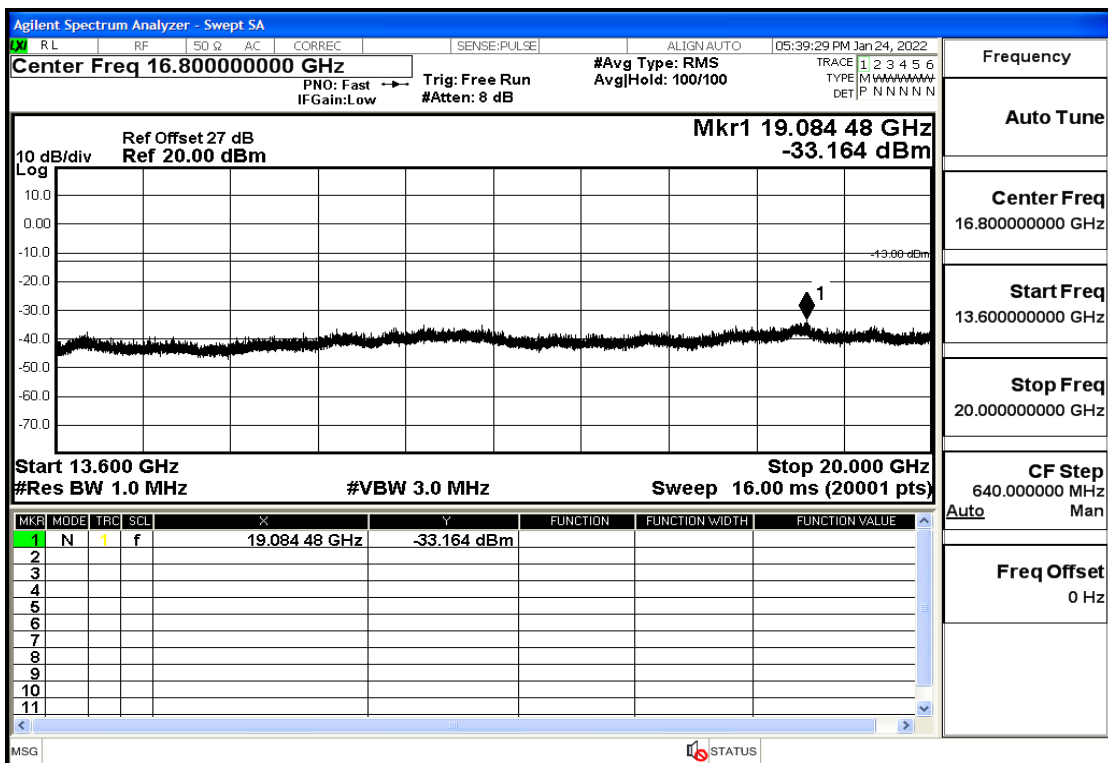
OB4-10-1715-Q16-50#LOW@1GHz-7GHz@Pass



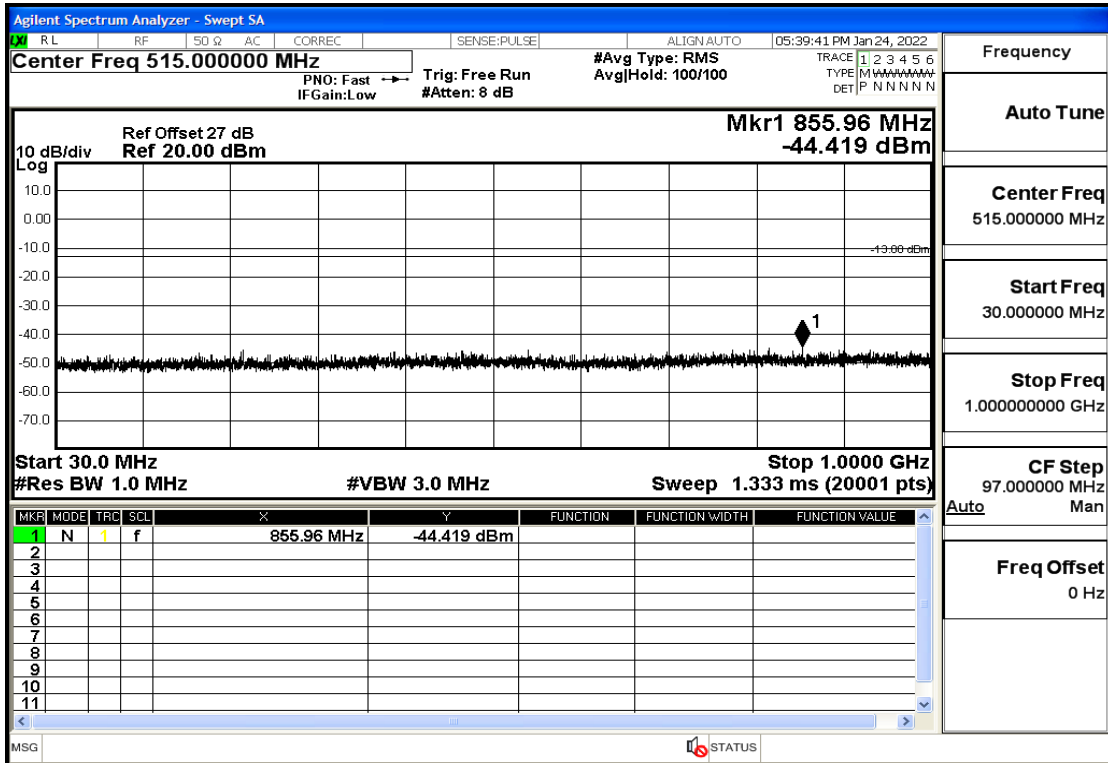
OB4-10-1715-Q16-50#LOW@7GHz-13.6GHz@Pass



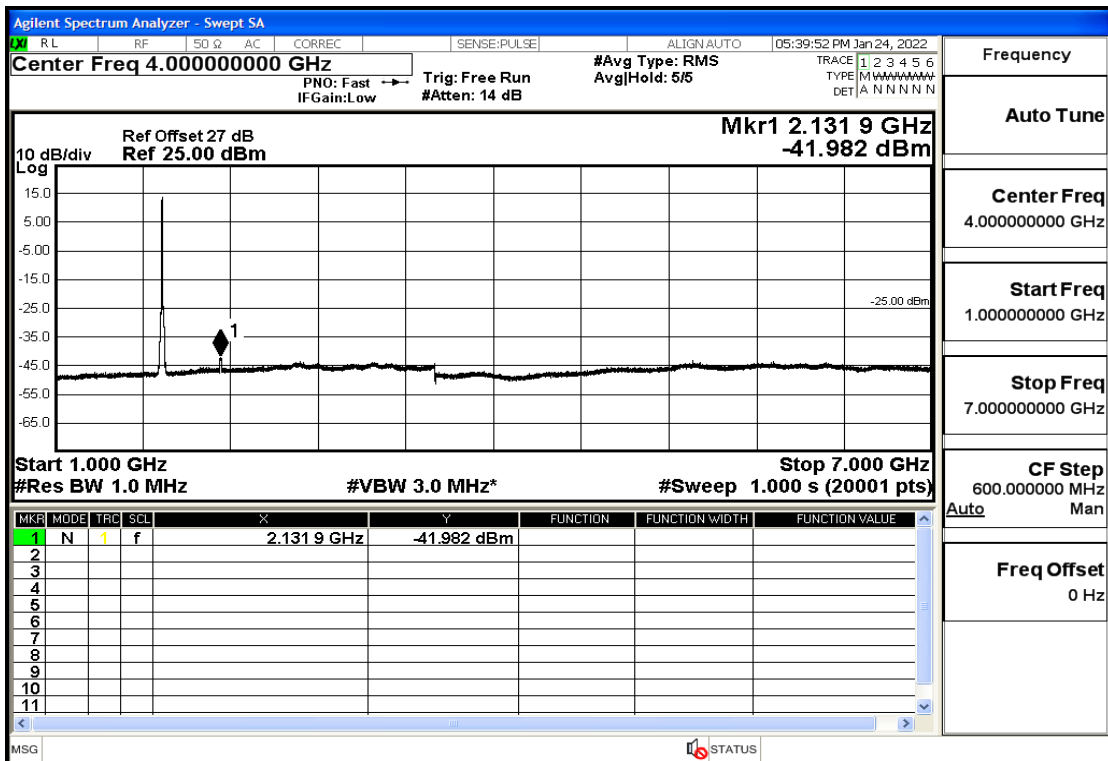
OB4-10-1715-Q16-50#LOW@13.6GHz-20GHz@Pass



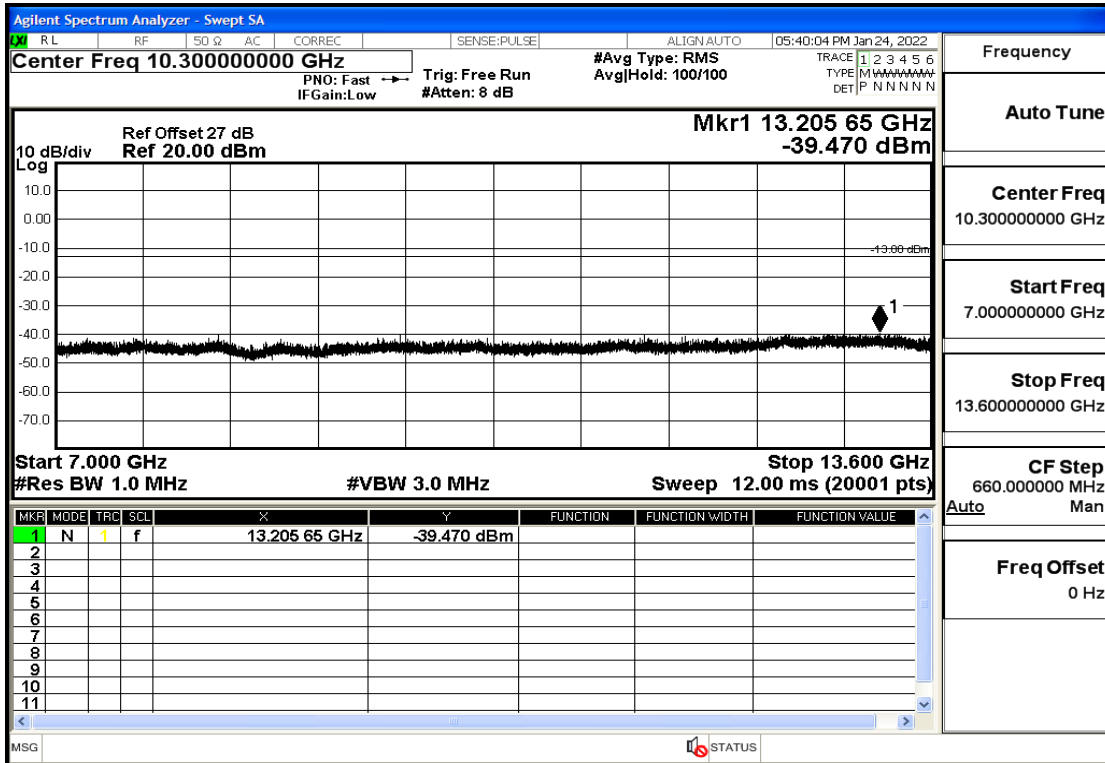
OB4-10-1732.5-Q16-50#LOW@30mHz-1GHz@Pass



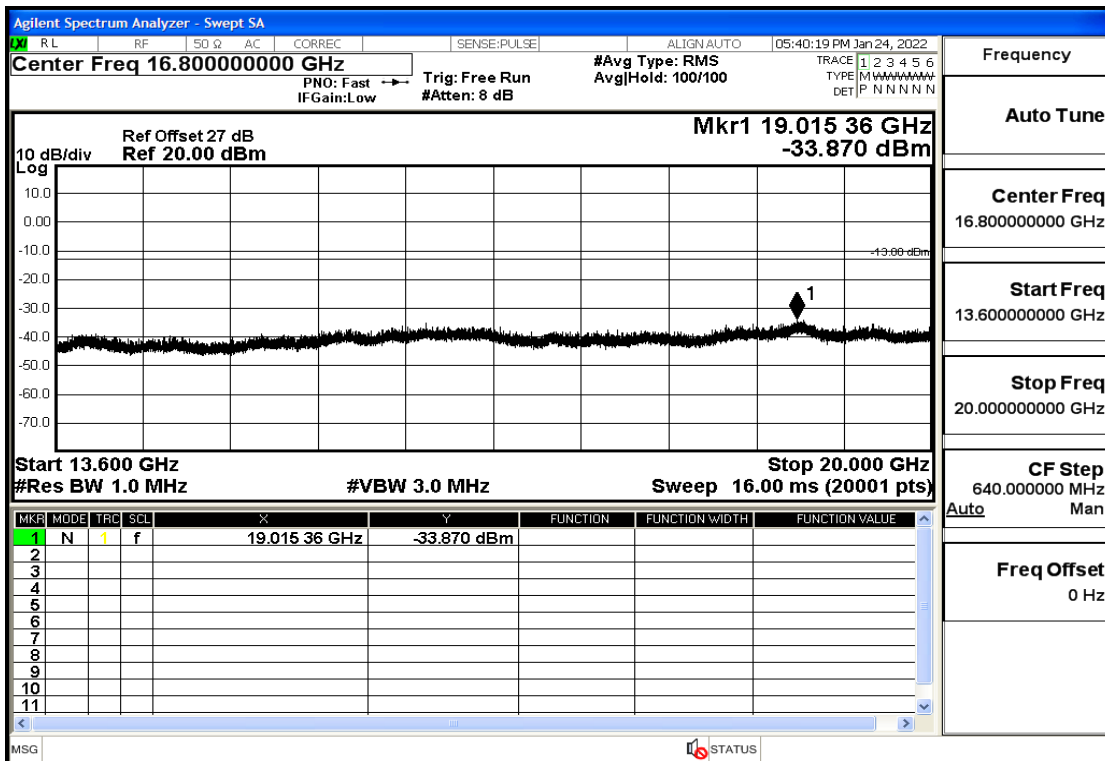
OB4-10-1732.5-Q16-50#LOW@1GHz-7GHz@Pass



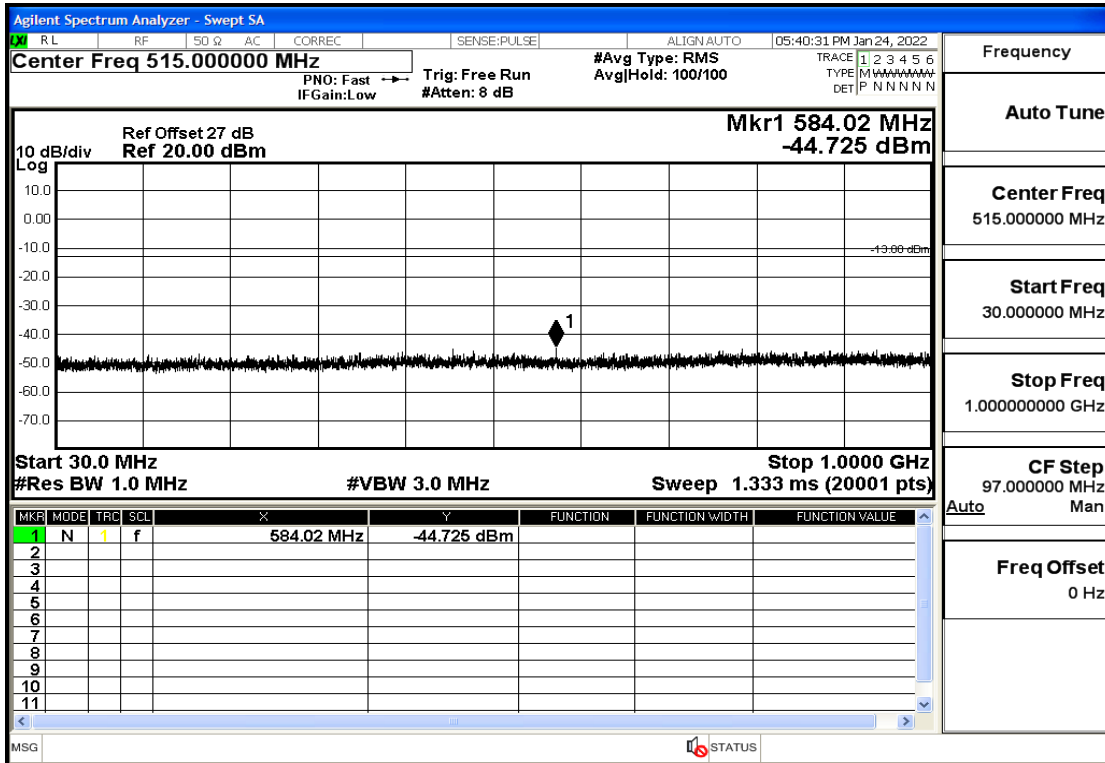
OB4-10-1732.5-Q16-50#LOW@7GHz-13.6GHz@Pass



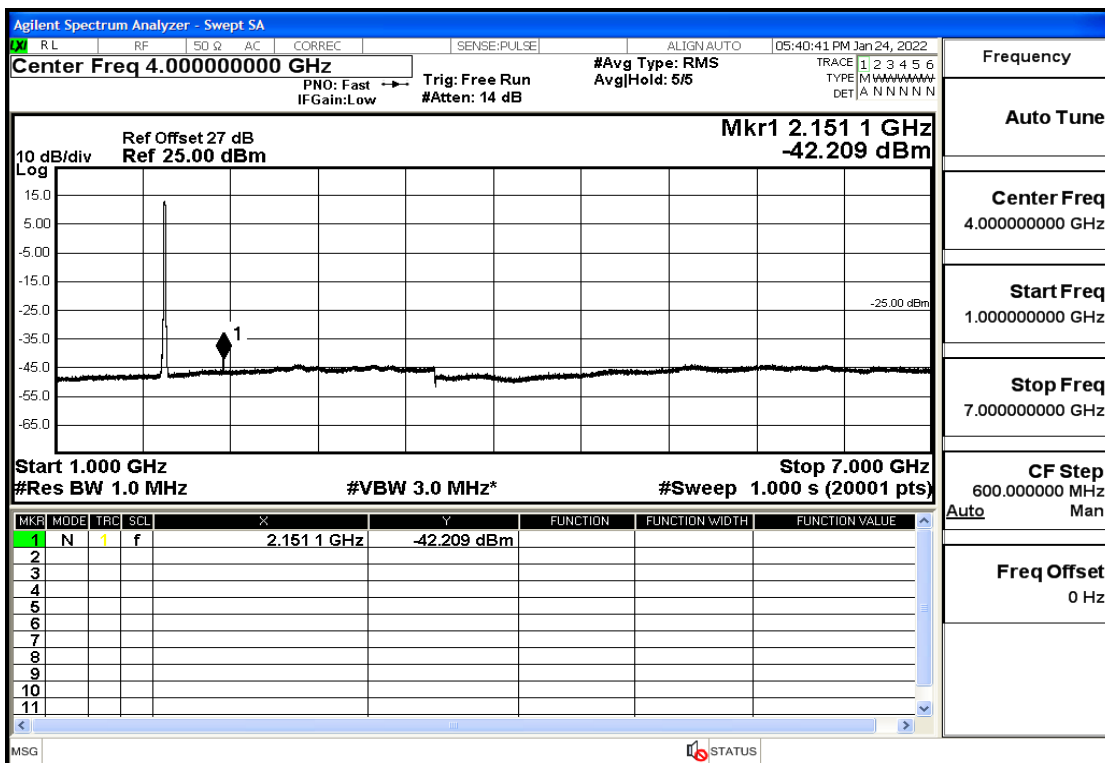
OB4-10-1732.5-Q16-50#LOW@13.6GHz-20GHz@Pass



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

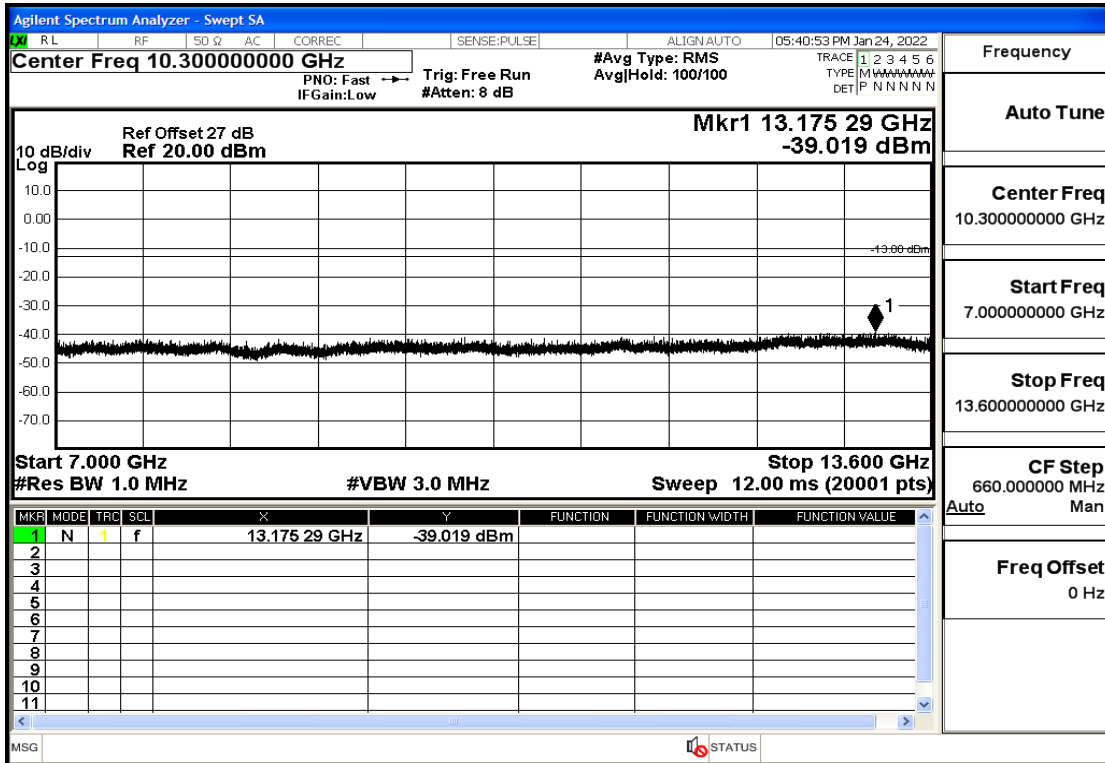


OB4-10-1750-Q16-50#LOW@1GHz-7GHz@Pass

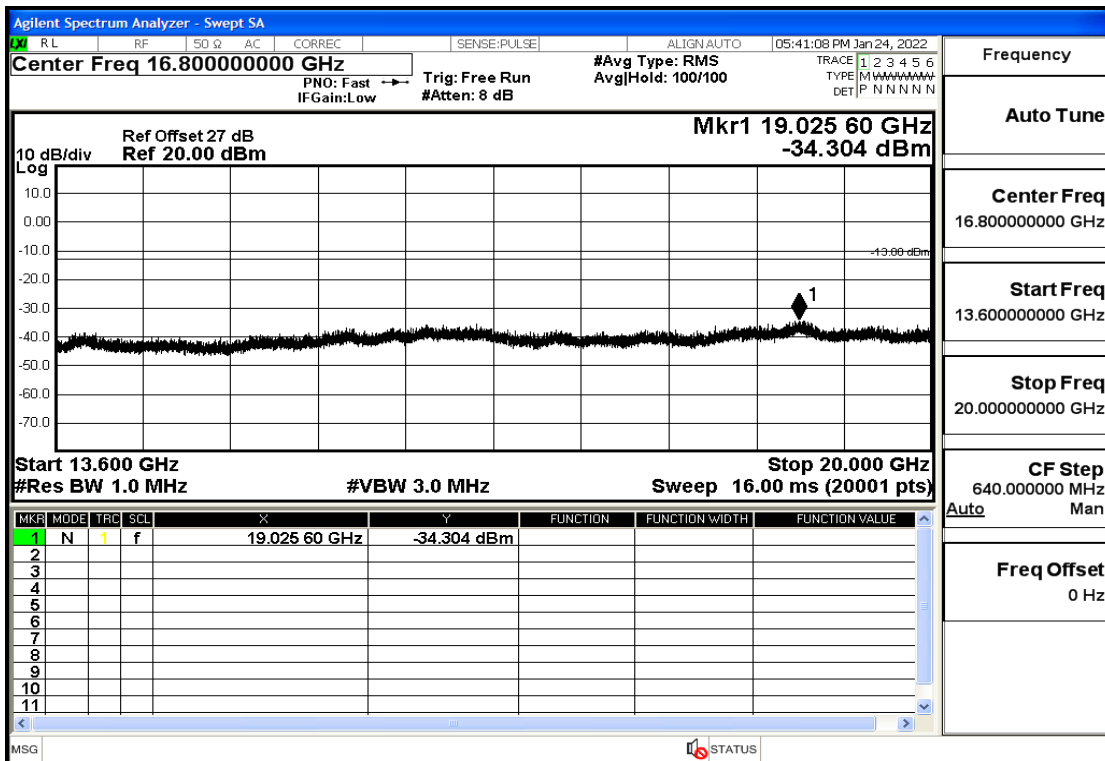




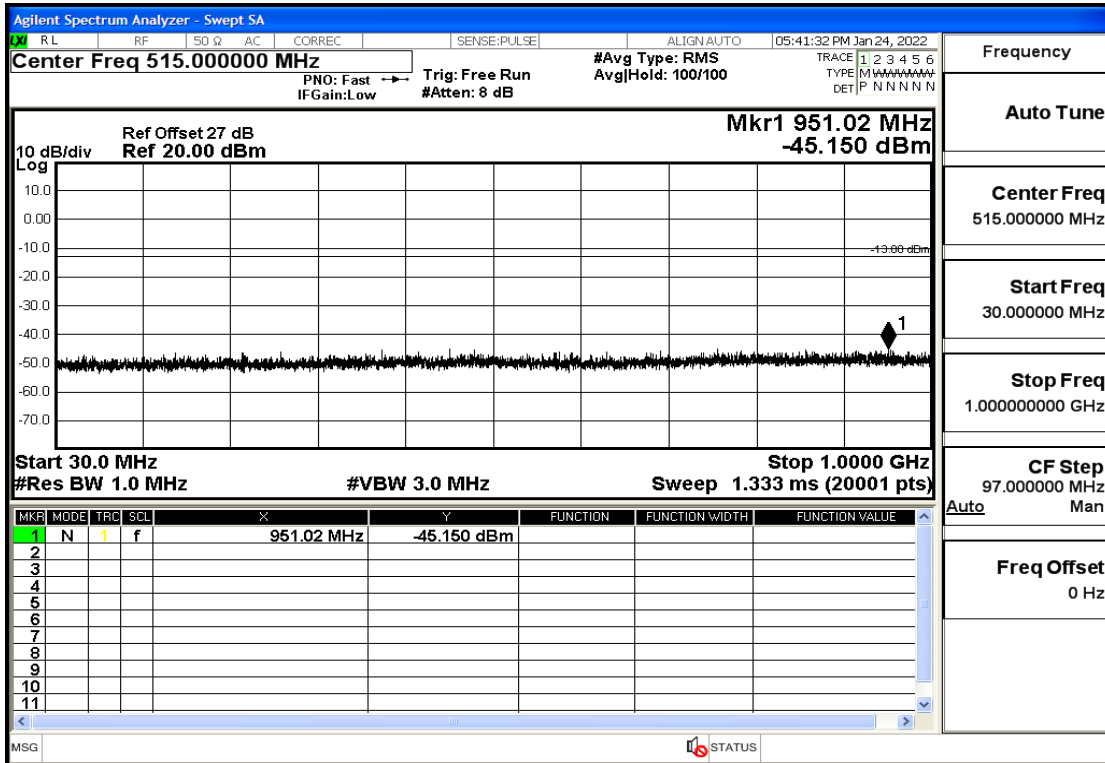
OB4-10-1750-Q16-50#LOW@7GHz-13.6GHz@Pass



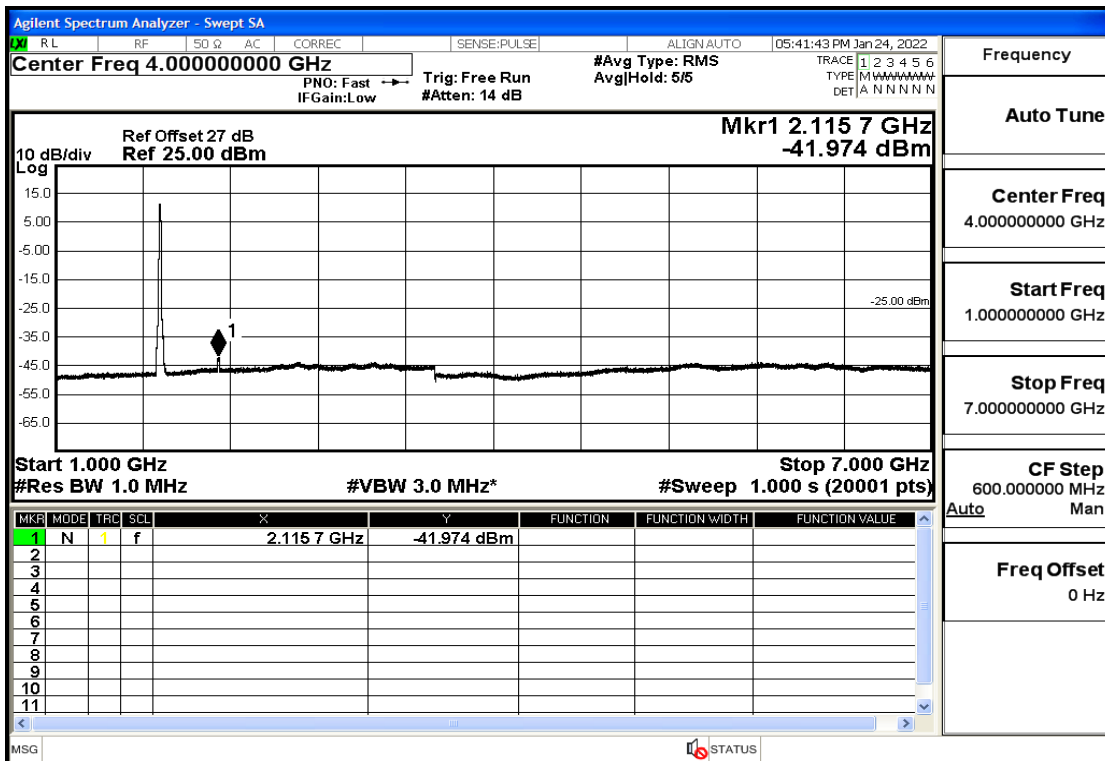
OB4-10-1750-Q16-50#LOW@13.6GHz-20GHz@Pass



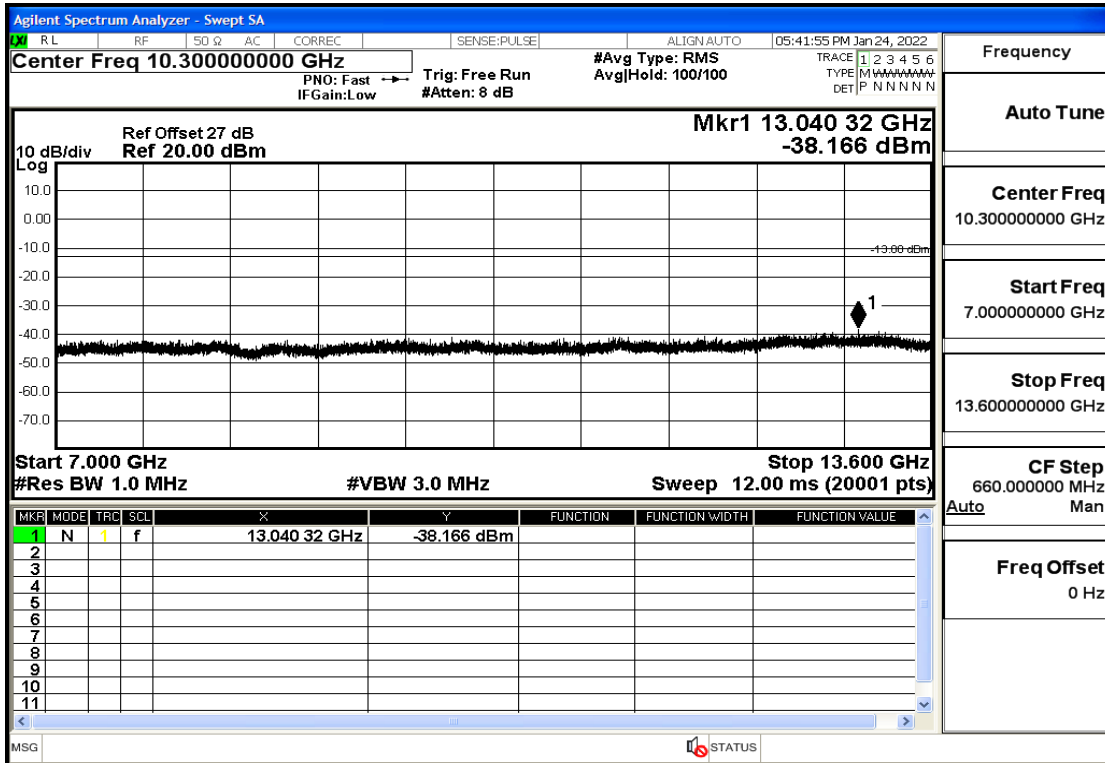
OB4-15-1717.5-Q16-75#LOW@30mHz-1GHz@Pass



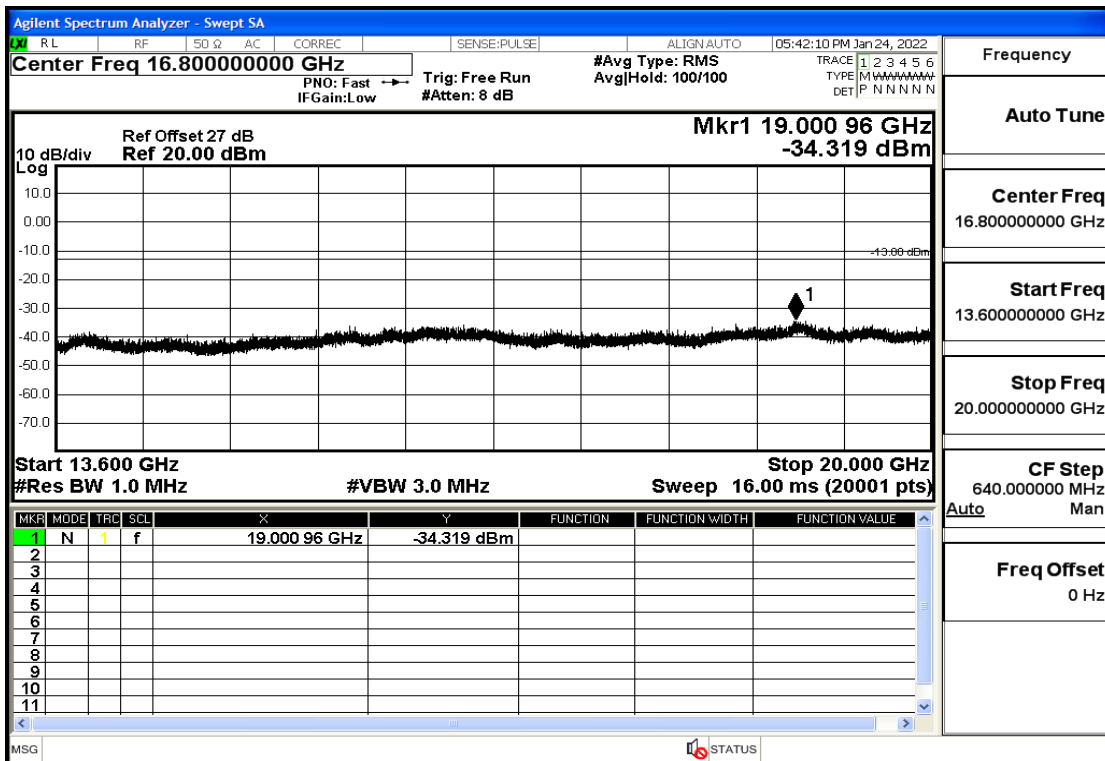
OB4-15-1717.5-Q16-75#LOW@1GHz-7GHz@Pass



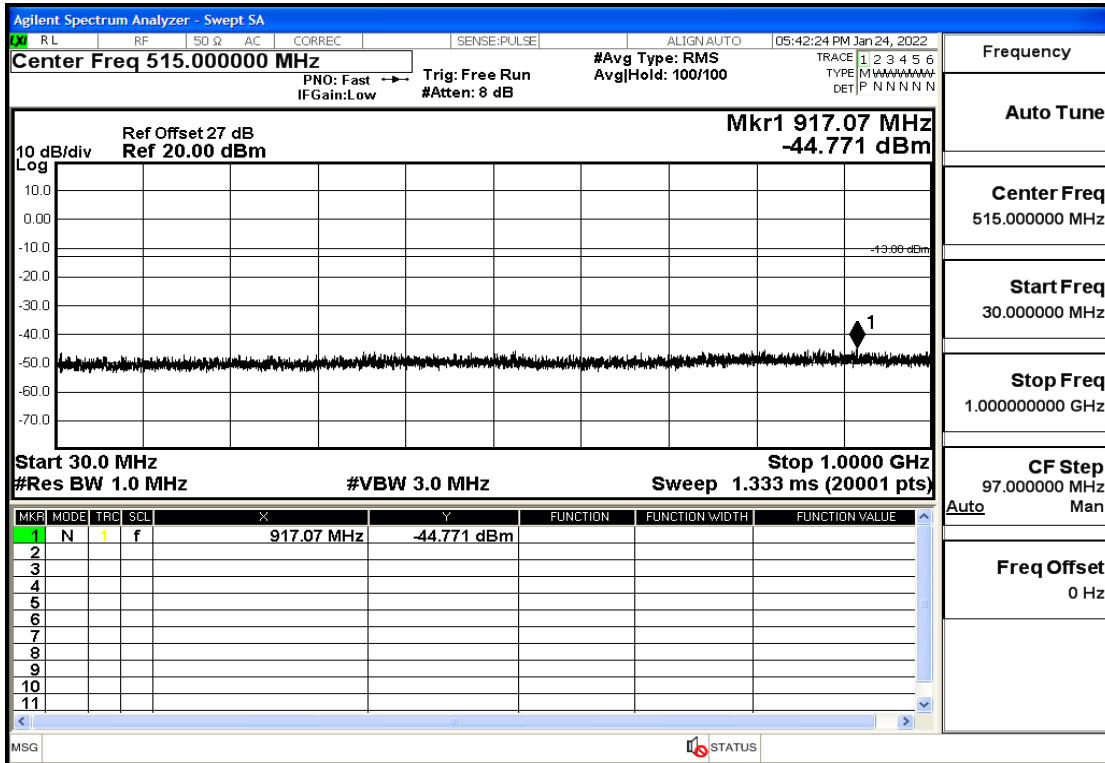
OB4-15-1717.5-Q16-75#LOW@7GHz-13.6GHz@Pass



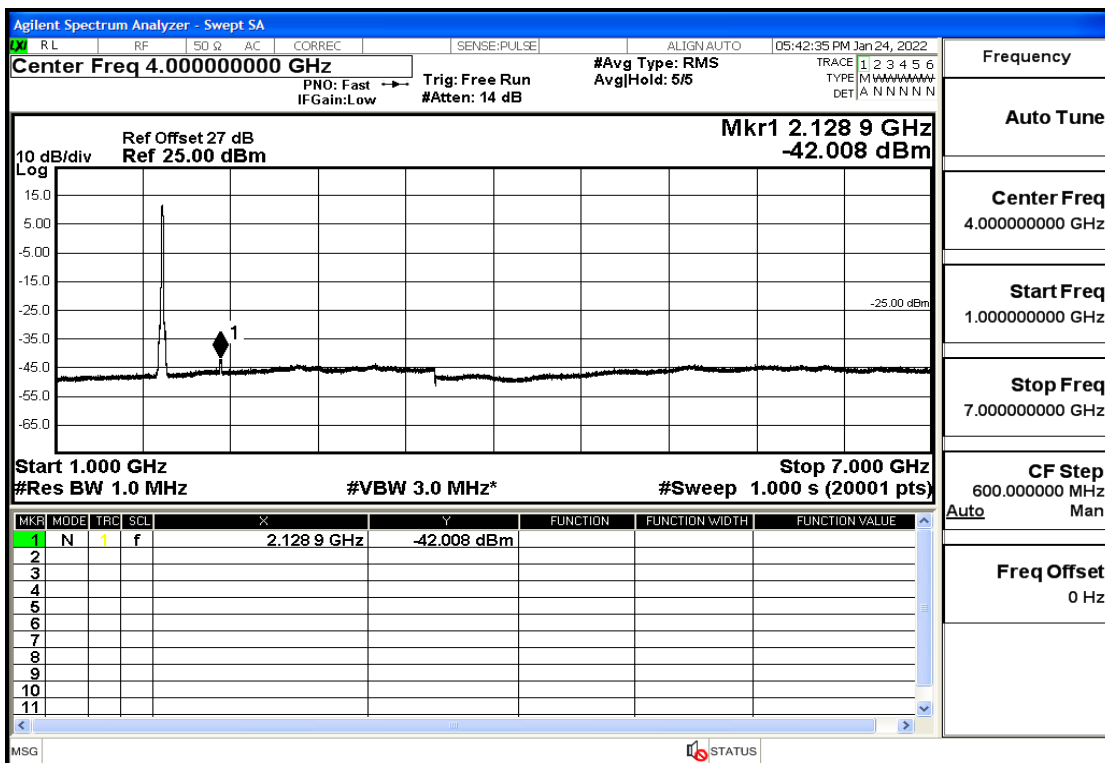
OB4-15-1717.5-Q16-75#LOW@13.6GHz-20GHz@Pass



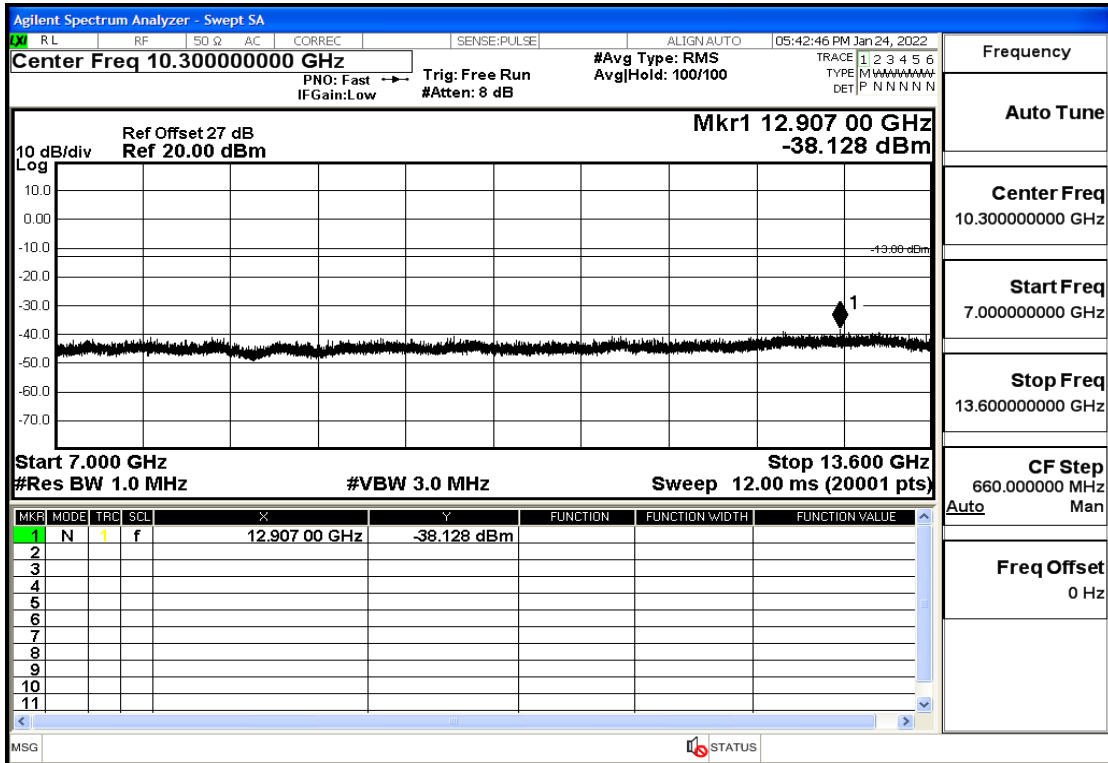
OB4-15-1732.5-Q16-75#LOW@30mHz-1GHz@Pass



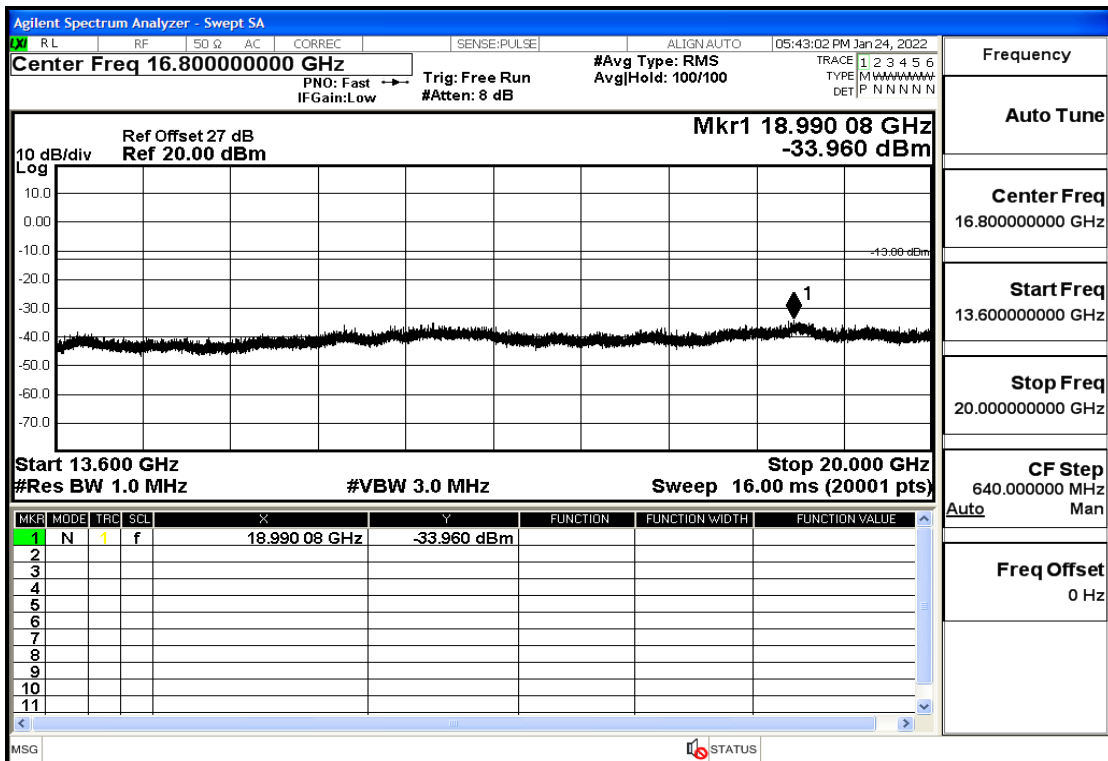
OB4-15-1732.5-Q16-75#LOW@1GHz-7GHz@Pass



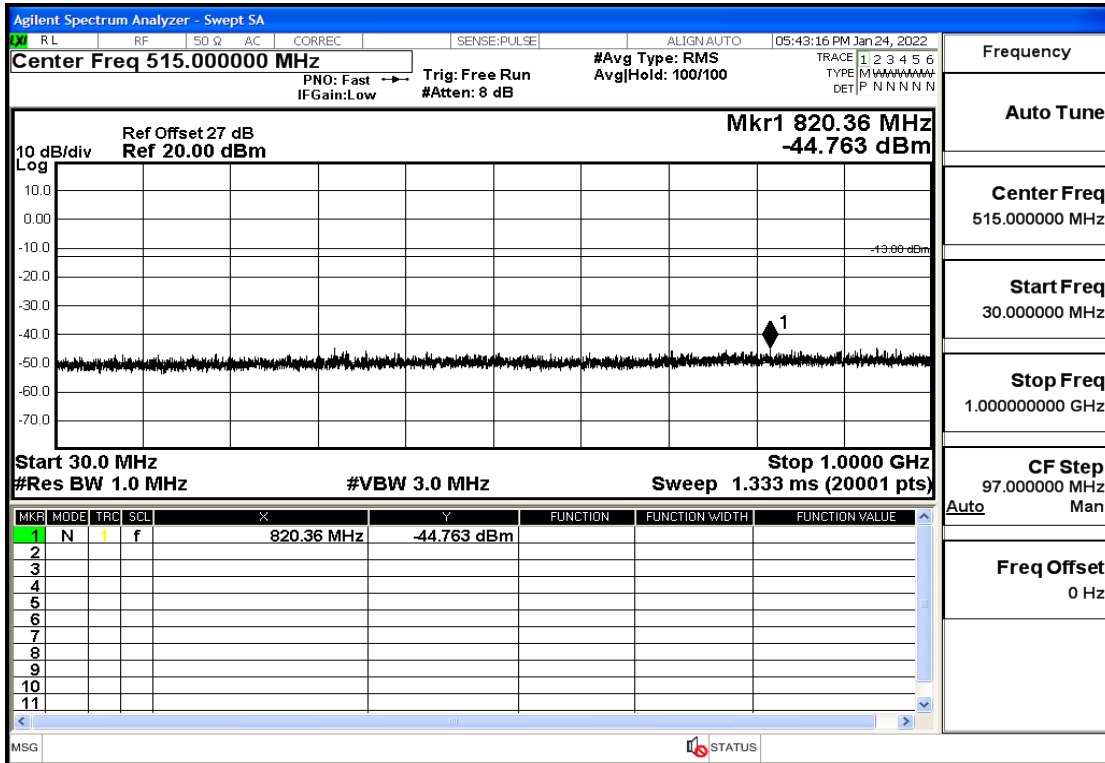
OB4-15-1732.5-Q16-75#LOW@7GHz-13.6GHz@Pass



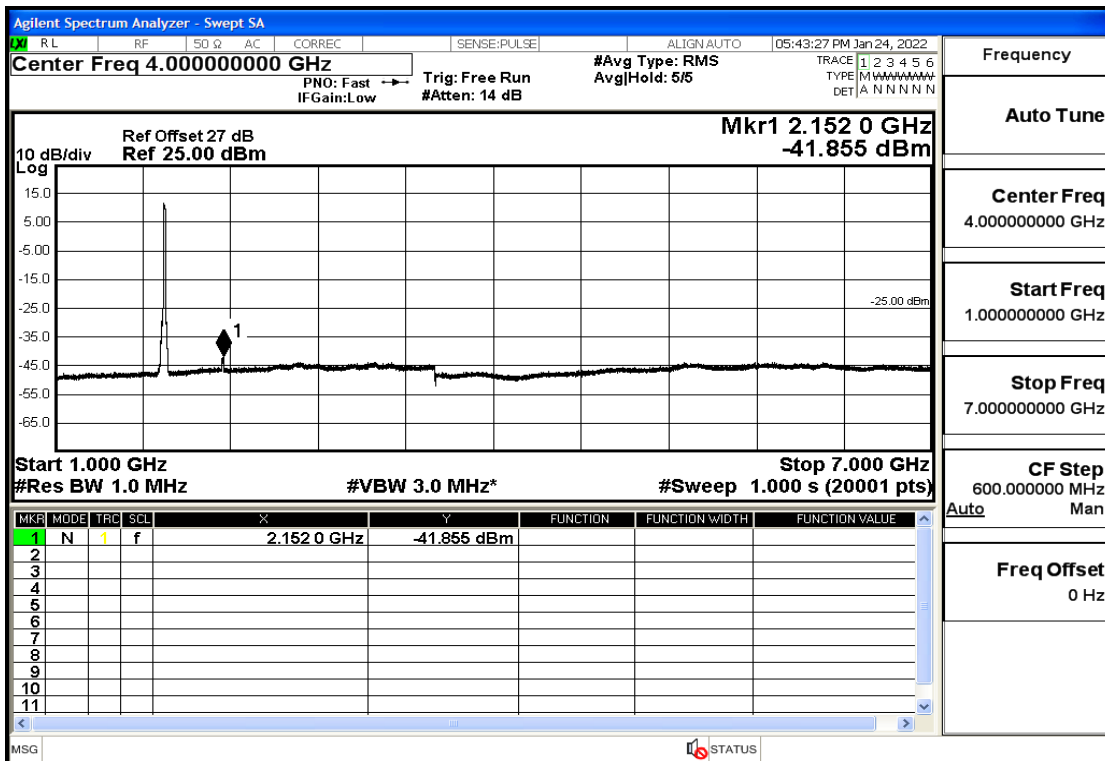
OB4-15-1732.5-Q16-75#LOW@13.6GHz-20GHz@Pass



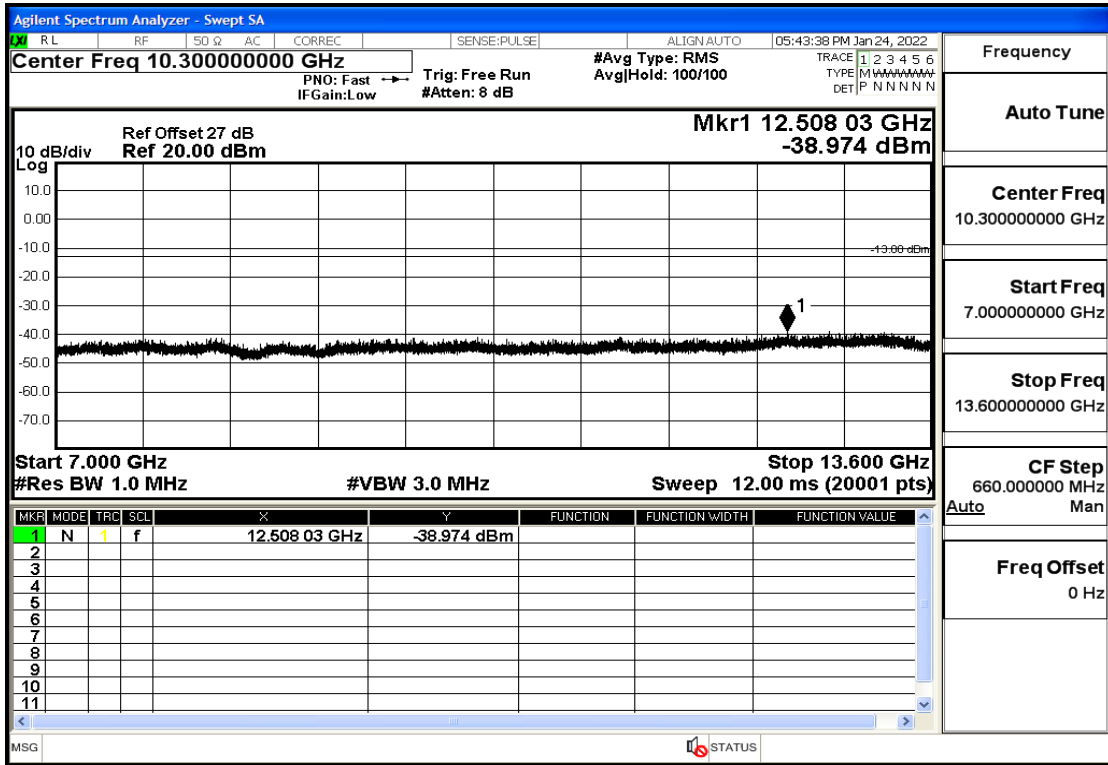
OB4-15-1747.5-Q16-75#LOW@30mHz-1GHz@Pass



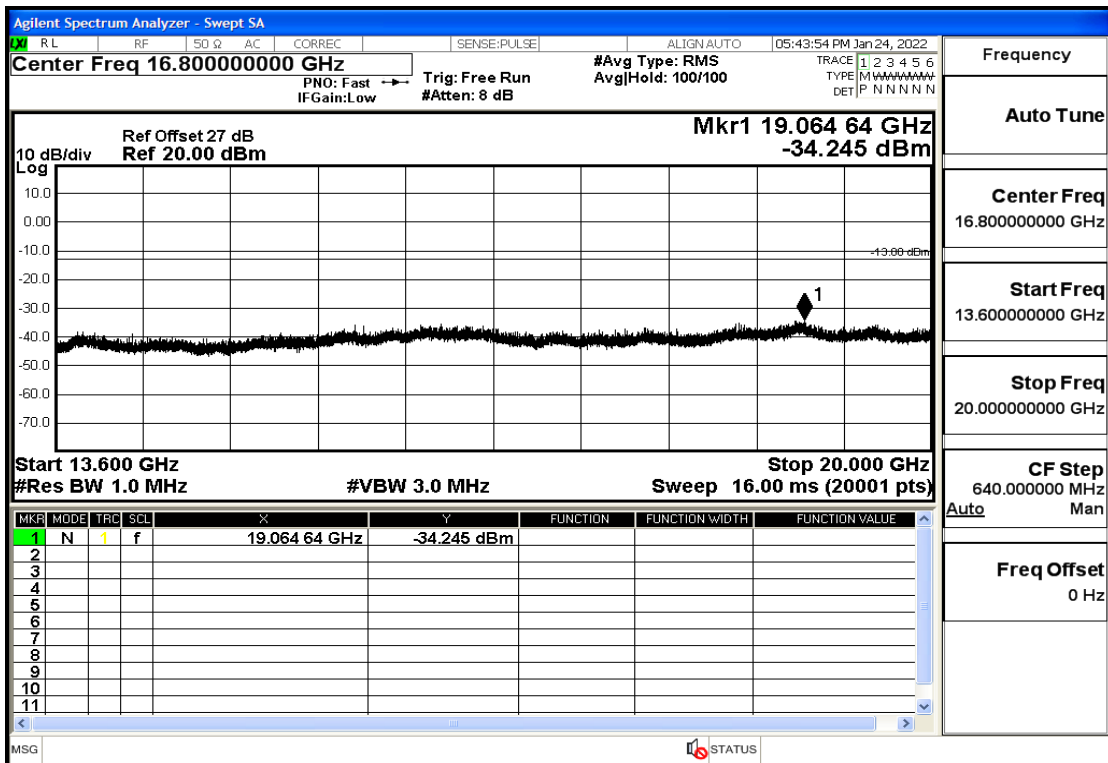
OB4-15-1747.5-Q16-75#LOW@1GHz-7GHz@Pass



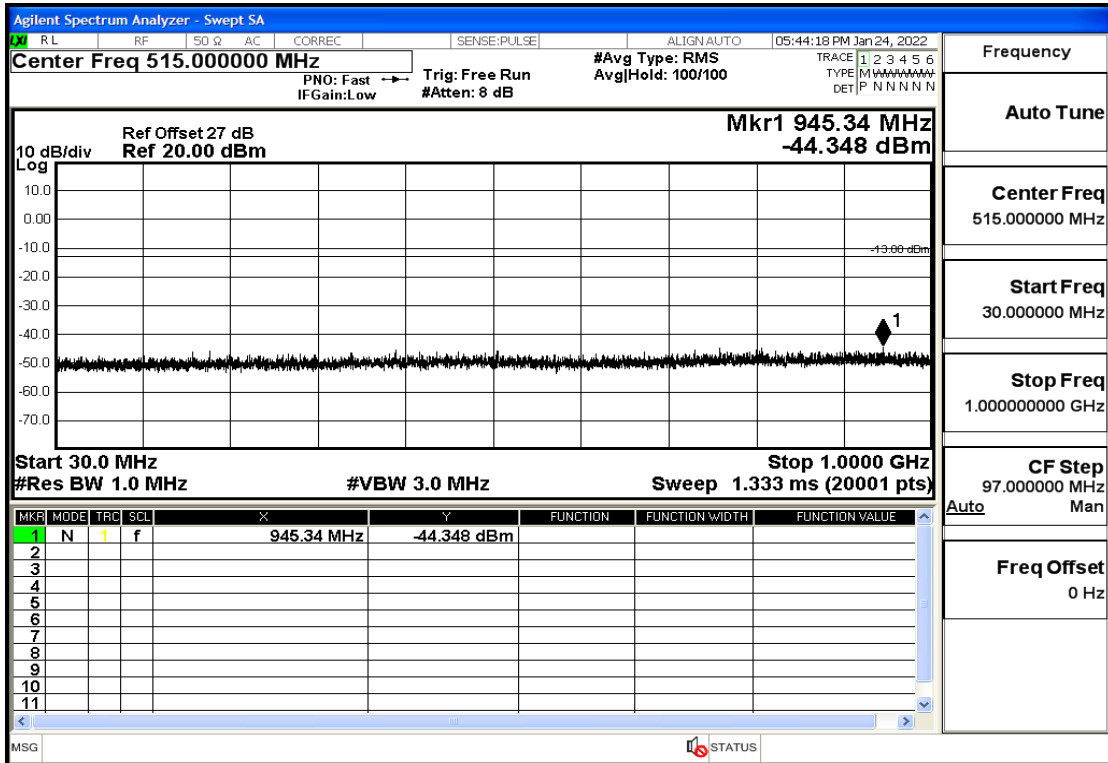
OB4-15-1747.5-Q16-75#LOW@7GHz-13.6GHz@Pass



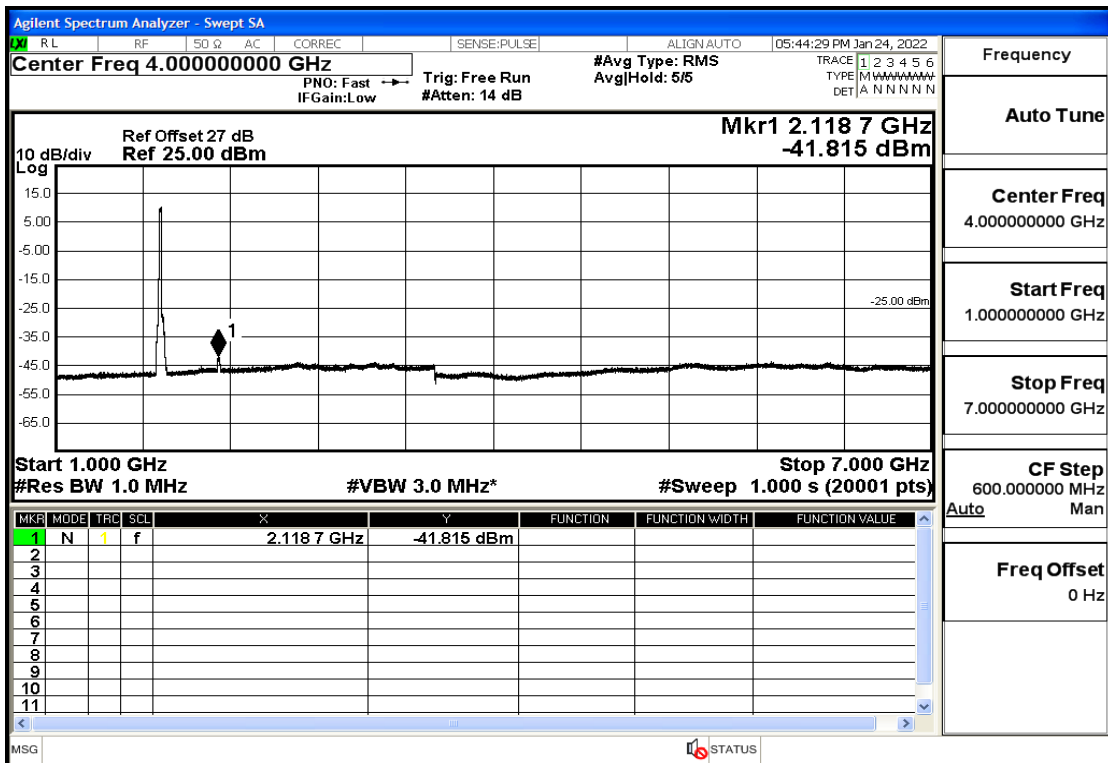
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OB4-20-1720-Q16-100#LOW@30mHz-1GHz@Pass

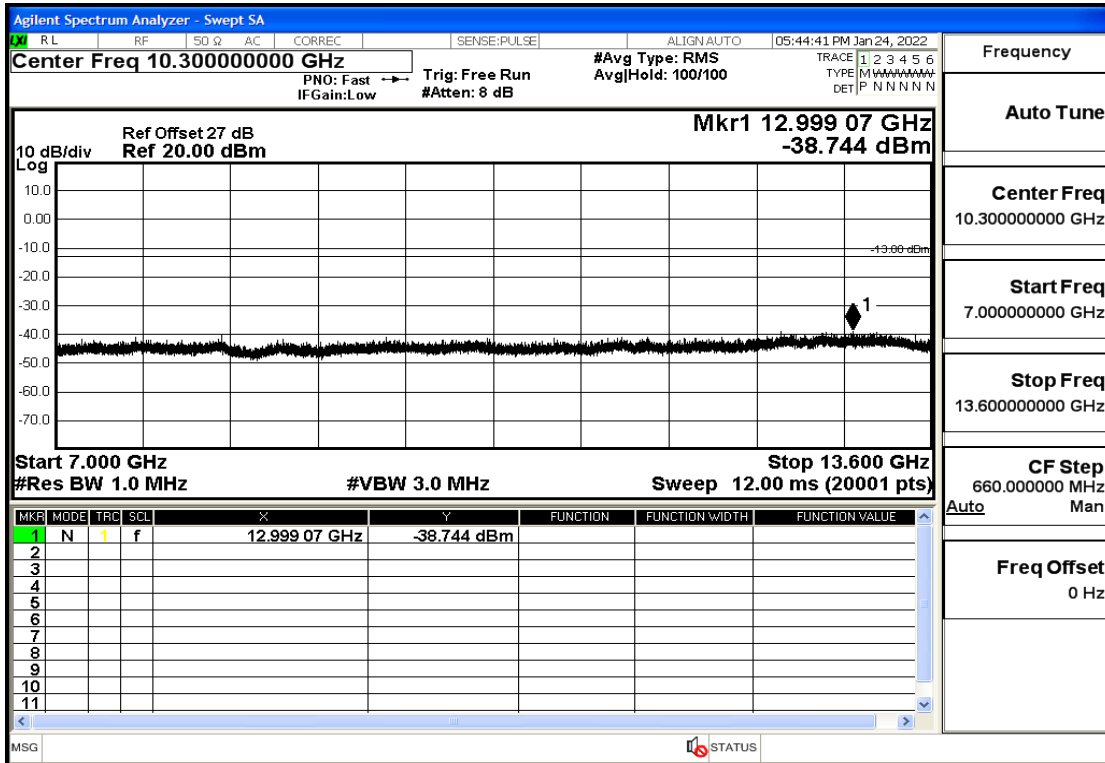


OB4-20-1720-Q16-100#LOW@1GHz-7GHz@Pass

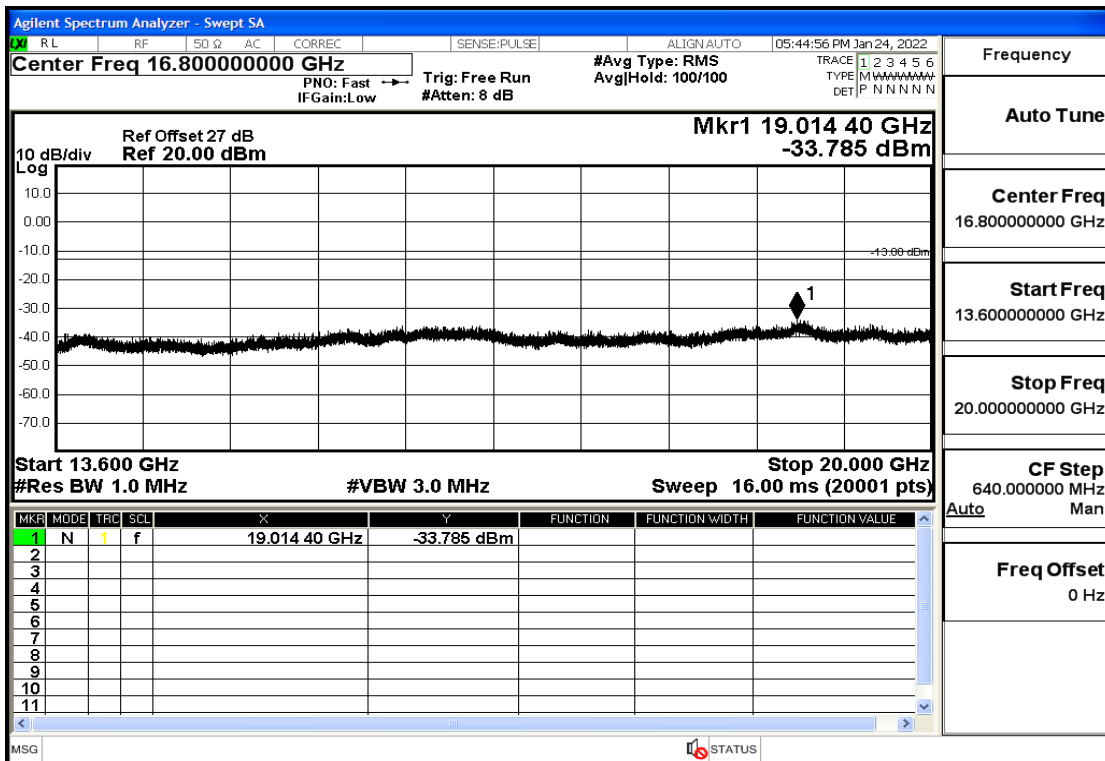




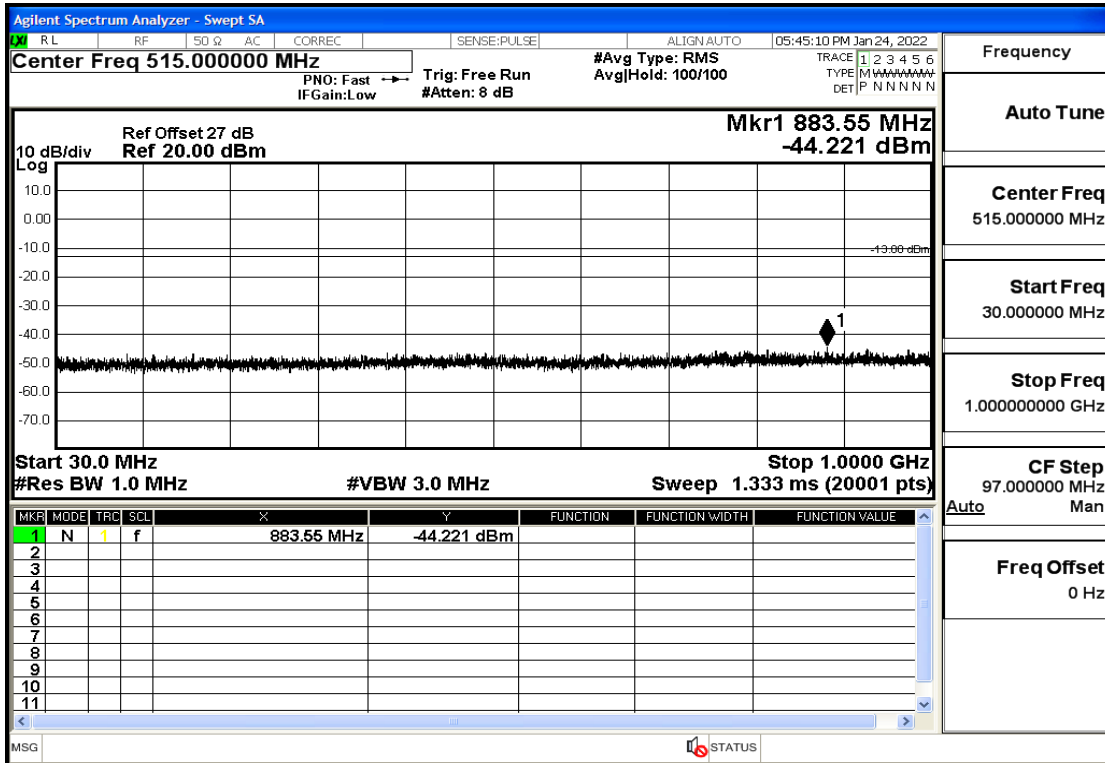
OB4-20-1720-Q16-100#LOW@7GHz-13.6GHz@Pass



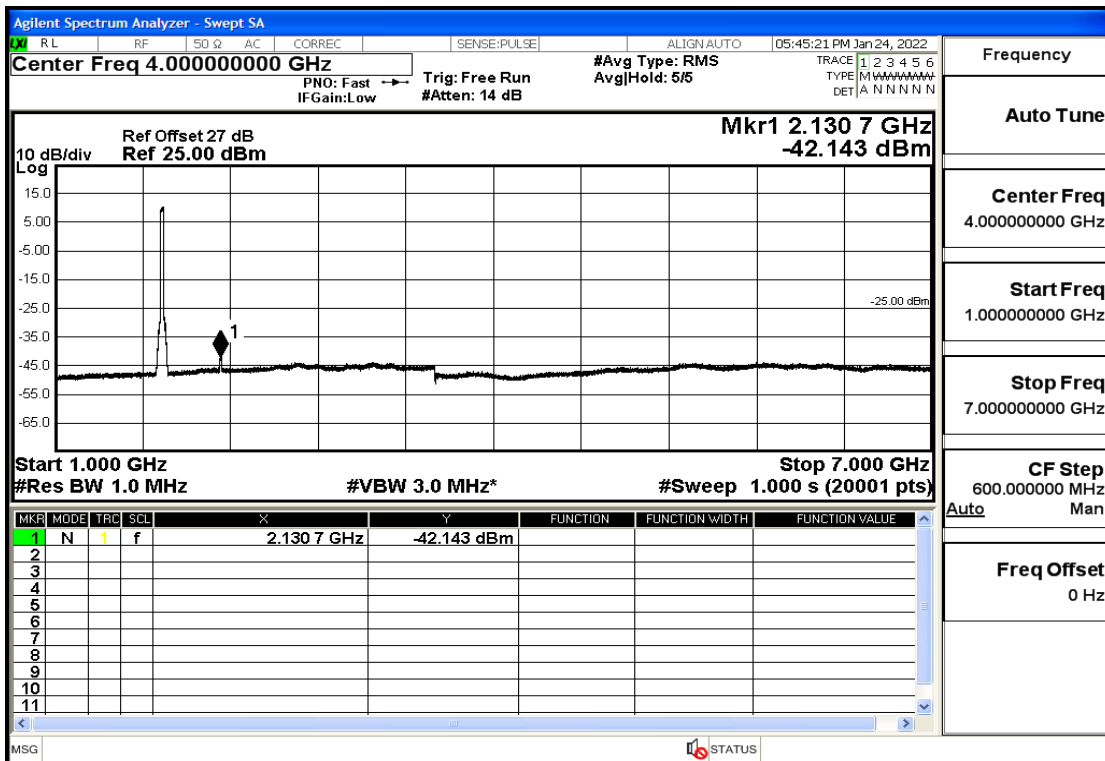
OB4-20-1720-Q16-100#LOW@13.6GHz-20GHz@Pass



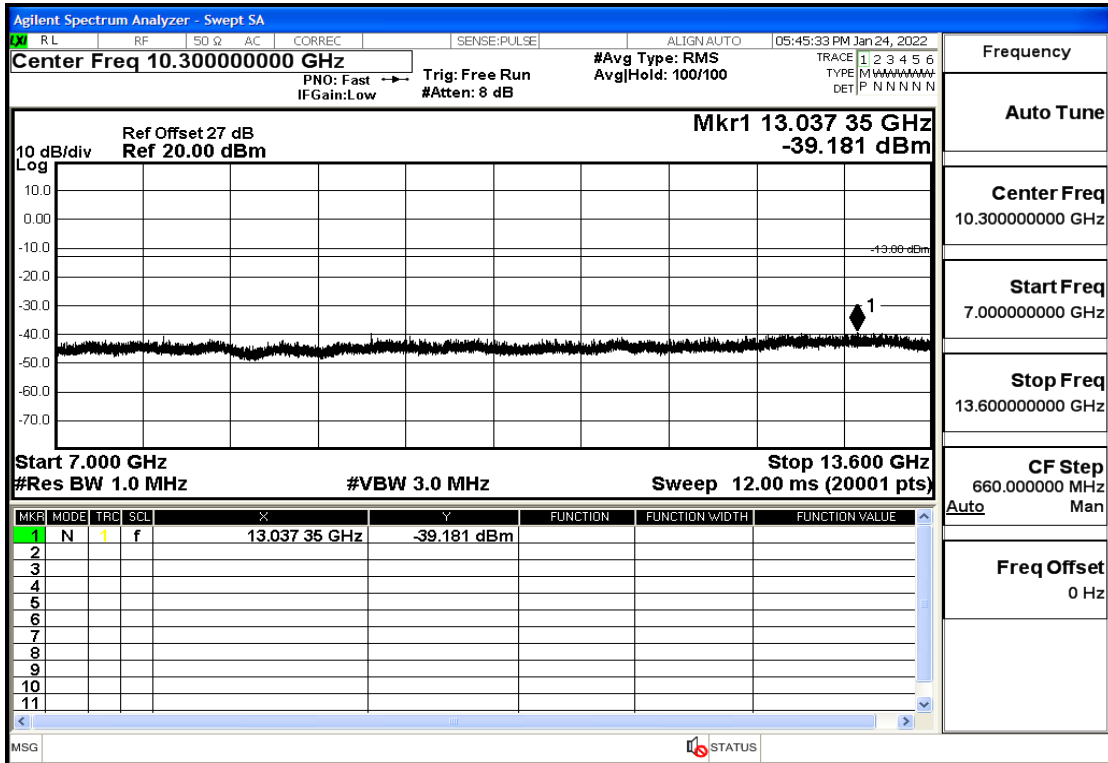
OB4-20-1732.5-Q16-100#LOW@30mHz-1GHz@Pass



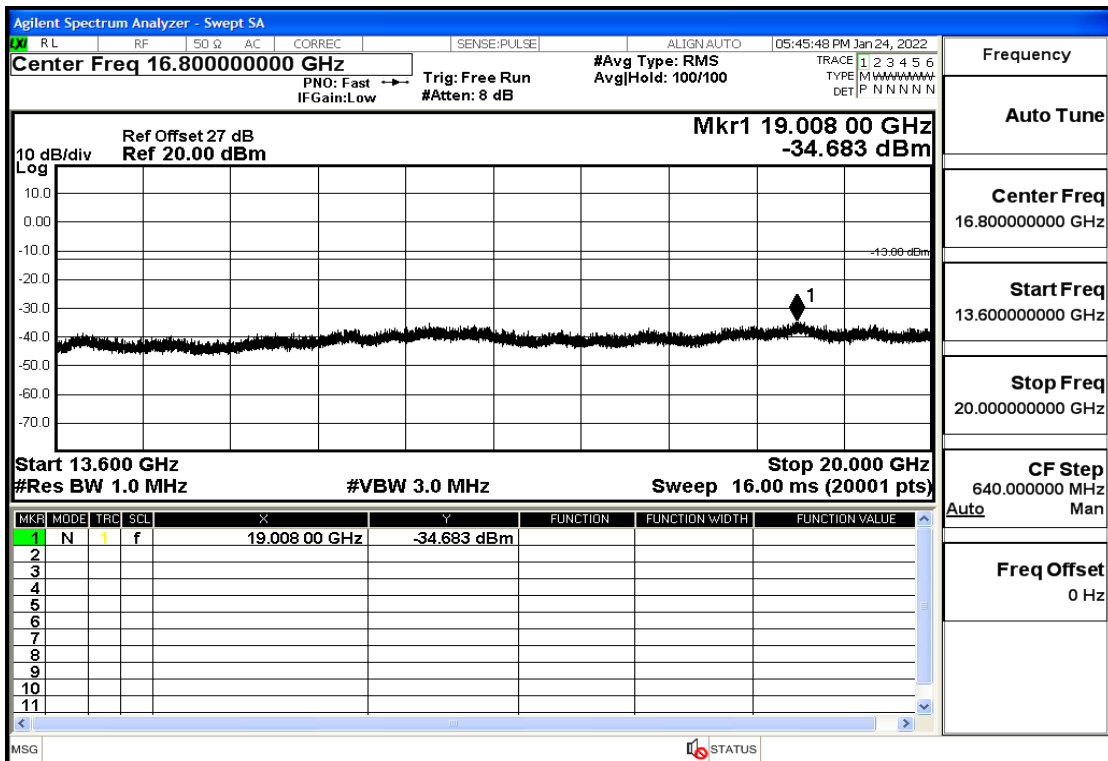
OB4-20-1732.5-Q16-100#LOW@1GHz-7GHz@Pass



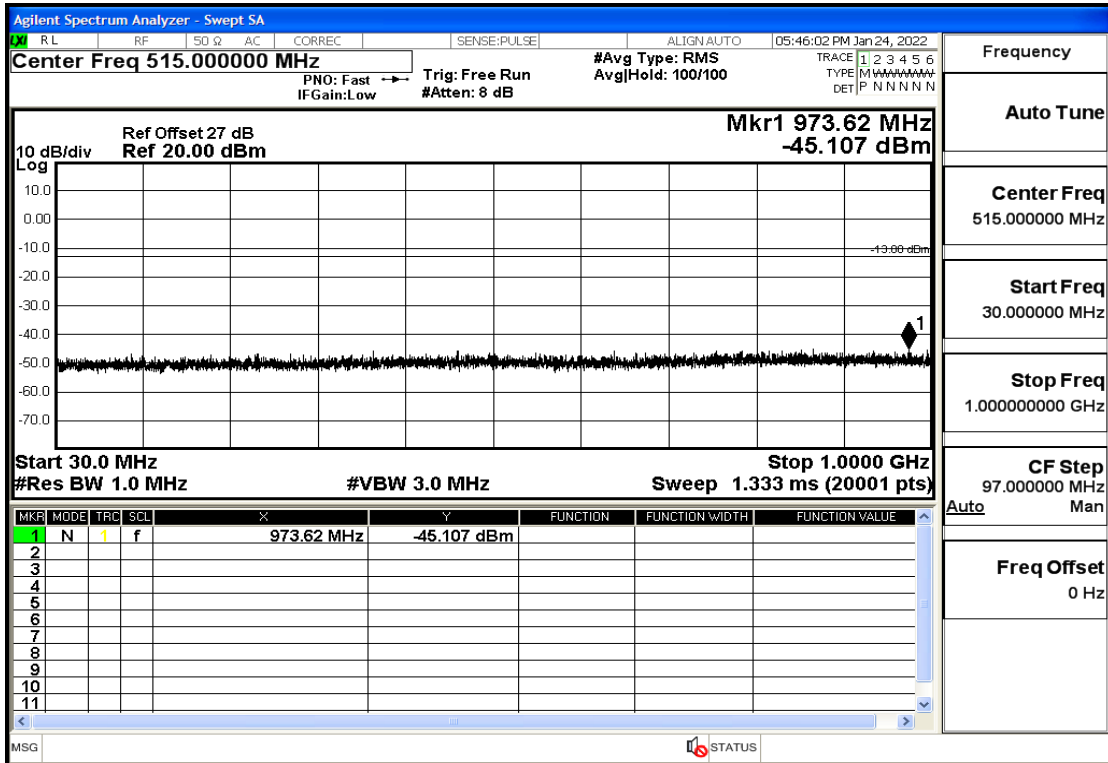
OB4-20-1732.5-Q16-100#LOW@7GHz-13.6GHz@Pass



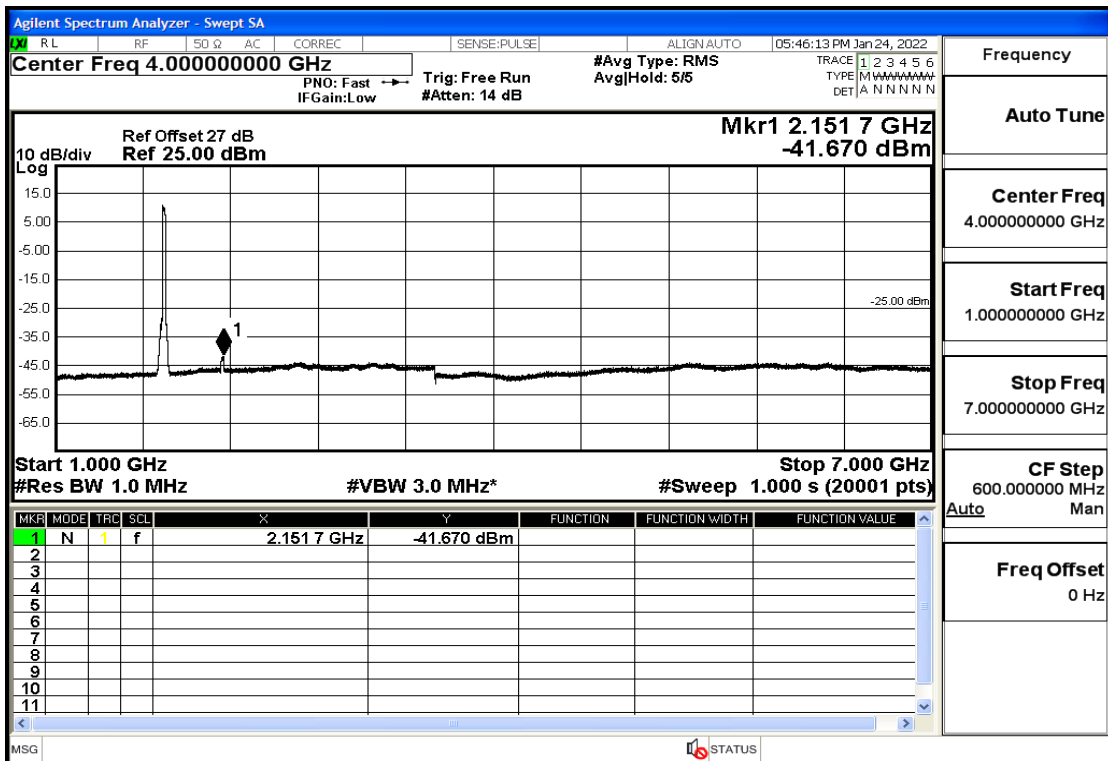
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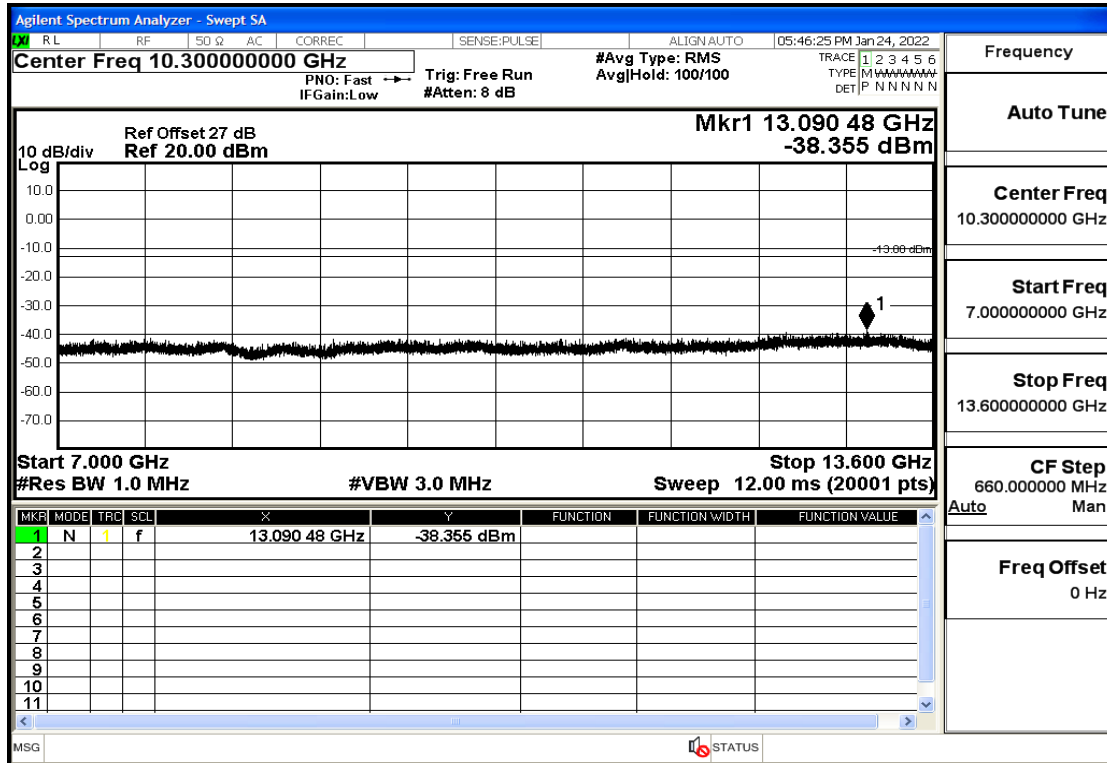
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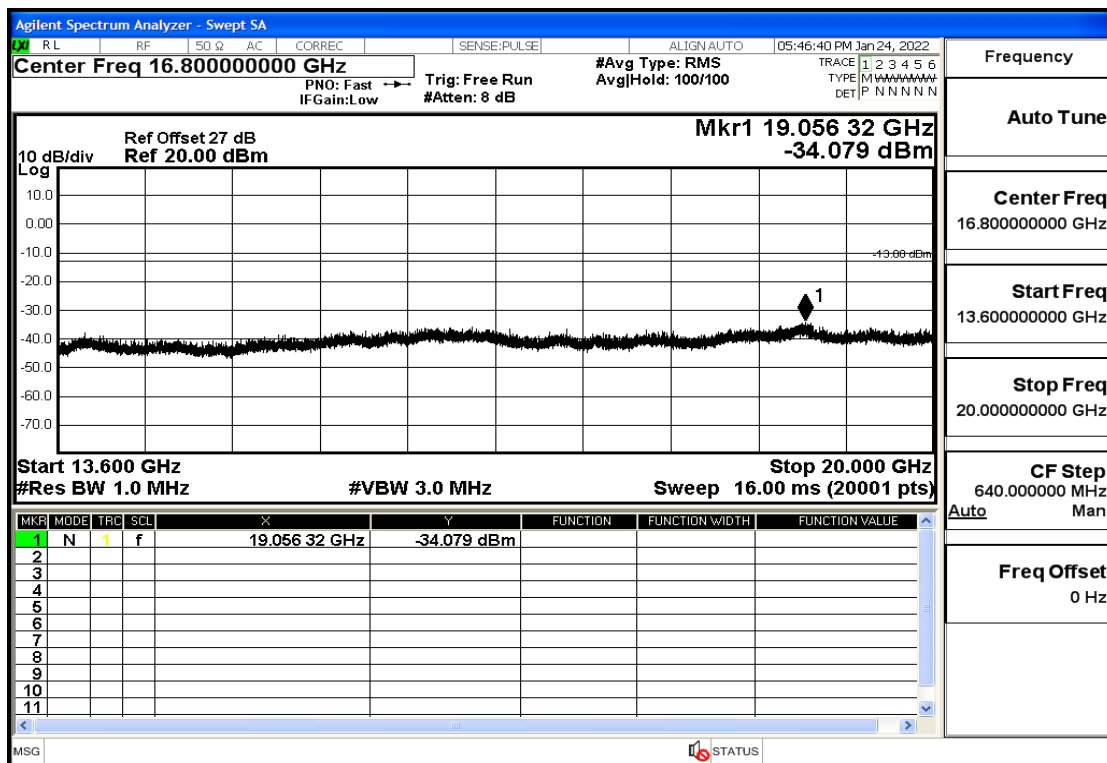
OB4-20-1745-Q16-100#LOW@1GHz-7GHz@Pass



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



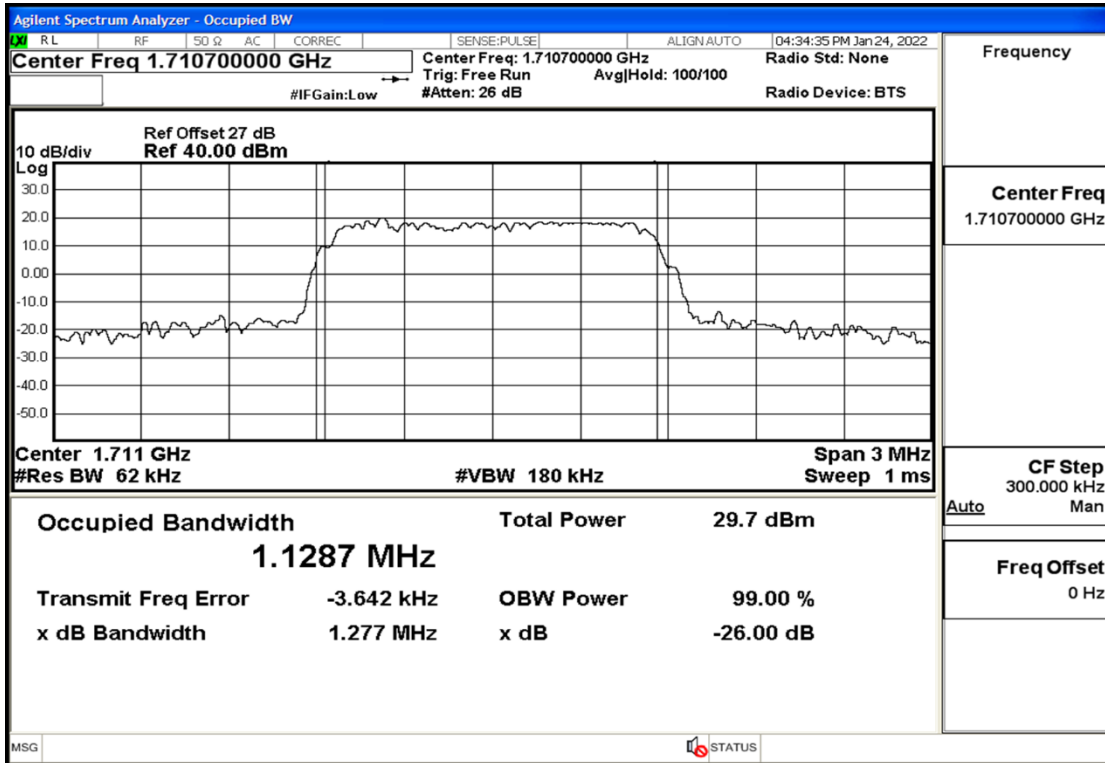
OB4-20-1745-Q16-100#LOW@13.6GHz-20GHz@Pass



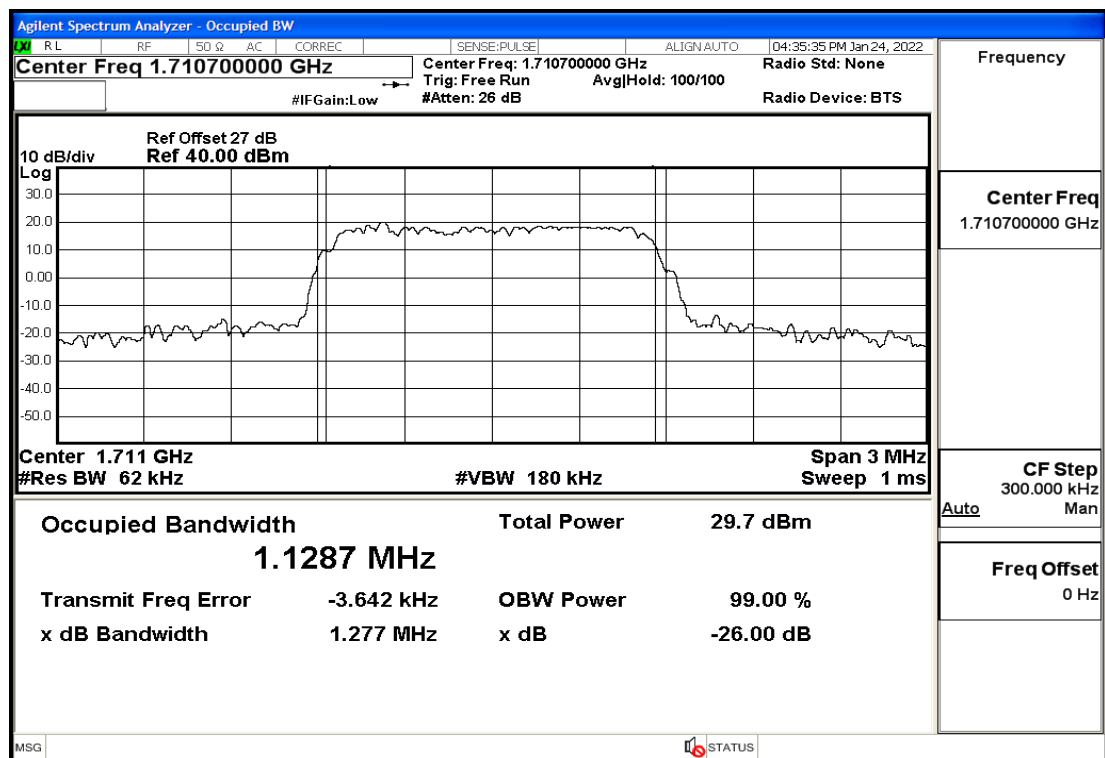
## Emission bandwidth and OBW

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	1128.7	1277	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1128.7	1277	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1115.6	1289	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1106.1	1267	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1121.4	1310	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1113.2	1290	No limit
Band4	3	1711.5	QPSK	15	LOW	2763.2	3137	No limit
Band4	3	1711.5	16QAM	15	LOW	2738.1	3077	No limit
Band4	3	1732.5	QPSK	15	LOW	2756.1	3085	No limit
Band4	3	1732.5	16QAM	15	LOW	2760.8	3102	No limit
Band4	3	1753.5	QPSK	15	LOW	2769.3	3117	No limit
Band4	3	1753.5	16QAM	15	LOW	2760.7	3132	No limit
Band4	5	1712.5	QPSK	25	LOW	4595.1	5002	No limit
Band4	5	1712.5	16QAM	25	LOW	4583.5	5094	No limit
Band4	5	1732.5	QPSK	25	LOW	4587.1	5073	No limit
Band4	5	1732.5	16QAM	25	LOW	4578.5	5087	No limit
Band4	5	1752.5	QPSK	25	LOW	4586.5	5044	No limit
Band4	5	1752.5	16QAM	25	LOW	4599.8	5047	No limit
Band4	10	1715	QPSK	50	LOW	9117.4	9968	No limit
Band4	10	1715	16QAM	50	LOW	9071.8	10070	No limit
Band4	10	1732.5	QPSK	50	LOW	9143.6	10110	No limit
Band4	10	1732.5	16QAM	50	LOW	9130.3	10090	No limit
Band4	10	1750	QPSK	50	LOW	9128	10020	No limit
Band4	10	1750	16QAM	50	LOW	9100.2	10200	No limit
Band4	15	1717.5	QPSK	75	LOW	13684	15180	No limit
Band4	15	1717.5	16QAM	75	LOW	13632	15130	No limit
Band4	15	1732.5	QPSK	75	LOW	13647	15110	No limit
Band4	15	1732.5	16QAM	75	LOW	13689	15220	No limit
Band4	15	1747.5	QPSK	75	LOW	13694	15350	No limit
Band4	15	1747.5	16QAM	75	LOW	13715	15120	No limit
Band4	20	1720	QPSK	100	LOW	18205	20030	No limit
Band4	20	1720	16QAM	100	LOW	18228	19990	No limit
Band4	20	1732.5	QPSK	100	LOW	18191	20080	No limit
Band4	20	1732.5	16QAM	100	LOW	18207	20010	No limit
Band4	20	1745	QPSK	100	LOW	18229	19950	No limit
Band4	20	1745	16QAM	100	LOW	18284	20200	No limit

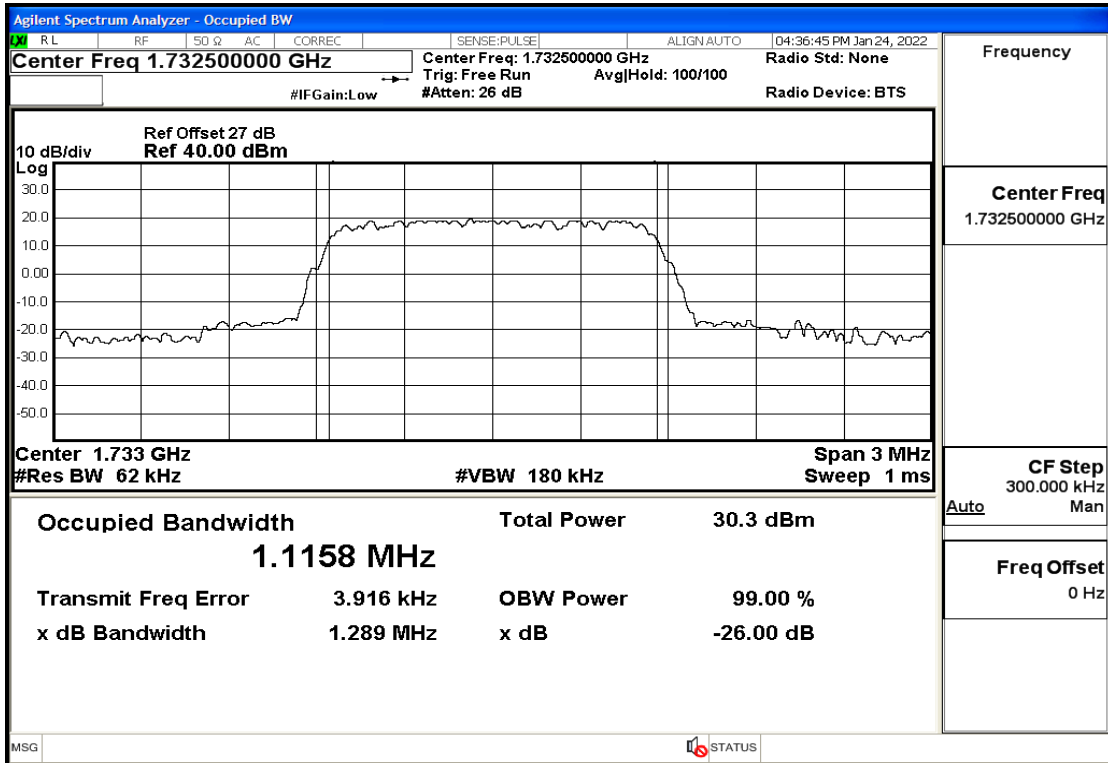
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



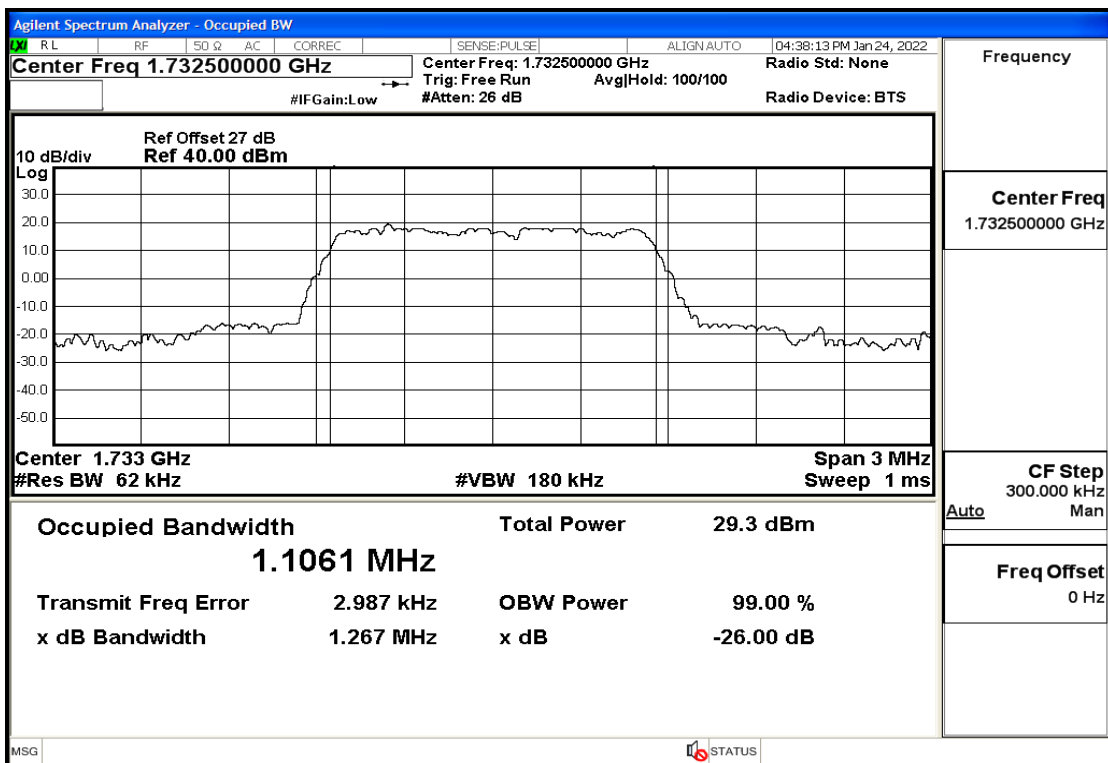
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



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

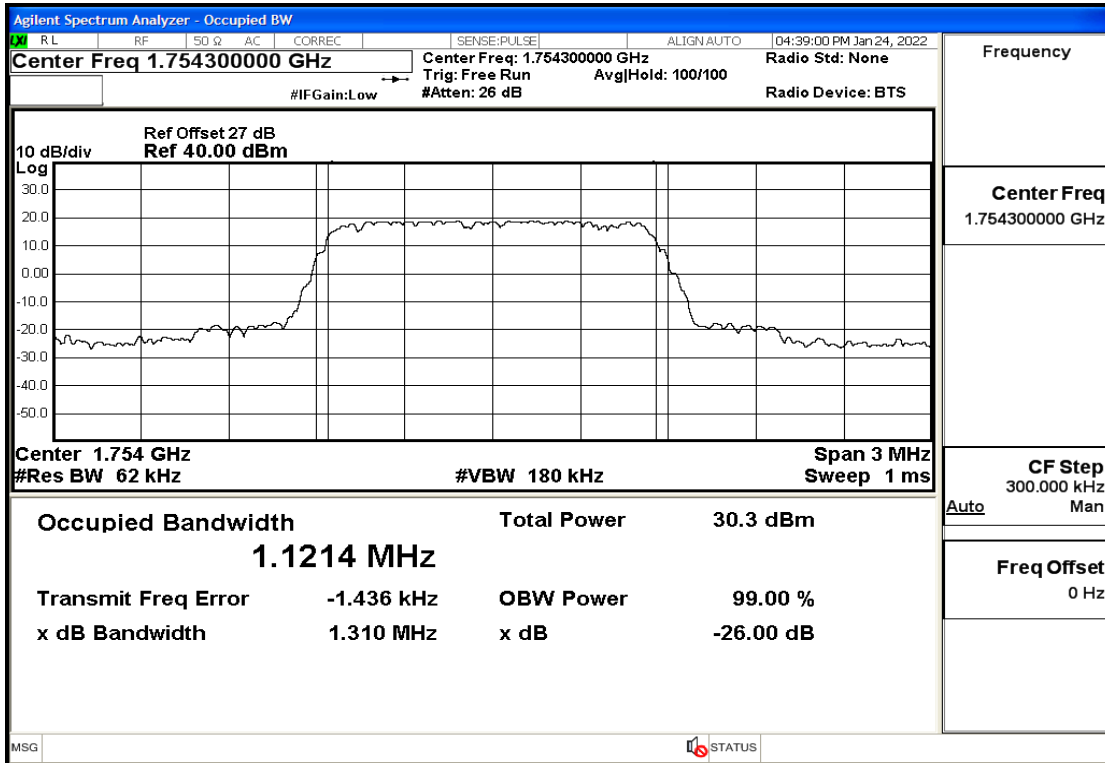


Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth

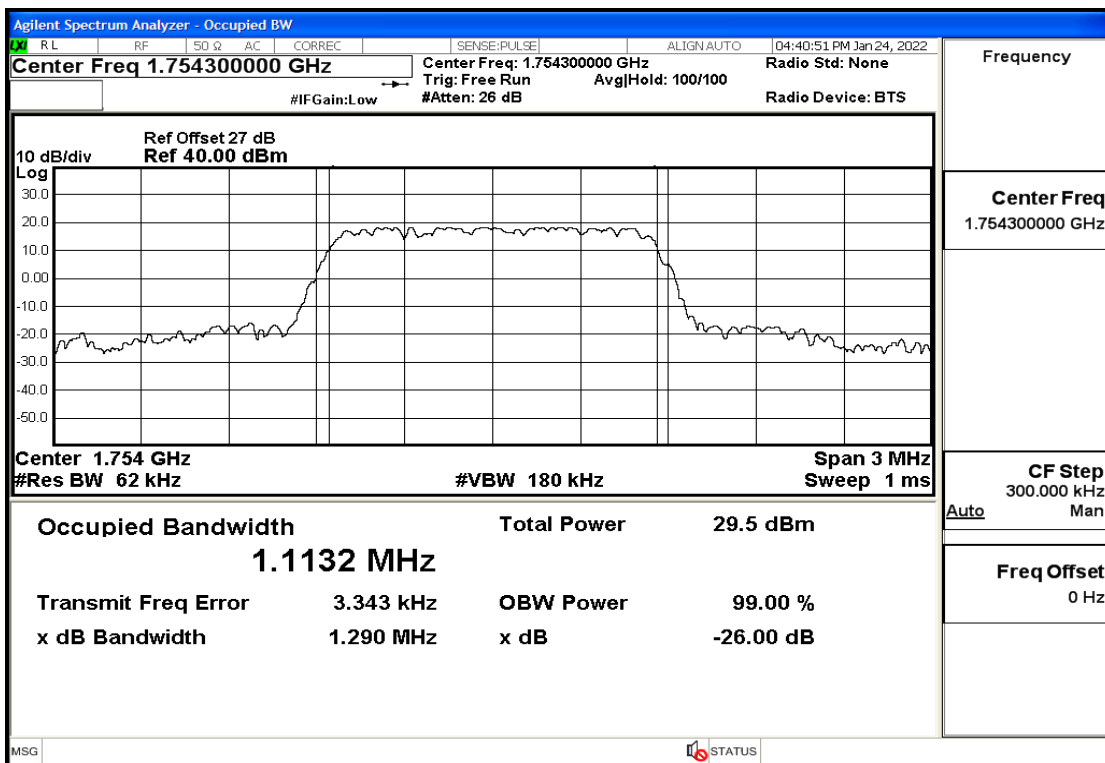




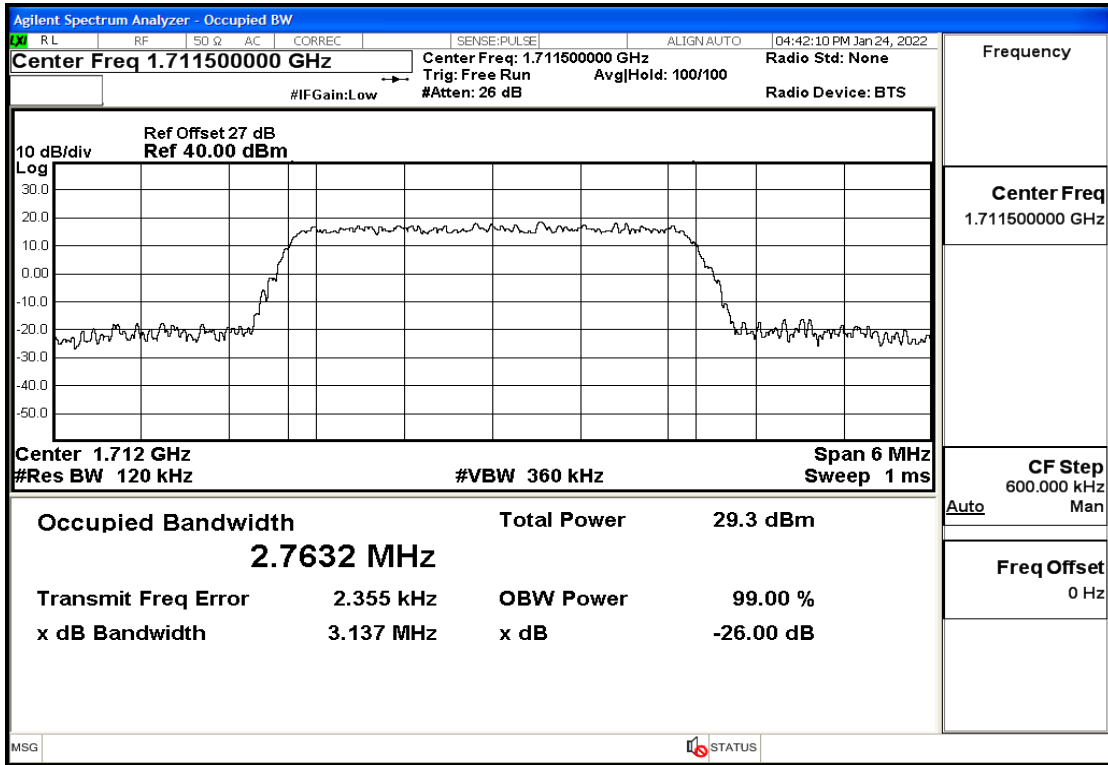
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



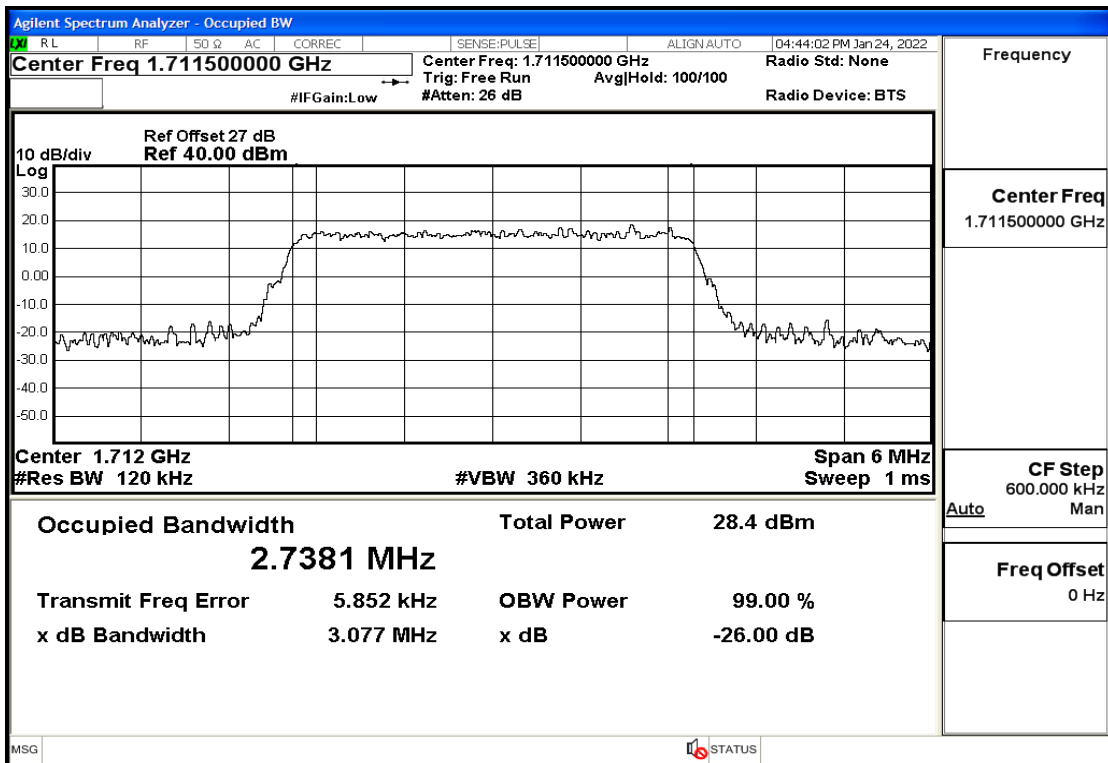
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



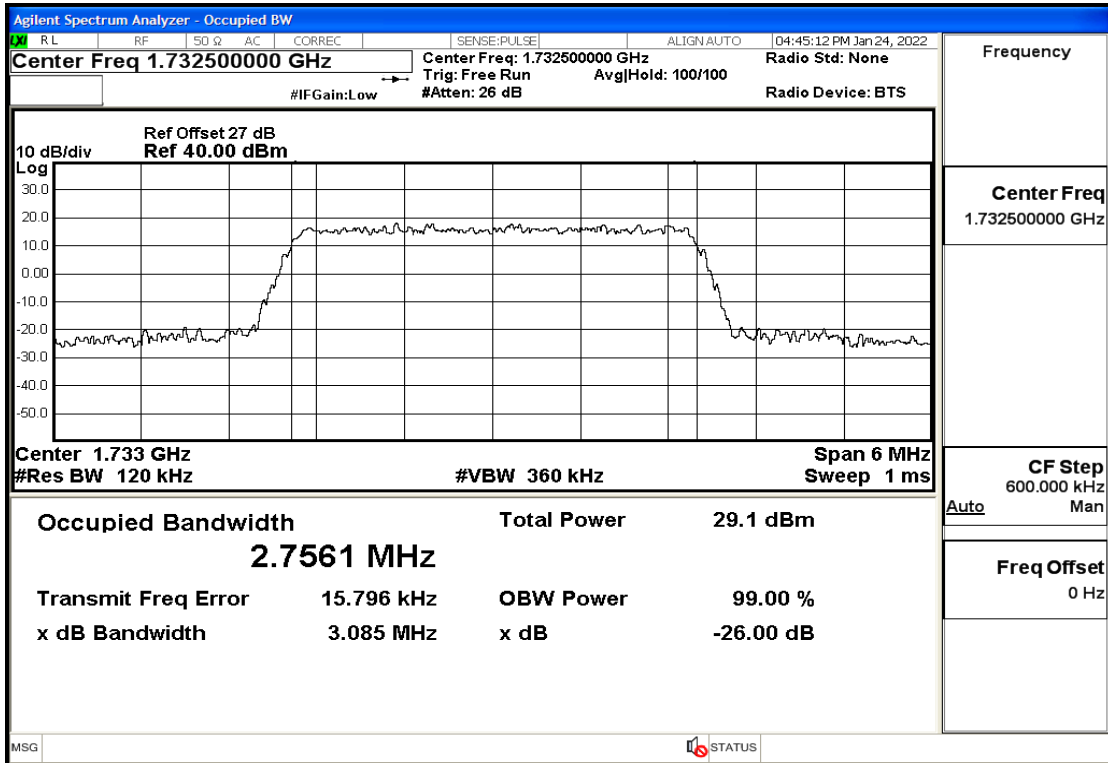
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



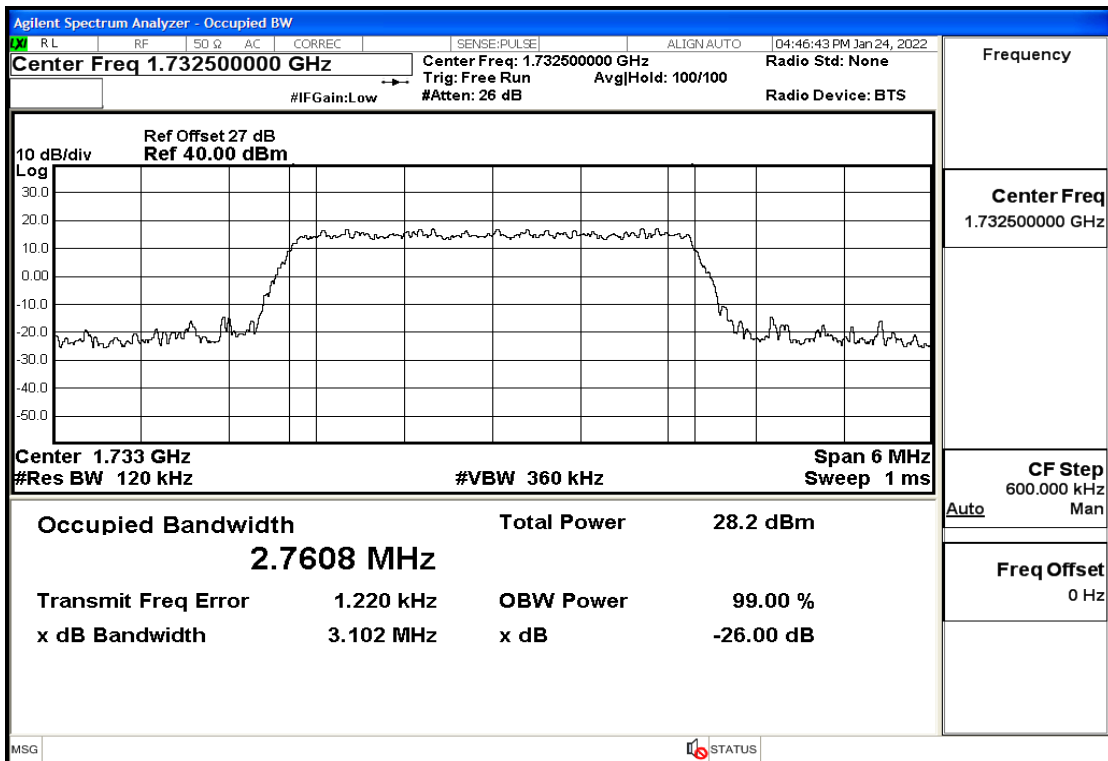
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



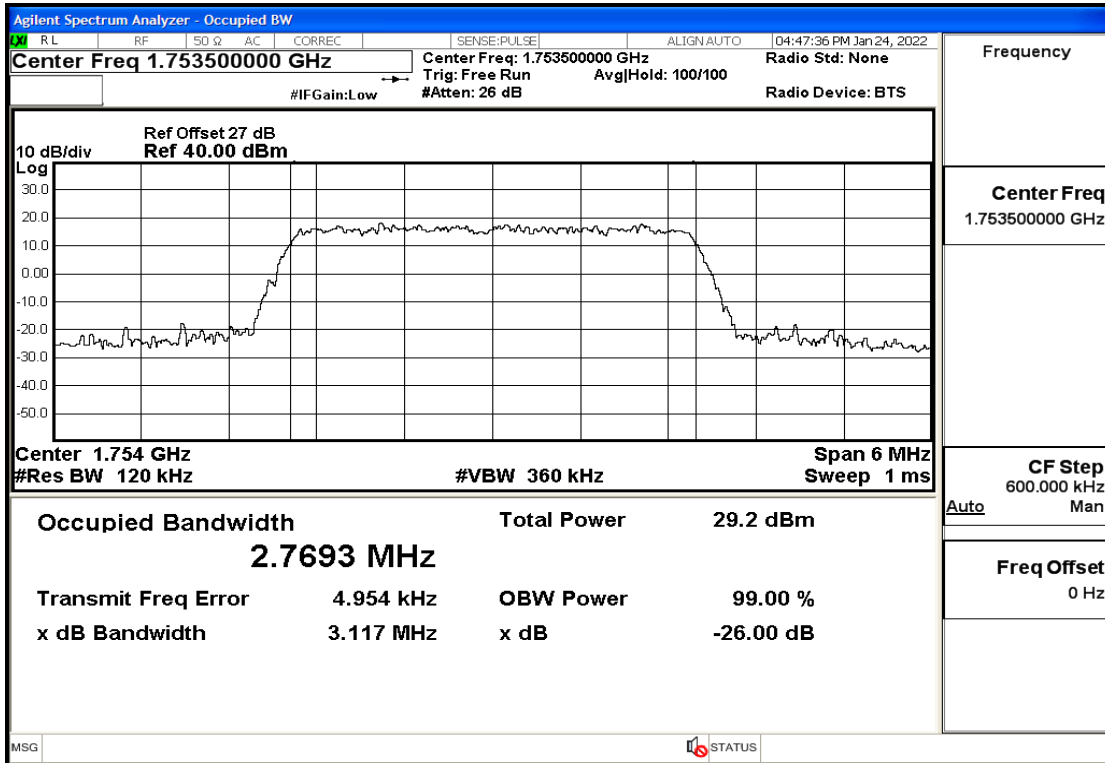
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



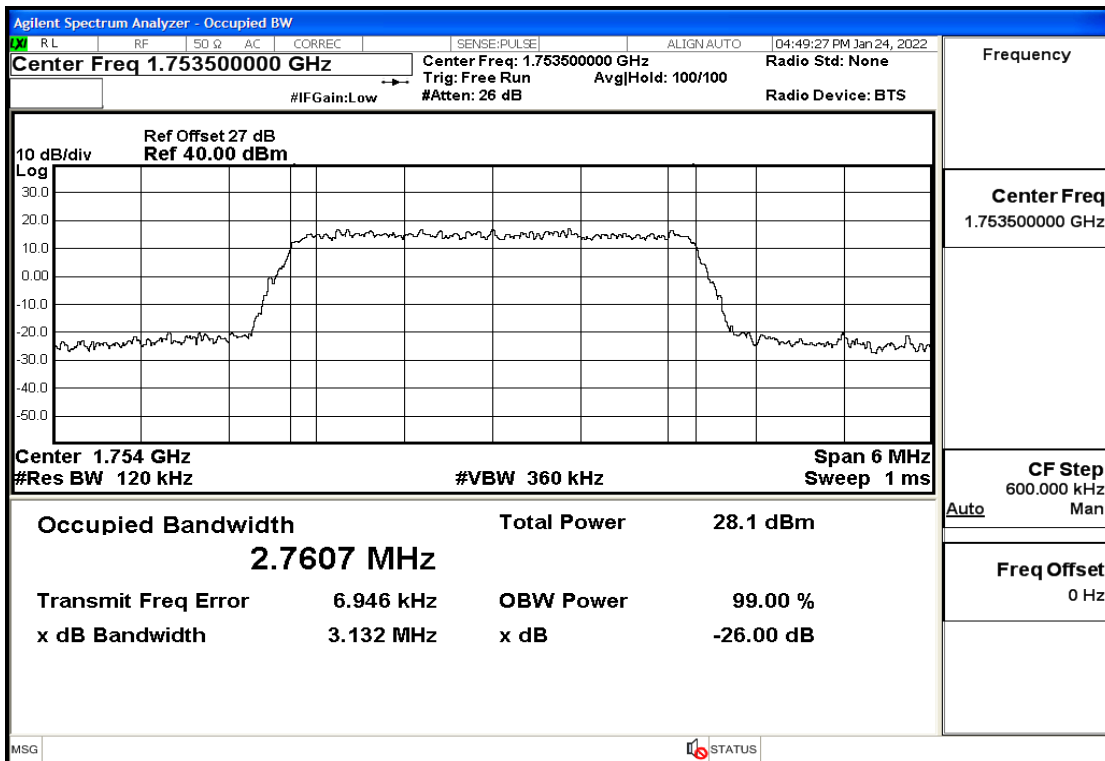
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



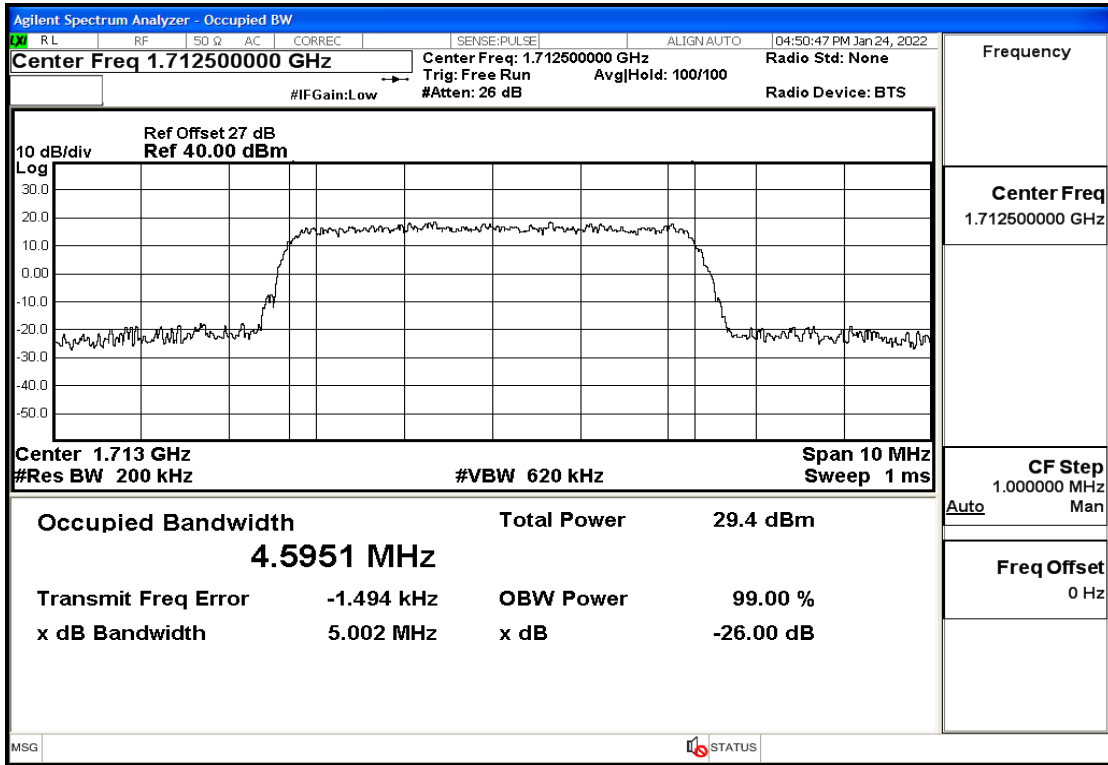
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



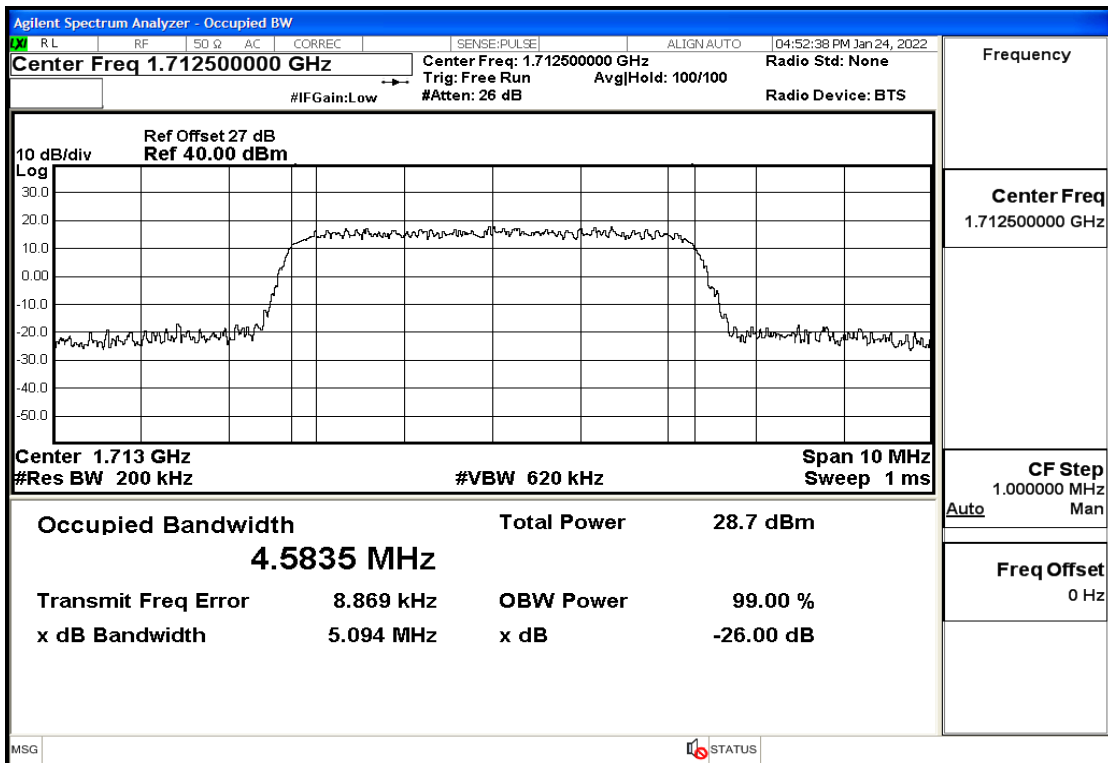
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



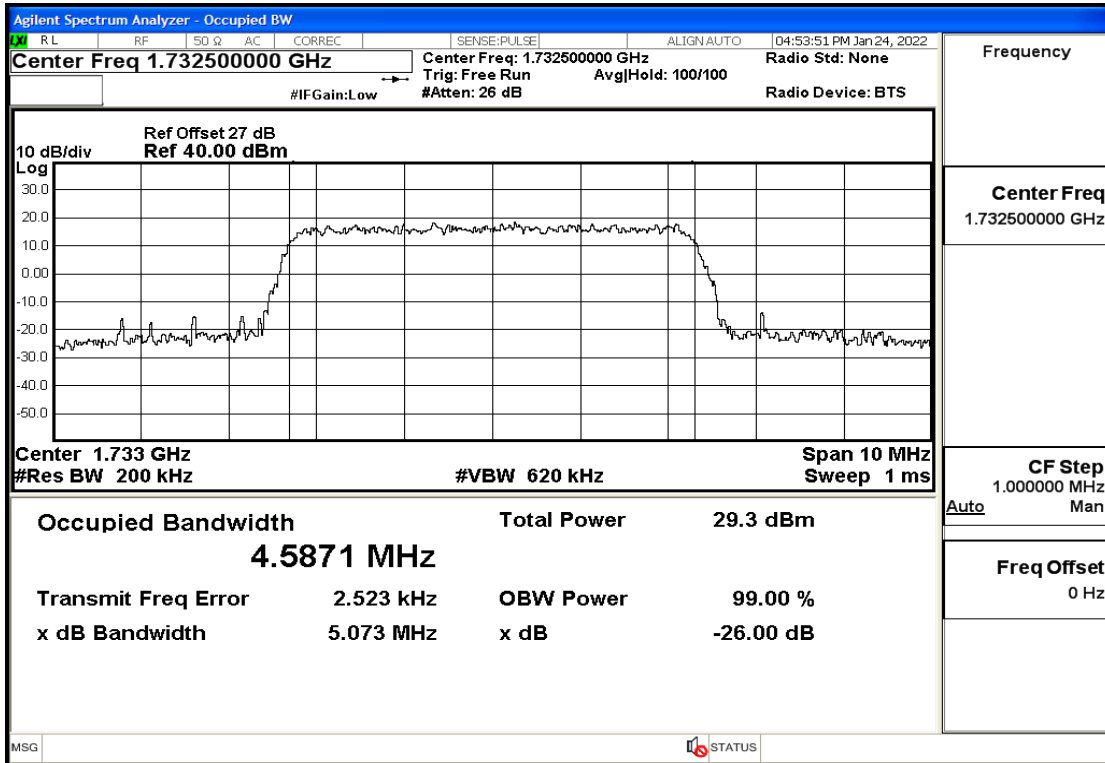
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



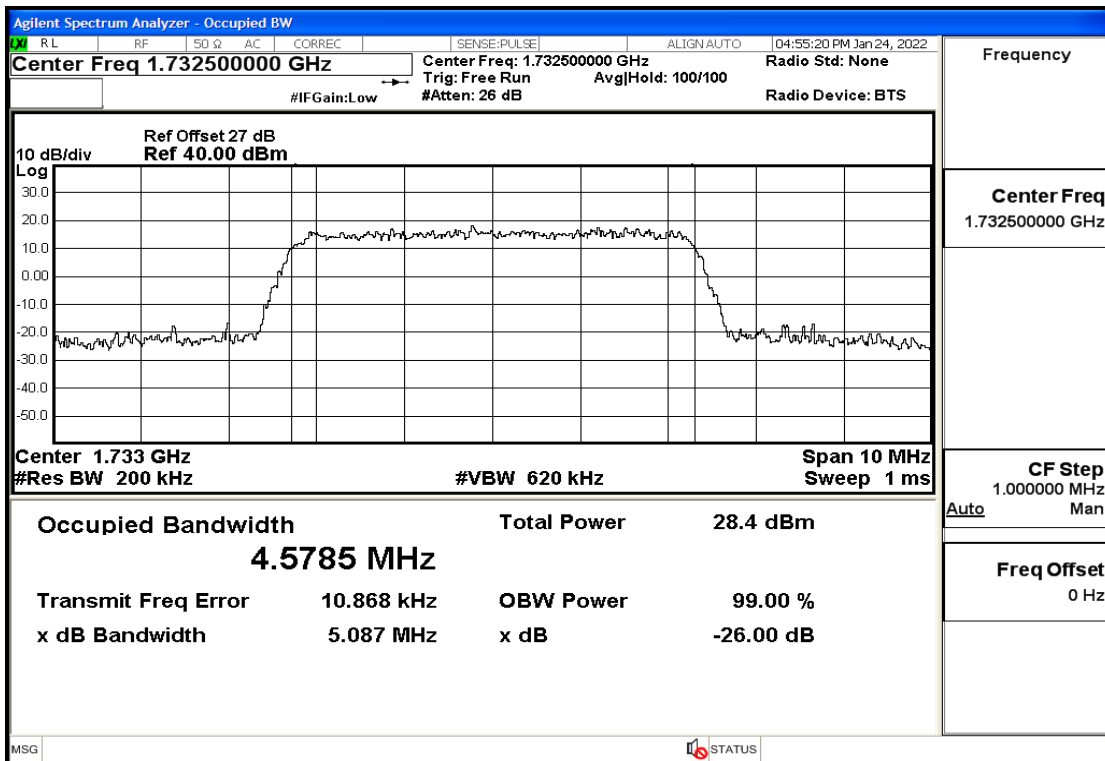
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



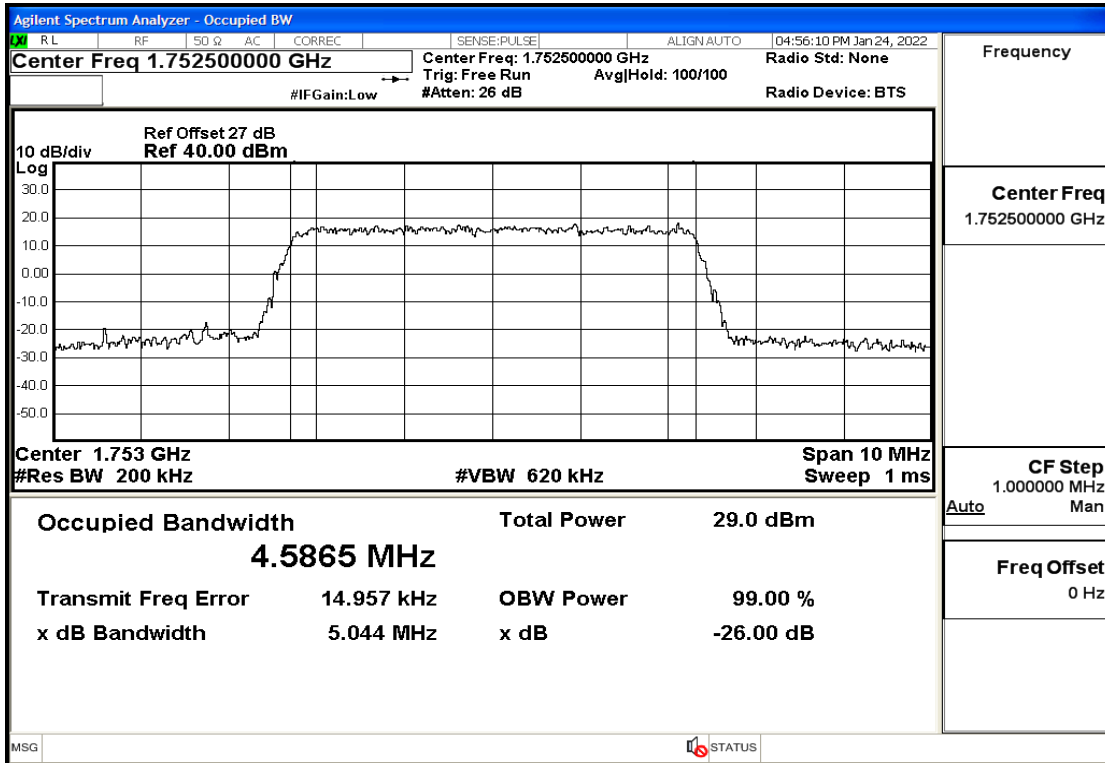
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



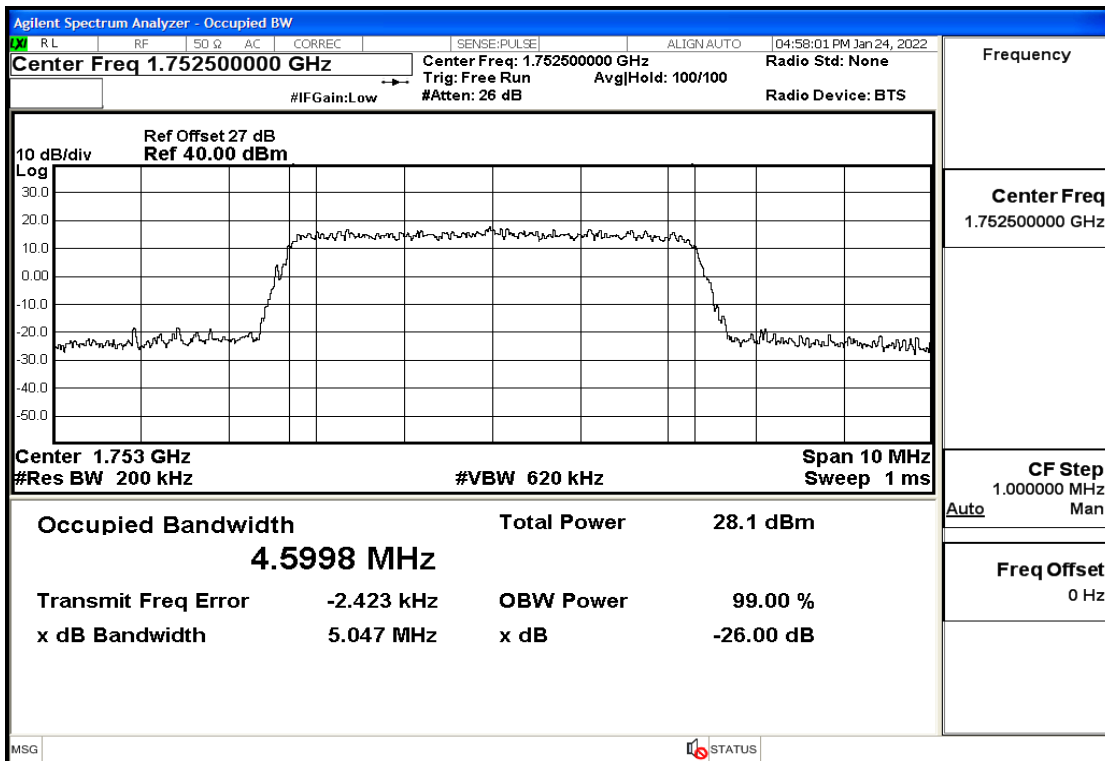
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



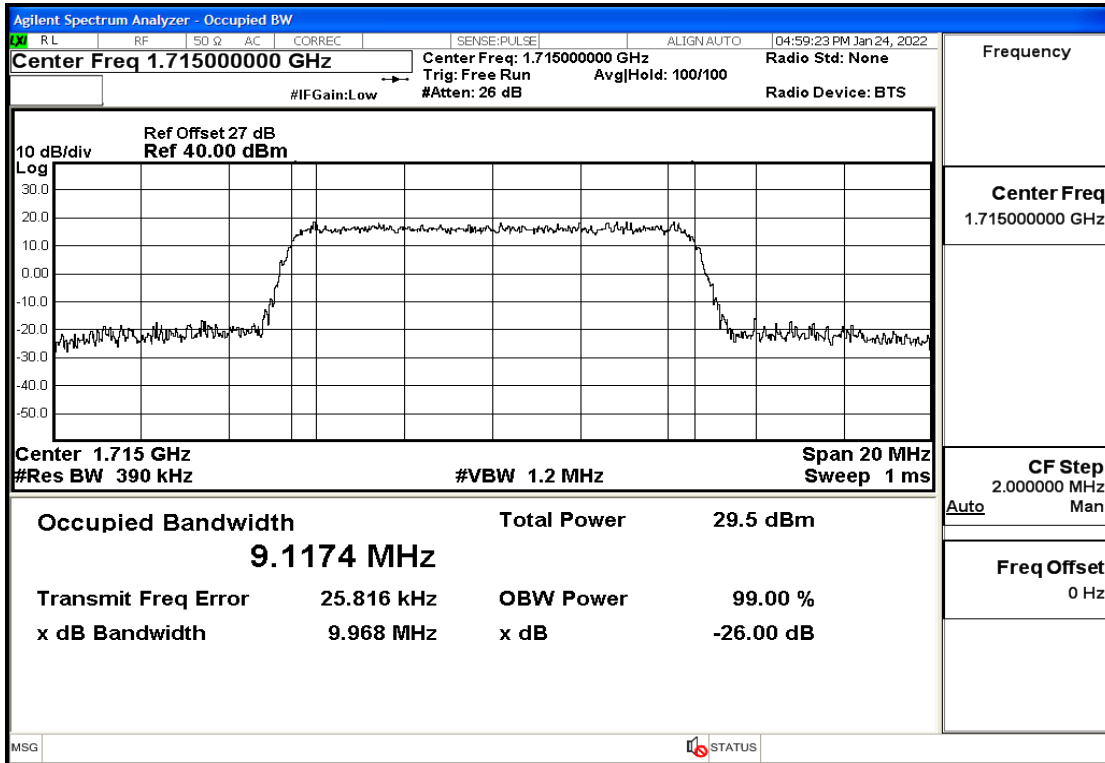
Band4-5-1752.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



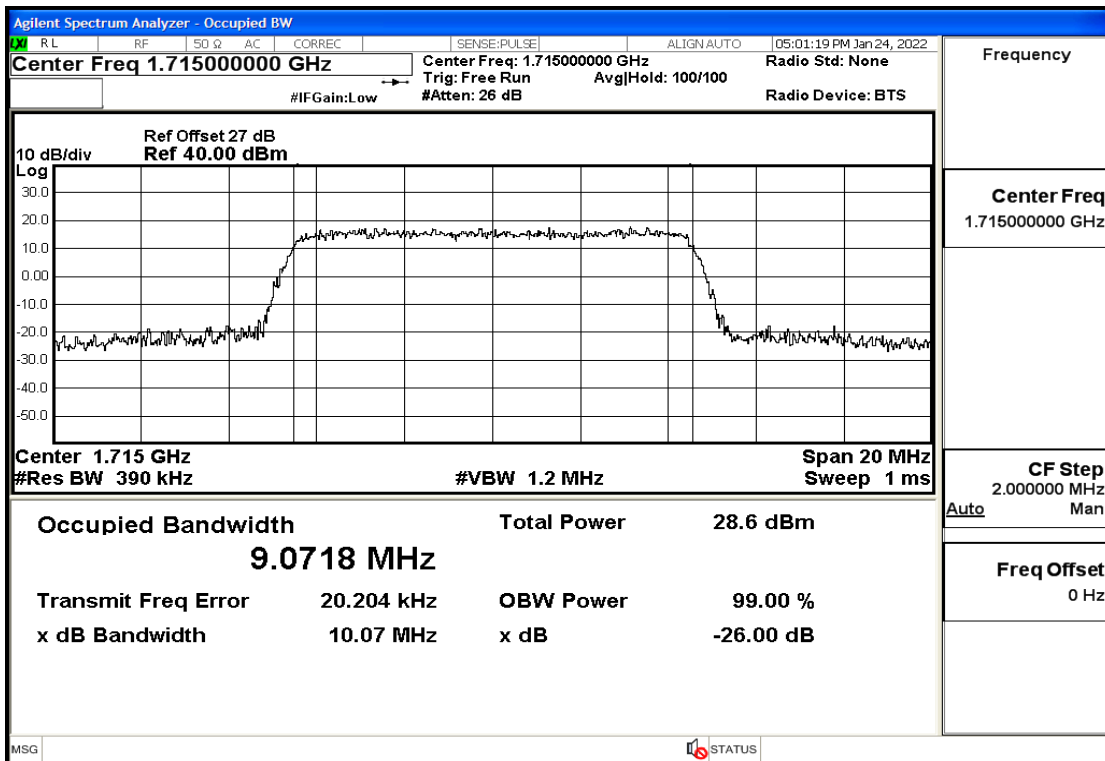
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



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

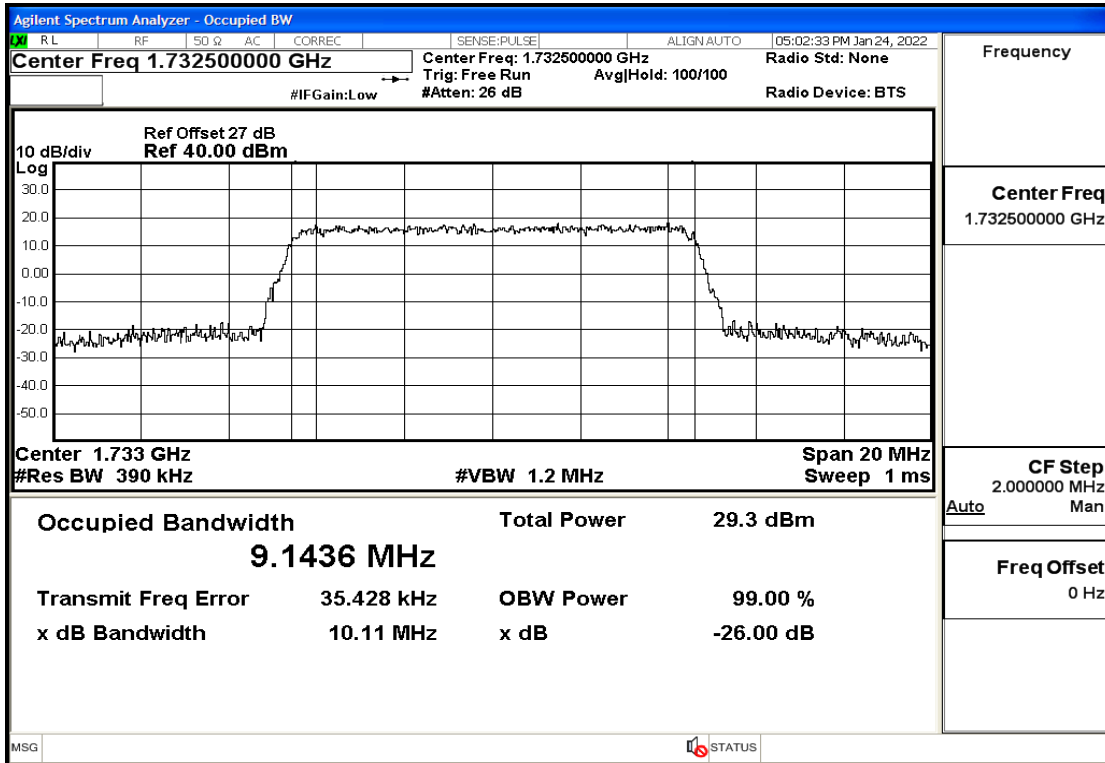


Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth

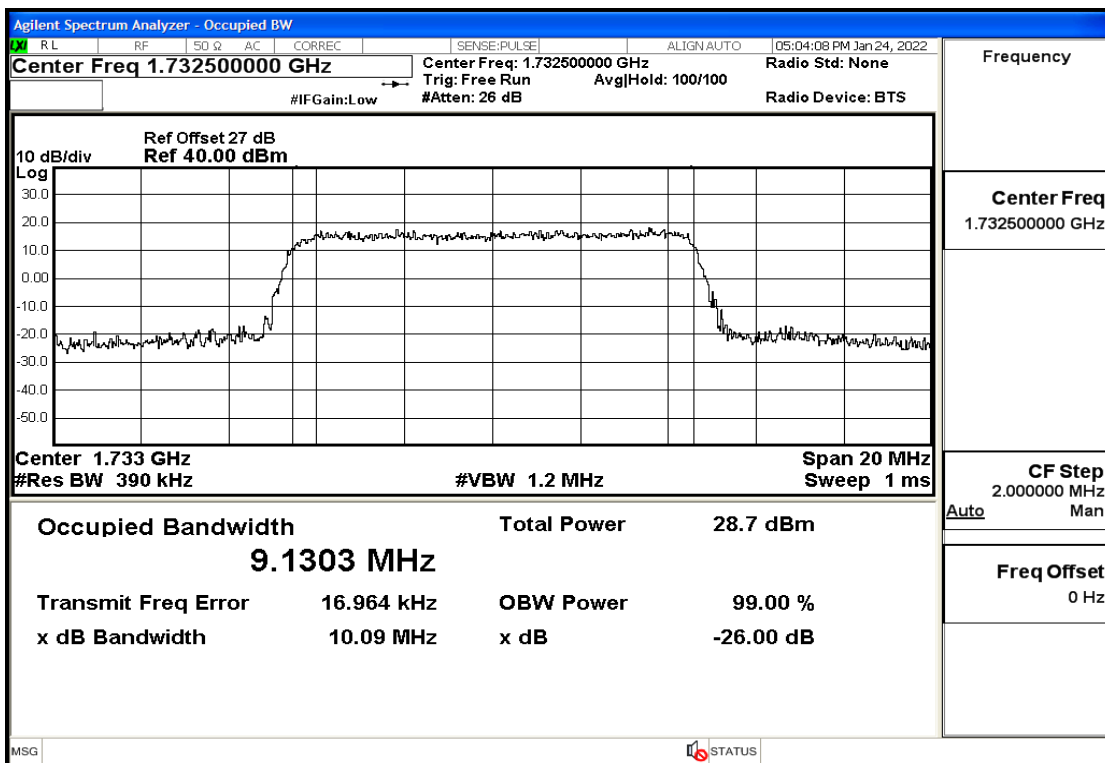




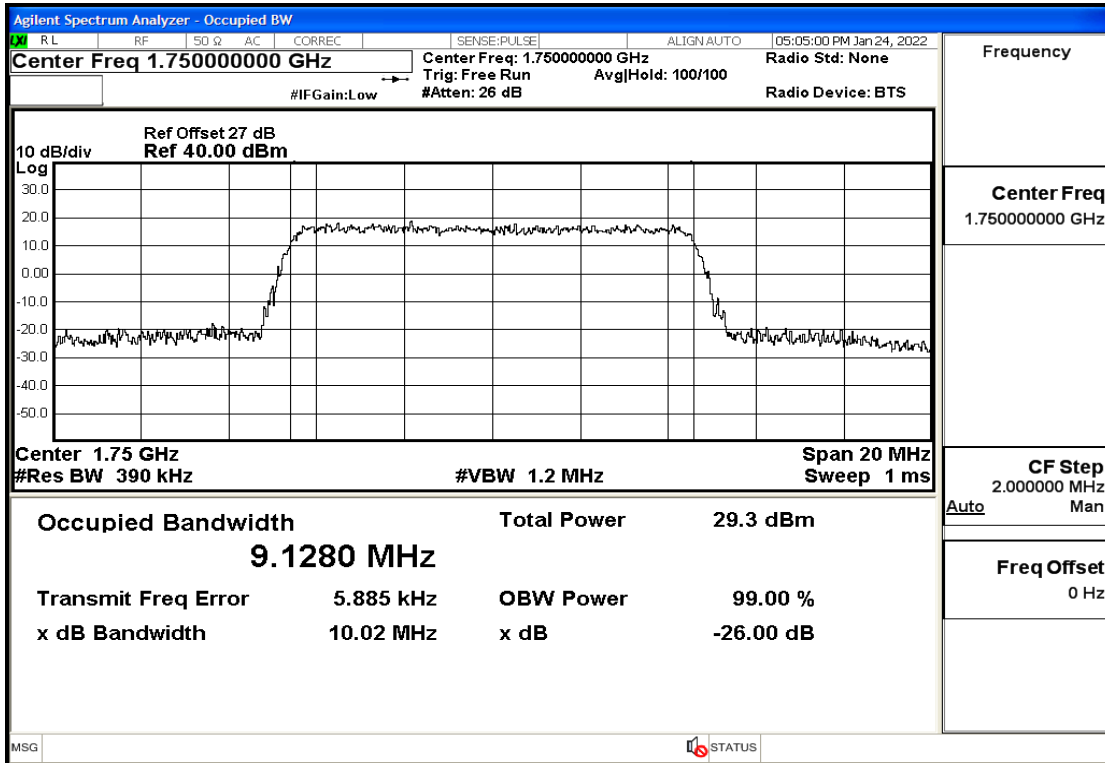
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



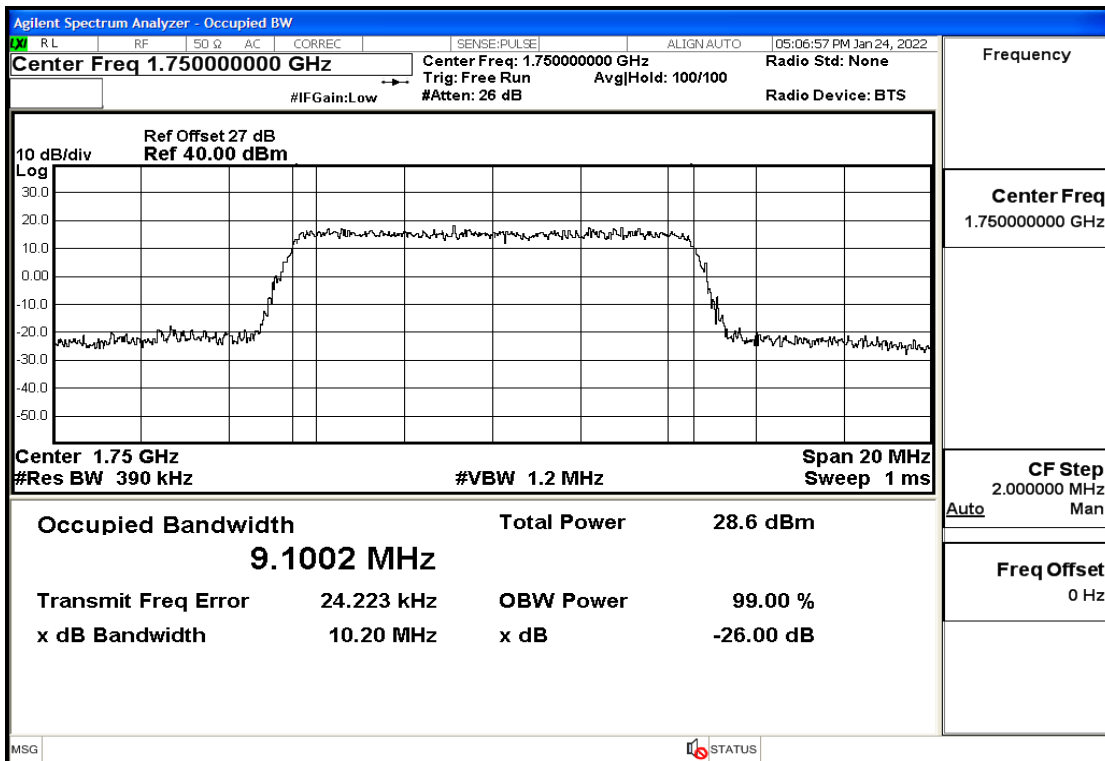
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



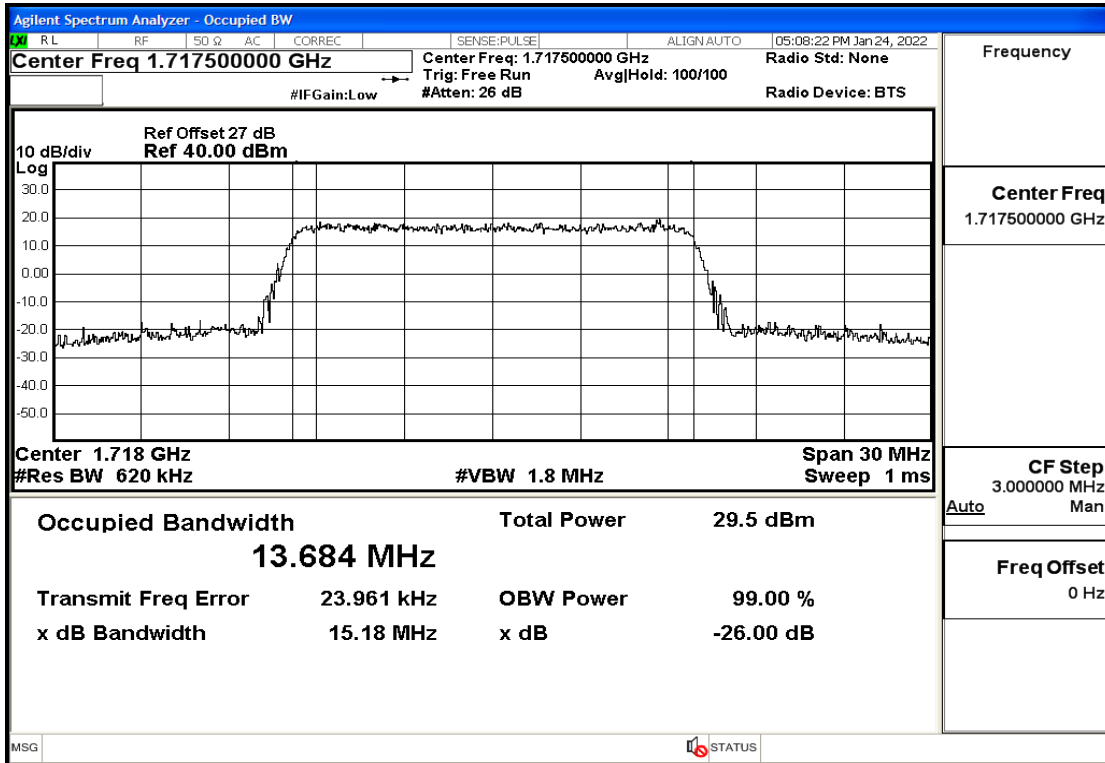
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



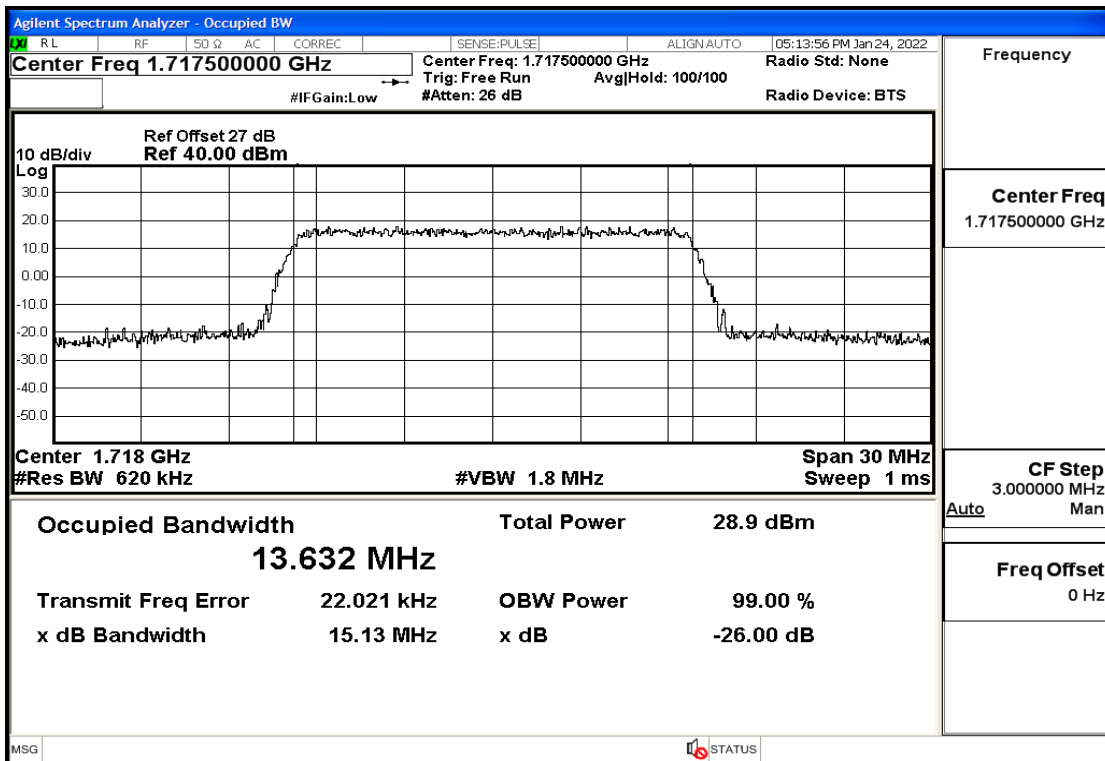
Band4-10-1750-16QAM-50#LOW@26dB and 99PCT Bandwidth



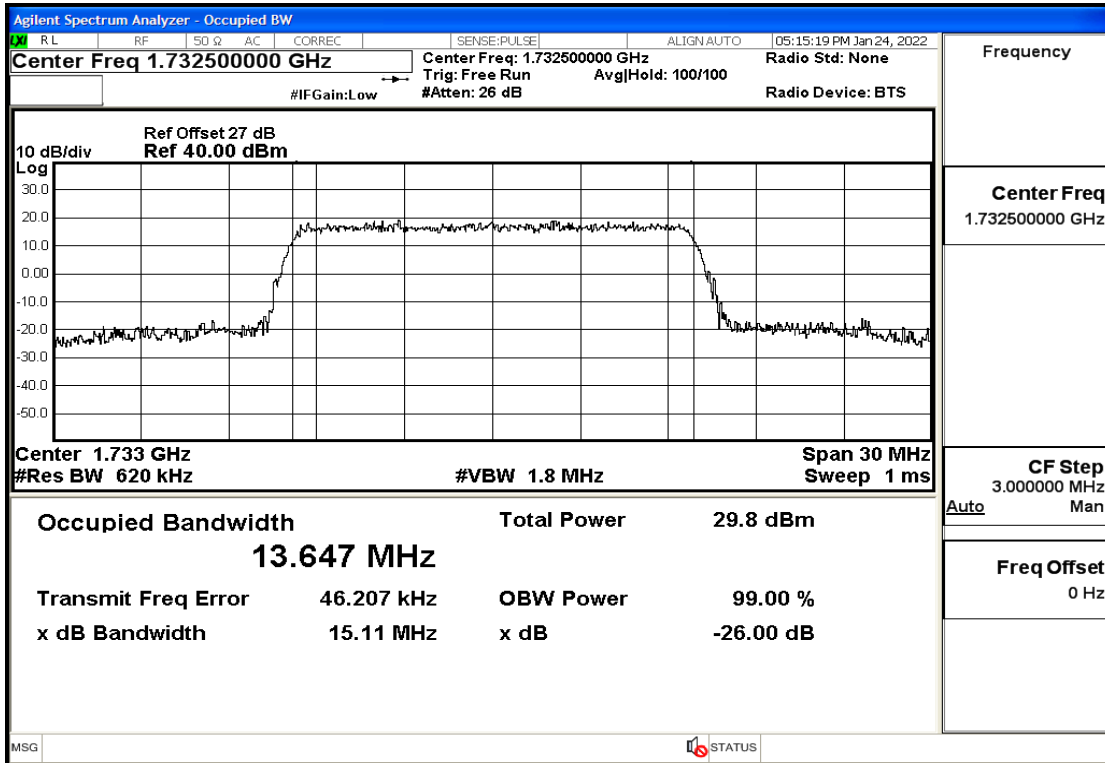
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



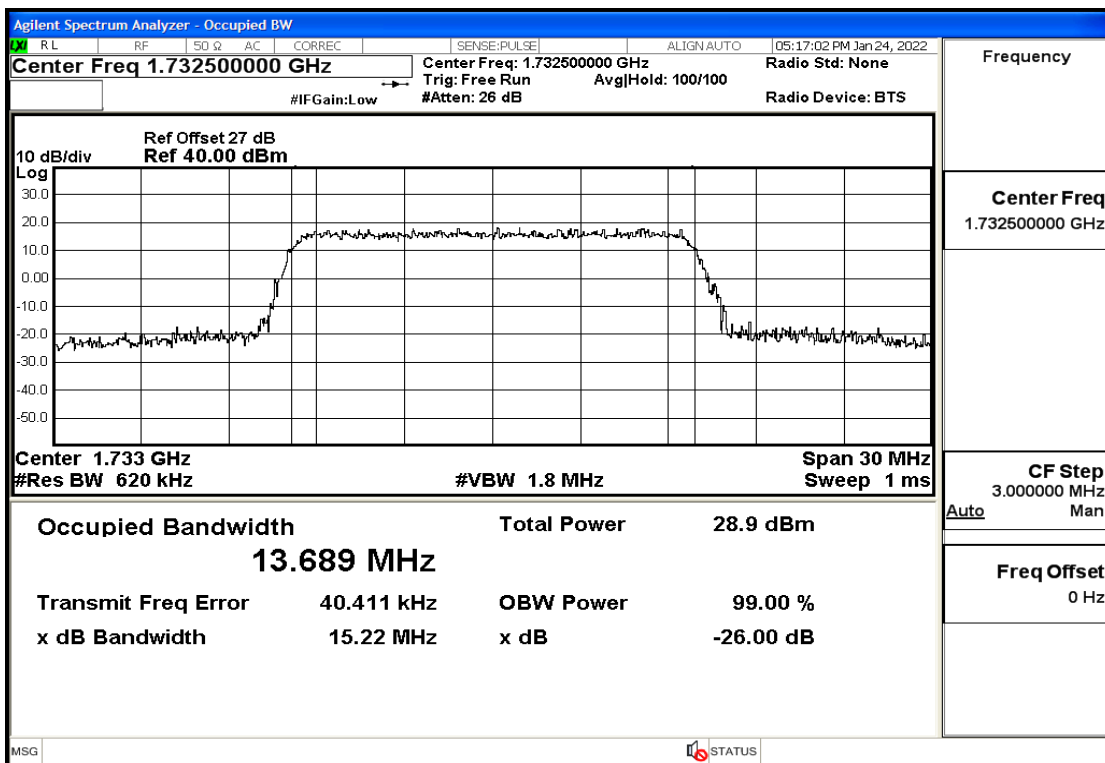
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



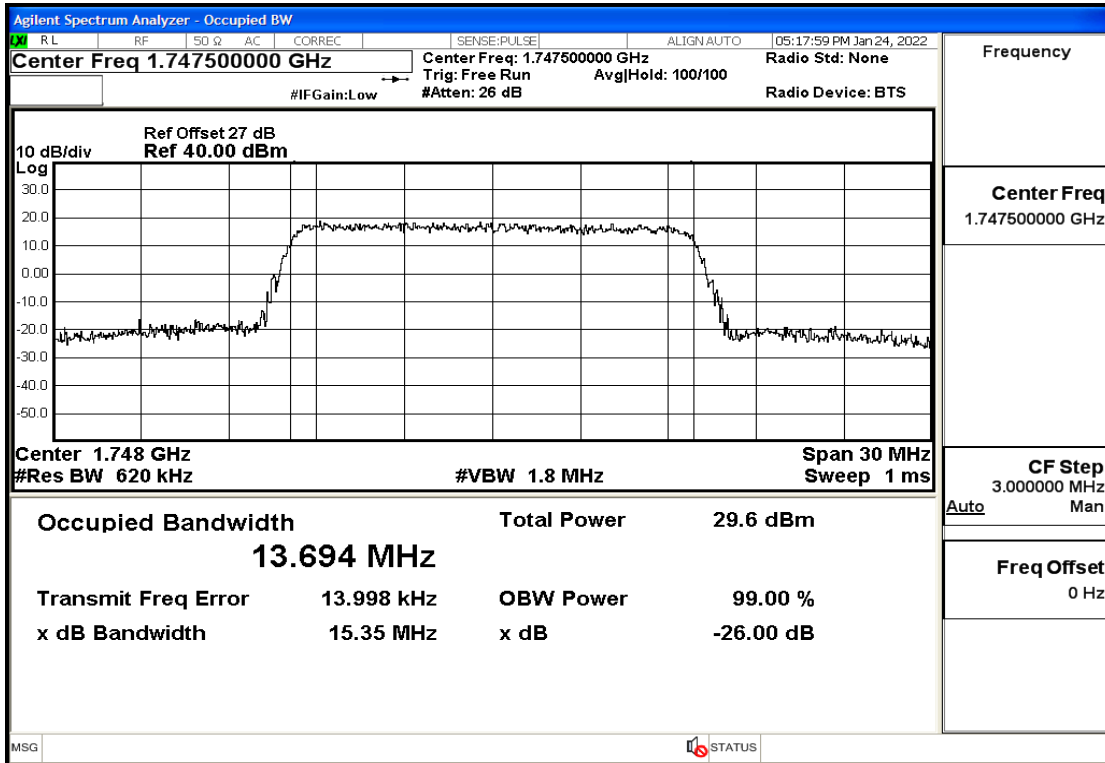
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



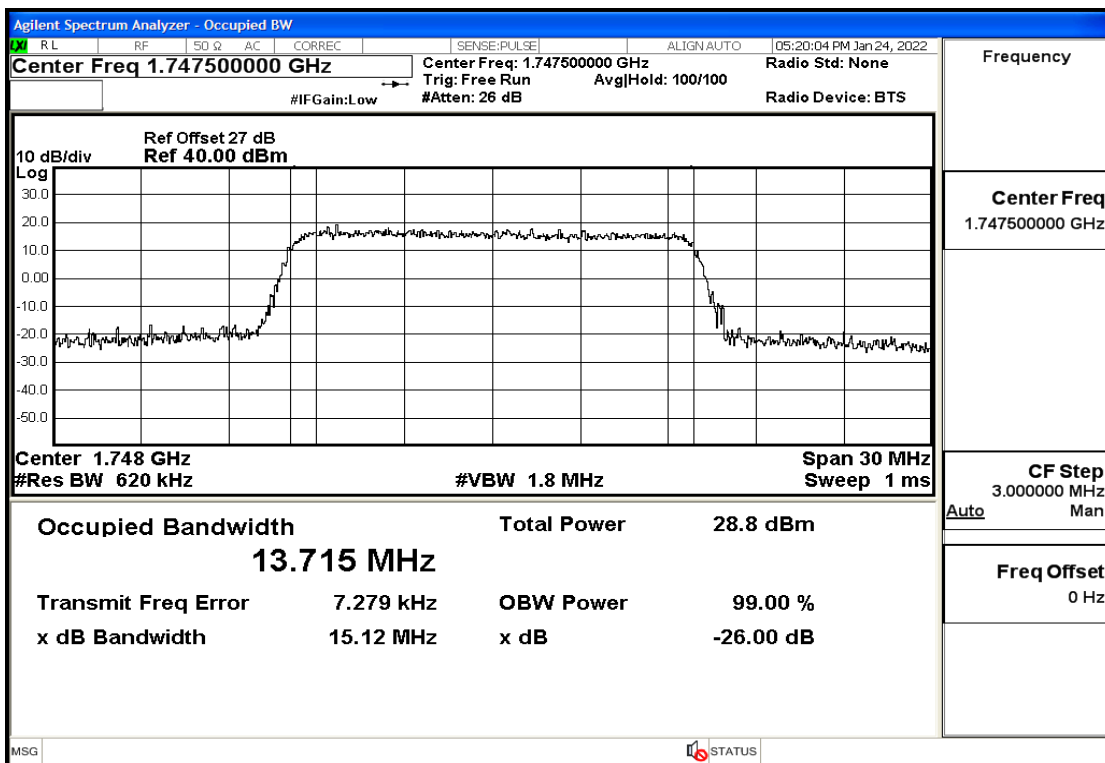
Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



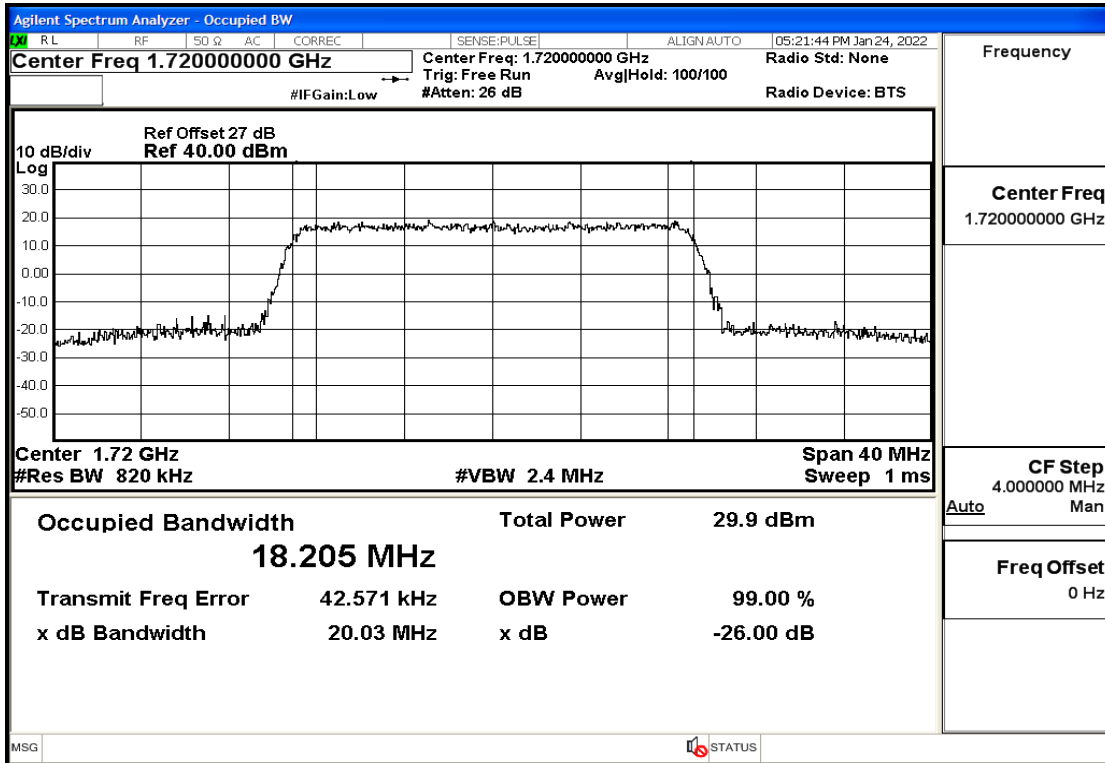
Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



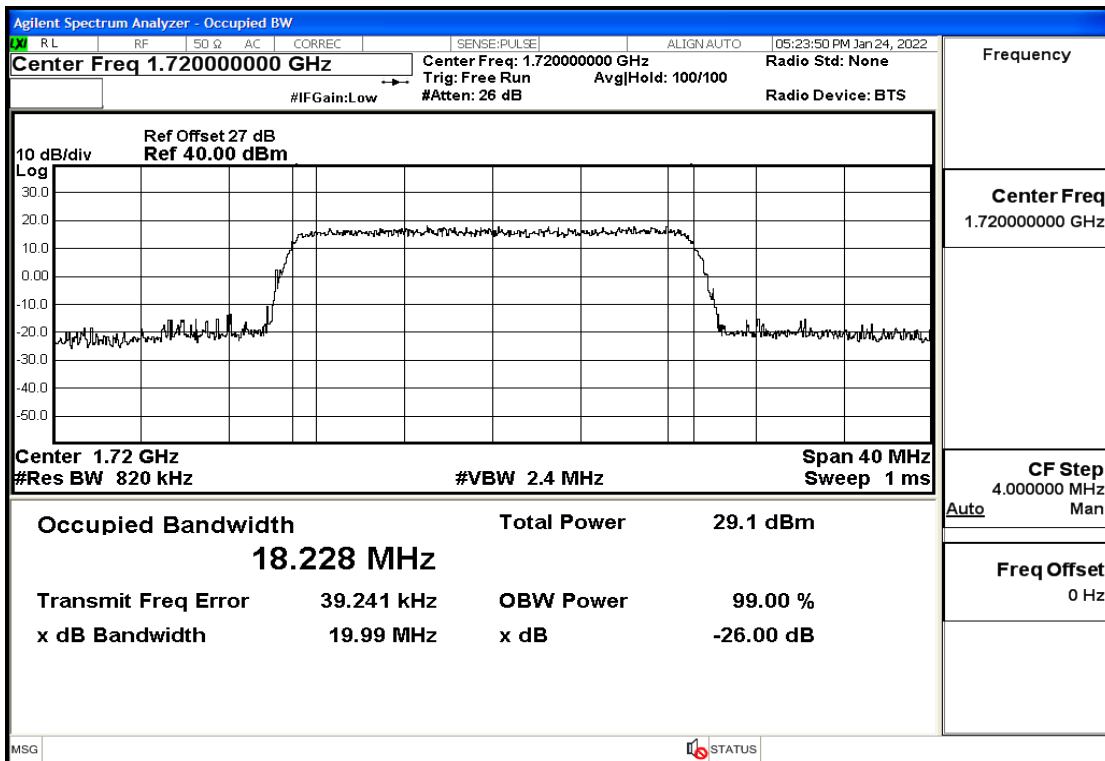
Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



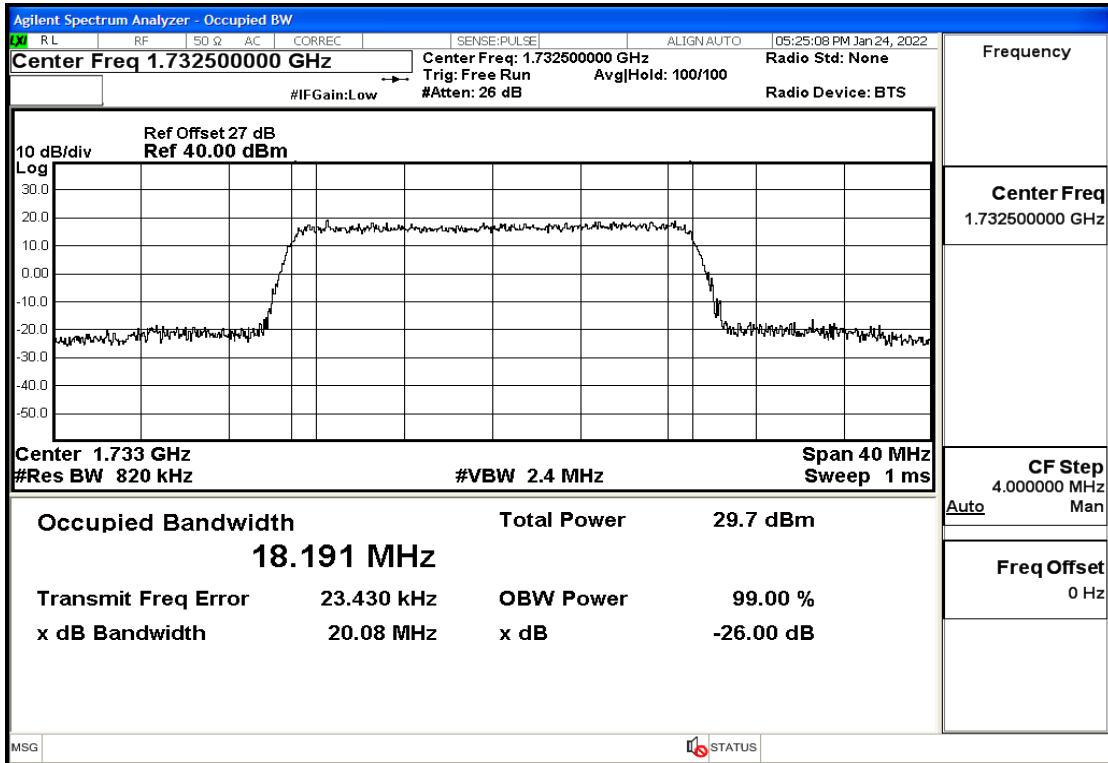
Band4-20-1720-QPSK-100#LOW@26dB and 99PCT Bandwidth



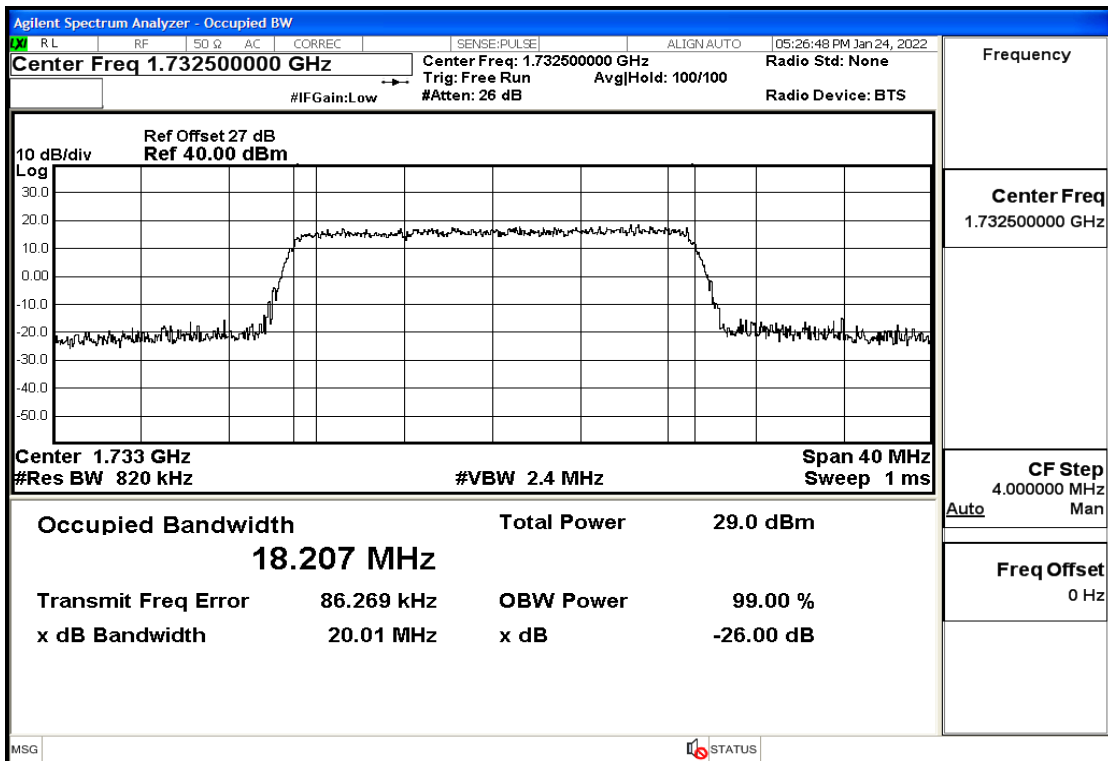
Band4-20-1720-16QAM-100#LOW@26dB and 99PCT Bandwidth



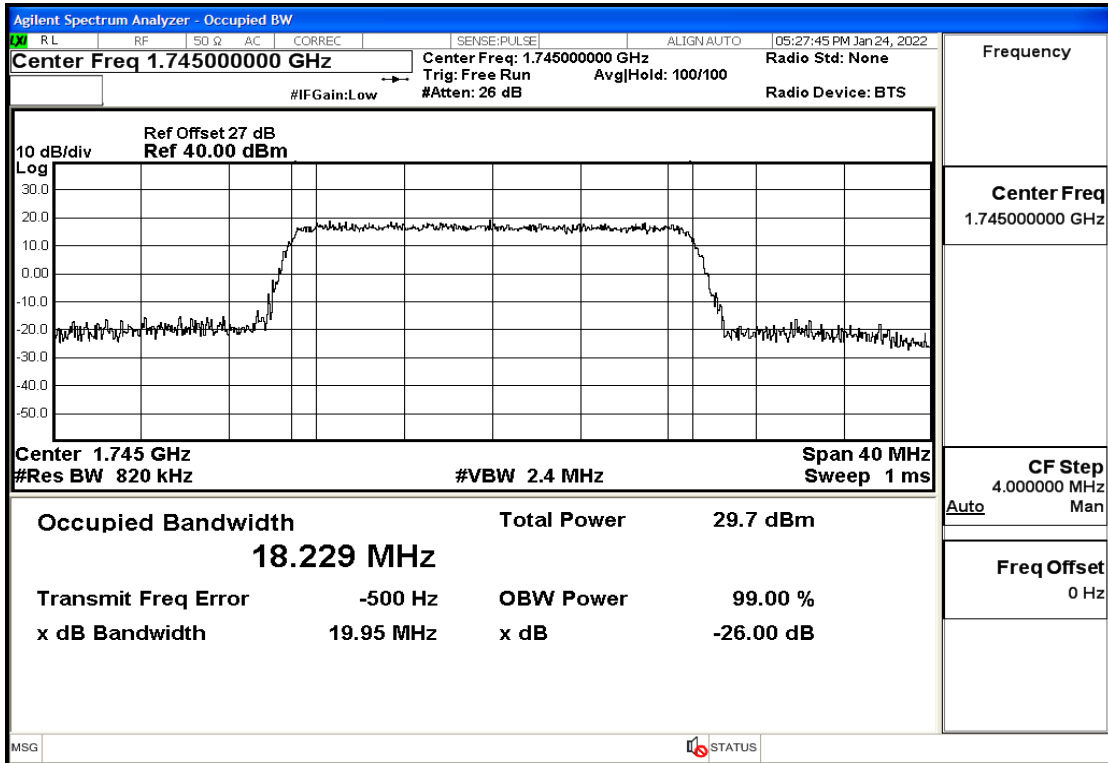
Band4-20-1732.5-QPSK-100#LOW@26dB and 99PCT Bandwidth



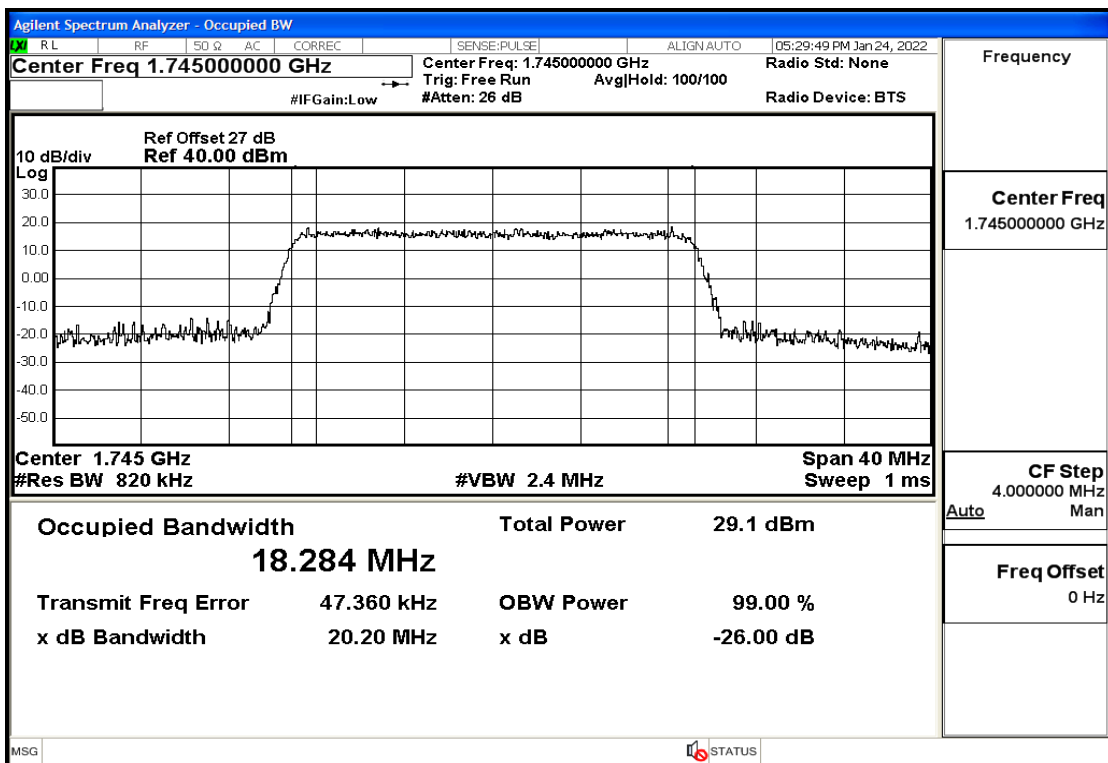
Band4-20-1732.5-16QAM-100#LOW@26dB and 99PCT Bandwidth



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	0.0573	PASS
40	Normal Voltage	0.0399	
30	Normal Voltage	0.0164	
20(Ref.)	Normal Voltage	0.0263	
10	Normal Voltage	0.0573	
0	Normal Voltage	0.0197	
-10	Normal Voltage	0.0412	
-20	Normal Voltage	0.0381	
-30	Normal Voltage	0.0186	
20	Maximum Voltage	0.0192	
20	Normal Voltage	0.0290	
20	Battery End Point	0.0578	

## 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	22.81	27.19	4.38	13	0.83	23.64	30	Pass
Band4	1.4	1710.7	QPSK	3	LOW	22.64	27.38	4.74	13	0.83	23.47	30	Pass
Band4	1.4	1710.7	QPSK	3	MID	22.64	27.43	4.79	13	0.83	23.47	30	Pass
Band4	1.4	1710.7	QPSK	3	HIGH	22.67	27.39	4.72	13	0.83	23.5	30	Pass
Band4	1.4	1710.7	QPSK	1	LOW	22.62	27.06	4.44	13	0.83	23.45	30	Pass
Band4	1.4	1710.7	QPSK	1	MID	22.78	27.22	4.44	13	0.83	23.61	30	Pass
Band4	1.4	1710.7	QPSK	1	HIGH	22.72	27.25	4.53	13	0.83	23.55	30	Pass
Band4	1.4	1710.7	16QAM	6	LOW	20.95	27.51	6.56	13	0.83	21.78	30	Pass
Band4	1.4	1710.7	16QAM	3	LOW	21.97	27.16	5.19	13	0.83	22.8	30	Pass
Band4	1.4	1710.7	16QAM	3	MID	21.97	27.2	5.23	13	0.83	22.8	30	Pass
Band4	1.4	1710.7	16QAM	3	HIGH	21.93	27.32	5.39	13	0.83	22.76	30	Pass
Band4	1.4	1710.7	16QAM	1	LOW	22.62	27.17	4.55	13	0.83	23.45	30	Pass
Band4	1.4	1710.7	16QAM	1	MID	22.62	27.18	4.56	13	0.83	23.45	30	Pass
Band4	1.4	1710.7	16QAM	1	HIGH	22.63	27.2	4.57	13	0.83	23.46	30	Pass
Band4	1.4	1732.5	QPSK	6	LOW	21.6	27.23	5.63	13	0.83	22.43	30	Pass
Band4	1.4	1732.5	QPSK	3	LOW	22.56	27.54	4.98	13	0.83	23.39	30	Pass
Band4	1.4	1732.5	QPSK	3	MID	22.55	27.51	4.96	13	0.83	23.38	30	Pass
Band4	1.4	1732.5	QPSK	3	HIGH	22.57	27.48	4.91	13	0.83	23.4	30	Pass
Band4	1.4	1732.5	QPSK	1	LOW	22.5	27.21	4.71	13	0.83	23.33	30	Pass
Band4	1.4	1732.5	QPSK	1	MID	22.52	27.15	4.63	13	0.83	23.35	30	Pass
Band4	1.4	1732.5	QPSK	1	HIGH	22.55	27.22	4.67	13	0.83	23.38	30	Pass
Band4	1.4	1732.5	16QAM	6	LOW	20.79	27.43	6.64	13	0.83	21.62	30	Pass
Band4	1.4	1732.5	16QAM	3	LOW	21.55	27.55	6	13	0.83	22.38	30	Pass
Band4	1.4	1732.5	16QAM	3	MID	21.68	27.57	5.89	13	0.83	22.51	30	Pass
Band4	1.4	1732.5	16QAM	3	HIGH	21.58	27.64	6.06	13	0.83	22.41	30	Pass
Band4	1.4	1732.5	16QAM	1	LOW	22.44	26.96	4.52	13	0.83	23.27	30	Pass
Band4	1.4	1732.5	16QAM	1	MID	22.51	26.9	4.39	13	0.83	23.34	30	Pass
Band4	1.4	1732.5	16QAM	1	HIGH	22.35	26.86	4.51	13	0.83	23.18	30	Pass
Band4	1.4	1754.3	QPSK	6	LOW	21.33	27.15	5.82	13	0.83	22.16	30	Pass
Band4	1.4	1754.3	QPSK	3	LOW	22.61	27.71	5.1	13	0.83	23.44	30	Pass
Band4	1.4	1754.3	QPSK	3	MID	22.6	27.66	5.06	13	0.83	23.43	30	Pass
Band4	1.4	1754.3	QPSK	3	HIGH	22.58	27.69	5.11	13	0.83	23.41	30	Pass
Band4	1.4	1754.3	QPSK	1	LOW	22.72	27.28	4.56	13	0.83	23.55	30	Pass
Band4	1.4	1754.3	QPSK	1	MID	22.62	27.22	4.6	13	0.83	23.45	30	Pass
Band4	1.4	1754.3	QPSK	1	HIGH	22.66	27.29	4.63	13	0.83	23.49	30	Pass
Band4	1.4	1754.3	16QAM	6	LOW	20.79	27.47	6.68	13	0.83	21.62	30	Pass
Band4	1.4	1754.3	16QAM	3	LOW	21.43	27.52	6.09	13	0.83	22.26	30	Pass
Band4	1.4	1754.3	16QAM	3	MID	21.43	27.53	6.1	13	0.83	22.26	30	Pass
Band4	1.4	1754.3	16QAM	3	HIGH	21.56	27.52	5.96	13	0.83	22.39	30	Pass
Band4	1.4	1754.3	16QAM	1	LOW	21.82	26.74	4.92	13	0.83	22.65	30	Pass

Band4	1.4	1754.3	16QAM	1	MID	21.84	26.71	4.87	13	0.83	22.67	30	Pass
Band4	1.4	1754.3	16QAM	1	HIGH	21.77	26.68	4.91	13	0.83	22.6	30	Pass
Band4	3	1711.5	QPSK	15	LOW	21.74	27.46	5.72	13	0.83	22.57	30	Pass
Band4	3	1711.5	QPSK	8	LOW	21.71	27.11	5.4	13	0.83	22.54	30	Pass
Band4	3	1711.5	QPSK	8	MID	21.71	27.04	5.33	13	0.83	22.54	30	Pass
Band4	3	1711.5	QPSK	8	HIGH	21.61	27.14	5.53	13	0.83	22.44	30	Pass
Band4	3	1711.5	QPSK	1	LOW	22.53	26.73	4.2	13	0.83	23.36	30	Pass
Band4	3	1711.5	QPSK	1	MID	22.64	26.93	4.29	13	0.83	23.47	30	Pass
Band4	3	1711.5	QPSK	1	HIGH	22.65	26.98	4.33	13	0.83	23.48	30	Pass
Band4	3	1711.5	16QAM	15	LOW	20.94	27.23	6.29	13	0.83	21.77	30	Pass
Band4	3	1711.5	16QAM	8	LOW	20.98	27.24	6.26	13	0.83	21.81	30	Pass
Band4	3	1711.5	16QAM	8	MID	20.98	27.06	6.08	13	0.83	21.81	30	Pass
Band4	3	1711.5	16QAM	8	HIGH	21.02	27.25	6.23	13	0.83	21.85	30	Pass
Band4	3	1711.5	16QAM	1	LOW	22.01	27.18	5.17	13	0.83	22.84	30	Pass
Band4	3	1711.5	16QAM	1	MID	22.03	27.29	5.26	13	0.83	22.86	30	Pass
Band4	3	1711.5	16QAM	1	HIGH	22.03	27.34	5.31	13	0.83	22.86	30	Pass
Band4	3	1732.5	QPSK	15	LOW	21.51	27.56	6.05	13	0.83	22.34	30	Pass
Band4	3	1732.5	QPSK	8	LOW	21.39	27.26	5.87	13	0.83	22.22	30	Pass
Band4	3	1732.5	QPSK	8	MID	21.39	27.35	5.96	13	0.83	22.22	30	Pass
Band4	3	1732.5	QPSK	8	HIGH	21.45	27.26	5.81	13	0.83	22.28	30	Pass
Band4	3	1732.5	QPSK	1	LOW	22.49	27.27	4.78	13	0.83	23.32	30	Pass
Band4	3	1732.5	QPSK	1	MID	22.6	27.22	4.62	13	0.83	23.43	30	Pass
Band4	3	1732.5	QPSK	1	HIGH	22.5	27.11	4.61	13	0.83	23.33	30	Pass
Band4	3	1732.5	16QAM	15	LOW	20.85	28.08	7.23	13	0.83	21.68	30	Pass
Band4	3	1732.5	16QAM	8	LOW	20.68	27.08	6.4	13	0.83	21.51	30	Pass
Band4	3	1732.5	16QAM	8	MID	20.68	27.2	6.52	13	0.83	21.51	30	Pass
Band4	3	1732.5	16QAM	8	HIGH	20.75	26.95	6.2	13	0.83	21.58	30	Pass
Band4	3	1732.5	16QAM	1	LOW	22.44	27.52	5.08	13	0.83	23.27	30	Pass
Band4	3	1732.5	16QAM	1	MID	22.46	27.51	5.05	13	0.83	23.29	30	Pass
Band4	3	1732.5	16QAM	1	HIGH	22.46	26.98	4.52	13	0.83	23.29	30	Pass
Band4	3	1753.5	QPSK	15	LOW	21.41	27.95	6.54	13	0.83	22.24	30	Pass
Band4	3	1753.5	QPSK	8	LOW	21.52	27.5	5.98	13	0.83	22.35	30	Pass
Band4	3	1753.5	QPSK	8	MID	21.52	27.48	5.96	13	0.83	22.35	30	Pass
Band4	3	1753.5	QPSK	8	HIGH	21.45	27.31	5.86	13	0.83	22.28	30	Pass
Band4	3	1753.5	QPSK	1	LOW	22.74	27.31	4.57	13	0.83	23.57	30	Pass
Band4	3	1753.5	QPSK	1	MID	22.65	27.25	4.6	13	0.83	23.48	30	Pass
Band4	3	1753.5	QPSK	1	HIGH	22.8	27.29	4.49	13	0.83	23.63	30	Pass
Band4	3	1753.5	16QAM	15	LOW	20.7	27.35	6.65	13	0.83	21.53	30	Pass
Band4	3	1753.5	16QAM	8	LOW	20.81	26.95	6.14	13	0.83	21.64	30	Pass
Band4	3	1753.5	16QAM	8	MID	20.95	27.31	6.36	13	0.83	21.78	30	Pass
Band4	3	1753.5	16QAM	8	HIGH	20.86	27.21	6.35	13	0.83	21.69	30	Pass
Band4	3	1753.5	16QAM	1	LOW	21.85	26.77	4.92	13	0.83	22.68	30	Pass
Band4	3	1753.5	16QAM	1	MID	21.85	26.73	4.88	13	0.83	22.68	30	Pass
Band4	3	1753.5	16QAM	1	HIGH	21.79	26.67	4.88	13	0.83	22.62	30	Pass
Band4	5	1712.5	QPSK	25	LOW	21.67	27.67	6	13	0.83	22.5	30	Pass
Band4	5	1712.5	QPSK	12	LOW	21.64	27.13	5.49	13	0.83	22.47	30	Pass

Band4	5	1712.5	QPSK	12	MID	21.65	26.93	5.28	13	0.83	22.48	30	Pass
Band4	5	1712.5	QPSK	12	HIGH	21.66	27.22	5.56	13	0.83	22.49	30	Pass
Band4	5	1712.5	QPSK	1	LOW	22.69	27.32	4.63	13	0.83	23.52	30	Pass
Band4	5	1712.5	QPSK	1	MID	22.67	27.54	4.87	13	0.83	23.5	30	Pass
Band4	5	1712.5	QPSK	1	HIGH	22.66	27.71	5.05	13	0.83	23.49	30	Pass
Band4	5	1712.5	16QAM	25	LOW	20.87	27.95	7.08	13	0.83	21.7	30	Pass
Band4	5	1712.5	16QAM	12	LOW	20.84	27.37	6.53	13	0.83	21.67	30	Pass
Band4	5	1712.5	16QAM	12	MID	20.85	27.33	6.48	13	0.83	21.68	30	Pass
Band4	5	1712.5	16QAM	12	HIGH	20.87	27.45	6.58	13	0.83	21.7	30	Pass
Band4	5	1712.5	16QAM	1	LOW	21.23	26.51	5.28	13	0.83	22.06	30	Pass
Band4	5	1712.5	16QAM	1	MID	21.11	26.56	5.45	13	0.83	21.94	30	Pass
Band4	5	1712.5	16QAM	1	HIGH	21.12	26.68	5.56	13	0.83	21.95	30	Pass
Band4	5	1732.5	QPSK	25	LOW	21.54	27.92	6.38	13	0.83	22.37	30	Pass
Band4	5	1732.5	QPSK	12	LOW	21.4	27.63	6.23	13	0.83	22.23	30	Pass
Band4	5	1732.5	QPSK	12	MID	21.4	27.62	6.22	13	0.83	22.23	30	Pass
Band4	5	1732.5	QPSK	12	HIGH	21.49	27.51	6.02	13	0.83	22.32	30	Pass
Band4	5	1732.5	QPSK	1	LOW	22.65	27.37	4.72	13	0.83	23.48	30	Pass
Band4	5	1732.5	QPSK	1	MID	22.67	27.22	4.55	13	0.83	23.5	30	Pass
Band4	5	1732.5	QPSK	1	HIGH	22.61	27.08	4.47	13	0.83	23.44	30	Pass
Band4	5	1732.5	16QAM	25	LOW	20.55	28.38	7.83	13	0.83	21.38	30	Pass
Band4	5	1732.5	16QAM	12	LOW	20.65	27.29	6.64	13	0.83	21.48	30	Pass
Band4	5	1732.5	16QAM	12	MID	20.66	27.19	6.53	13	0.83	21.49	30	Pass
Band4	5	1732.5	16QAM	12	HIGH	20.74	27.19	6.45	13	0.83	21.57	30	Pass
Band4	5	1732.5	16QAM	1	LOW	21.82	27.27	5.45	13	0.83	22.65	30	Pass
Band4	5	1732.5	16QAM	1	MID	21.87	27.13	5.26	13	0.83	22.7	30	Pass
Band4	5	1732.5	16QAM	1	HIGH	21.83	26.99	5.16	13	0.83	22.66	30	Pass
Band4	5	1752.5	QPSK	25	LOW	21.43	27.44	6.01	13	0.83	22.26	30	Pass
Band4	5	1752.5	QPSK	12	LOW	21.56	27.25	5.69	13	0.83	22.39	30	Pass
Band4	5	1752.5	QPSK	12	MID	21.56	27.25	5.69	13	0.83	22.39	30	Pass
Band4	5	1752.5	QPSK	12	HIGH	21.59	27.26	5.67	13	0.83	22.42	30	Pass
Band4	5	1752.5	QPSK	1	LOW	22.34	27.34	5	13	0.83	23.17	30	Pass
Band4	5	1752.5	QPSK	1	MID	22.4	27.38	4.98	13	0.83	23.23	30	Pass
Band4	5	1752.5	QPSK	1	HIGH	22.36	27.36	5	13	0.83	23.19	30	Pass
Band4	5	1752.5	16QAM	25	LOW	20.6	28.22	7.62	13	0.83	21.43	30	Pass
Band4	5	1752.5	16QAM	12	LOW	20.36	27.09	6.73	13	0.83	21.19	30	Pass
Band4	5	1752.5	16QAM	12	MID	20.5	27.2	6.7	13	0.83	21.33	30	Pass
Band4	5	1752.5	16QAM	12	HIGH	20.45	27.04	6.59	13	0.83	21.28	30	Pass
Band4	5	1752.5	16QAM	1	LOW	21.06	27.14	6.08	13	0.83	21.89	30	Pass
Band4	5	1752.5	16QAM	1	MID	21.01	27.1	6.09	13	0.83	21.84	30	Pass
Band4	5	1752.5	16QAM	1	HIGH	21	27.12	6.12	13	0.83	21.83	30	Pass
Band4	10	1715	QPSK	50	LOW	21.66	27.88	6.22	13	0.83	22.49	30	Pass
Band4	10	1715	QPSK	25	LOW	21.58	27.27	5.69	13	0.83	22.41	30	Pass
Band4	10	1715	QPSK	25	MID	21.58	27.31	5.73	13	0.83	22.41	30	Pass
Band4	10	1715	QPSK	25	HIGH	21.5	27.63	6.13	13	0.83	22.33	30	Pass
Band4	10	1715	QPSK	1	LOW	22.55	26.78	4.23	13	0.83	23.38	30	Pass
Band4	10	1715	QPSK	1	MID	22.62	27.13	4.51	13	0.83	23.45	30	Pass

Band4	10	1715	QPSK	1	HIGH	22.6	27.36	4.76	13	0.83	23.43	30	Pass
Band4	10	1715	16QAM	50	LOW	20.65	27.99	7.34	13	0.83	21.48	30	Pass
Band4	10	1715	16QAM	25	LOW	20.83	27.41	6.58	13	0.83	21.66	30	Pass
Band4	10	1715	16QAM	25	MID	20.84	27.42	6.58	13	0.83	21.67	30	Pass
Band4	10	1715	16QAM	25	HIGH	20.72	27.6	6.88	13	0.83	21.55	30	Pass
Band4	10	1715	16QAM	1	LOW	22.1	27.24	5.14	13	0.83	22.93	30	Pass
Band4	10	1715	16QAM	1	MID	22	27.52	5.52	13	0.83	22.83	30	Pass
Band4	10	1715	16QAM	1	HIGH	22.02	27.86	5.84	13	0.83	22.85	30	Pass
Band4	10	1732.5	QPSK	50	LOW	21.47	27.73	6.26	13	0.83	22.3	30	Pass
Band4	10	1732.5	QPSK	25	LOW	21.31	27.38	6.07	13	0.83	22.14	30	Pass
Band4	10	1732.5	QPSK	25	MID	21.46	27.48	6.02	13	0.83	22.29	30	Pass
Band4	10	1732.5	QPSK	25	HIGH	21.5	27.26	5.76	13	0.83	22.33	30	Pass
Band4	10	1732.5	QPSK	1	LOW	22.74	27.53	4.79	13	0.83	23.57	30	Pass
Band4	10	1732.5	QPSK	1	MID	22.66	27.25	4.59	13	0.83	23.49	30	Pass
Band4	10	1732.5	QPSK	1	HIGH	22.71	27.12	4.41	13	0.83	23.54	30	Pass
Band4	10	1732.5	16QAM	50	LOW	20.86	27.59	6.73	13	0.83	21.69	30	Pass
Band4	10	1732.5	16QAM	25	LOW	20.79	27.77	6.98	13	0.83	21.62	30	Pass
Band4	10	1732.5	16QAM	25	MID	20.79	27.87	7.08	13	0.83	21.62	30	Pass
Band4	10	1732.5	16QAM	25	HIGH	20.78	27.48	6.7	13	0.83	21.61	30	Pass
Band4	10	1732.5	16QAM	1	LOW	21.87	27.32	5.45	13	0.83	22.7	30	Pass
Band4	10	1732.5	16QAM	1	MID	21.85	26.58	4.73	13	0.83	22.68	30	Pass
Band4	10	1732.5	16QAM	1	HIGH	21.75	26.67	4.92	13	0.83	22.58	30	Pass
Band4	10	1750	QPSK	50	LOW	21.58	27.35	5.77	13	0.83	22.41	30	Pass
Band4	10	1750	QPSK	25	LOW	21.7	27.76	6.06	13	0.83	22.53	30	Pass
Band4	10	1750	QPSK	25	MID	21.71	27.84	6.13	13	0.83	22.54	30	Pass
Band4	10	1750	QPSK	25	HIGH	21.57	27.76	6.19	13	0.83	22.4	30	Pass
Band4	10	1750	QPSK	1	LOW	22.76	27.16	4.4	13	0.83	23.59	30	Pass
Band4	10	1750	QPSK	1	MID	22.74	27.32	4.58	13	0.83	23.57	30	Pass
Band4	10	1750	QPSK	1	HIGH	22.82	27.35	4.53	13	0.83	23.65	30	Pass
Band4	10	1750	16QAM	50	LOW	20.63	27.96	7.33	13	0.83	21.46	30	Pass
Band4	10	1750	16QAM	25	LOW	20.63	27.39	6.76	13	0.83	21.46	30	Pass
Band4	10	1750	16QAM	25	MID	20.64	27.42	6.78	13	0.83	21.47	30	Pass
Band4	10	1750	16QAM	25	HIGH	20.64	27.51	6.87	13	0.83	21.47	30	Pass
Band4	10	1750	16QAM	1	LOW	21.22	26.25	5.03	13	0.83	22.05	30	Pass
Band4	10	1750	16QAM	1	MID	21.24	26.43	5.19	13	0.83	22.07	30	Pass
Band4	10	1750	16QAM	1	HIGH	21.38	26.47	5.09	13	0.83	22.21	30	Pass
Band4	15	1717.5	QPSK	75	LOW	21.61	28.41	6.8	13	0.83	22.44	30	Pass
Band4	15	1717.5	QPSK	38	LOW	21.48	28.23	6.75	13	0.83	22.31	30	Pass
Band4	15	1717.5	QPSK	38	MID	21.47	28.26	6.79	13	0.83	22.3	30	Pass
Band4	15	1717.5	QPSK	38	HIGH	21.46	28.31	6.85	13	0.83	22.29	30	Pass
Band4	15	1717.5	QPSK	1	LOW	22.7	26.94	4.24	13	0.83	23.53	30	Pass
Band4	15	1717.5	QPSK	1	MID	22.65	27.34	4.69	13	0.83	23.48	30	Pass
Band4	15	1717.5	QPSK	1	HIGH	22.68	27.52	4.84	13	0.83	23.51	30	Pass
Band4	15	1717.5	16QAM	75	LOW	20.69	27.95	7.26	13	0.83	21.52	30	Pass
Band4	15	1717.5	16QAM	38	LOW	20.77	27.97	7.2	13	0.83	21.6	30	Pass
Band4	15	1717.5	16QAM	38	MID	20.76	28.07	7.31	13	0.83	21.59	30	Pass

Band4	15	1717.5	16QAM	38	HIGH	20.77	28.07	7.3	13	0.83	21.6	30	Pass
Band4	15	1717.5	16QAM	1	LOW	22.45	27.76	5.31	13	0.83	23.28	30	Pass
Band4	15	1717.5	16QAM	1	MID	22.33	27.89	5.56	13	0.83	23.16	30	Pass
Band4	15	1717.5	16QAM	1	HIGH	22.36	28.12	5.76	13	0.83	23.19	30	Pass
Band4	15	1732.5	QPSK	75	LOW	21.41	27.91	6.5	13	0.83	22.24	30	Pass
Band4	15	1732.5	QPSK	38	LOW	21.54	28.1	6.56	13	0.83	22.37	30	Pass
Band4	15	1732.5	QPSK	38	MID	21.55	28.21	6.66	13	0.83	22.38	30	Pass
Band4	15	1732.5	QPSK	38	HIGH	21.55	28.15	6.6	13	0.83	22.38	30	Pass
Band4	15	1732.5	QPSK	1	LOW	22.69	27.67	4.98	13	0.83	23.52	30	Pass
Band4	15	1732.5	QPSK	1	MID	22.62	27.26	4.64	13	0.83	23.45	30	Pass
Band4	15	1732.5	QPSK	1	HIGH	22.6	27.06	4.46	13	0.83	23.43	30	Pass
Band4	15	1732.5	16QAM	75	LOW	20.63	27.89	7.26	13	0.83	21.46	30	Pass
Band4	15	1732.5	16QAM	38	LOW	20.71	27.95	7.24	13	0.83	21.54	30	Pass
Band4	15	1732.5	16QAM	38	MID	20.72	27.96	7.24	13	0.83	21.55	30	Pass
Band4	15	1732.5	16QAM	38	HIGH	20.73	27.97	7.24	13	0.83	21.56	30	Pass
Band4	15	1732.5	16QAM	1	LOW	21.82	27.73	5.91	13	0.83	22.65	30	Pass
Band4	15	1732.5	16QAM	1	MID	21.83	26.54	4.71	13	0.83	22.66	30	Pass
Band4	15	1732.5	16QAM	1	HIGH	21.81	26.84	5.03	13	0.83	22.64	30	Pass
Band4	15	1747.5	QPSK	75	LOW	21.6	28.02	6.42	13	0.83	22.43	30	Pass
Band4	15	1747.5	QPSK	38	LOW	21.66	28.13	6.47	13	0.83	22.49	30	Pass
Band4	15	1747.5	QPSK	38	MID	21.79	27.93	6.14	13	0.83	22.62	30	Pass
Band4	15	1747.5	QPSK	38	HIGH	21.66	27.92	6.26	13	0.83	22.49	30	Pass
Band4	15	1747.5	QPSK	1	LOW	22.61	27.22	4.61	13	0.83	23.44	30	Pass
Band4	15	1747.5	QPSK	1	MID	22.79	27.14	4.35	13	0.83	23.62	30	Pass
Band4	15	1747.5	QPSK	1	HIGH	22.73	27.66	4.93	13	0.83	23.56	30	Pass
Band4	15	1747.5	16QAM	75	LOW	20.61	27.78	7.17	13	0.83	21.44	30	Pass
Band4	15	1747.5	16QAM	38	LOW	20.61	27.77	7.16	13	0.83	21.44	30	Pass
Band4	15	1747.5	16QAM	38	MID	20.62	27.7	7.08	13	0.83	21.45	30	Pass
Band4	15	1747.5	16QAM	38	HIGH	20.61	27.79	7.18	13	0.83	21.44	30	Pass
Band4	15	1747.5	16QAM	1	LOW	22.09	27.11	5.02	13	0.83	22.92	30	Pass
Band4	15	1747.5	16QAM	1	MID	22.2	26.83	4.63	13	0.83	23.03	30	Pass
Band4	15	1747.5	16QAM	1	HIGH	22.07	27.49	5.42	13	0.83	22.9	30	Pass
Band4	20	1720	QPSK	100	LOW	21.75	28.12	6.37	13	0.83	22.58	30	Pass
Band4	20	1720	QPSK	50	LOW	21.76	27.63	5.87	13	0.83	22.59	30	Pass
Band4	20	1720	QPSK	50	MID	21.76	27.63	5.87	13	0.83	22.59	30	Pass
Band4	20	1720	QPSK	50	HIGH	21.44	27.76	6.32	13	0.83	22.27	30	Pass
Band4	20	1720	QPSK	1	LOW	23.02	27.14	4.12	13	0.83	23.85	30	Pass
Band4	20	1720	QPSK	1	MID	22.78	27.66	4.88	13	0.83	23.61	30	Pass
Band4	20	1720	QPSK	1	HIGH	22.93	27.65	4.72	13	0.83	23.76	30	Pass
Band4	20	1720	16QAM	100	LOW	20.66	28.58	7.92	13	0.83	21.49	30	Pass
Band4	20	1720	16QAM	50	LOW	20.84	28	7.16	13	0.83	21.67	30	Pass
Band4	20	1720	16QAM	50	MID	20.85	28.01	7.16	13	0.83	21.68	30	Pass
Band4	20	1720	16QAM	50	HIGH	20.78	28.22	7.44	13	0.83	21.61	30	Pass
Band4	20	1720	16QAM	1	LOW	21.79	27.87	6.08	13	0.83	22.62	30	Pass
Band4	20	1720	16QAM	1	MID	21.78	27.43	5.65	13	0.83	22.61	30	Pass
Band4	20	1720	16QAM	1	HIGH	21.66	28.1	6.44	13	0.83	22.49	30	Pass

Band4	20	1732.5	QPSK	100	LOW	21.53	28.03	6.5	13	0.83	22.36	30	Pass
Band4	20	1732.5	QPSK	50	LOW	21.69	27.73	6.04	13	0.83	22.52	30	Pass
Band4	20	1732.5	QPSK	50	MID	21.69	27.74	6.05	13	0.83	22.52	30	Pass
Band4	20	1732.5	QPSK	50	HIGH	21.42	27.28	5.86	13	0.83	22.25	30	Pass
Band4	20	1732.5	QPSK	1	LOW	23.03	28.62	5.59	13	0.83	23.86	30	Pass
Band4	20	1732.5	QPSK	1	MID	22.69	27.42	4.73	13	0.83	23.52	30	Pass
Band4	20	1732.5	QPSK	1	HIGH	22.8	27.8	5	13	0.83	23.63	30	Pass
Band4	20	1732.5	16QAM	100	LOW	20.63	28	7.37	13	0.83	21.46	30	Pass
Band4	20	1732.5	16QAM	50	LOW	20.66	27.83	7.17	13	0.83	21.49	30	Pass
Band4	20	1732.5	16QAM	50	MID	20.67	27.85	7.18	13	0.83	21.5	30	Pass
Band4	20	1732.5	16QAM	50	HIGH	20.68	27.48	6.8	13	0.83	21.51	30	Pass
Band4	20	1732.5	16QAM	1	LOW	21.86	27.97	6.11	13	0.83	22.69	30	Pass
Band4	20	1732.5	16QAM	1	MID	21.84	27.56	5.72	13	0.83	22.67	30	Pass
Band4	20	1732.5	16QAM	1	HIGH	21.71	27.25	5.54	13	0.83	22.54	30	Pass
Band4	20	1745	QPSK	100	LOW	21.52	27.93	6.41	13	0.83	22.35	30	Pass
Band4	20	1745	QPSK	50	LOW	21.42	27.28	5.86	13	0.83	22.25	30	Pass
Band4	20	1745	QPSK	50	MID	21.43	27.28	5.85	13	0.83	22.26	30	Pass
Band4	20	1745	QPSK	50	HIGH	21.47	27.48	6.01	13	0.83	22.3	30	Pass
Band4	20	1745	QPSK	1	LOW	22.74	27.77	5.03	13	0.83	23.57	30	Pass
Band4	20	1745	QPSK	1	MID	22.56	27.19	4.63	13	0.83	23.39	30	Pass
Band4	20	1745	QPSK	1	HIGH	22.68	27.46	4.78	13	0.83	23.51	30	Pass
Band4	20	1745	16QAM	100	LOW	20.83	27.93	7.1	13	0.83	21.66	30	Pass
Band4	20	1745	16QAM	50	LOW	20.59	27.35	6.76	13	0.83	21.42	30	Pass
Band4	20	1745	16QAM	50	MID	20.61	27.33	6.72	13	0.83	21.44	30	Pass
Band4	20	1745	16QAM	50	HIGH	20.65	27.65	7	13	0.83	21.48	30	Pass
Band4	20	1745	16QAM	1	LOW	22.37	27.35	4.98	13	0.83	23.2	30	Pass
Band4	20	1745	16QAM	1	MID	22.69	27.28	4.59	13	0.83	23.52	30	Pass
Band4	20	1745	16QAM	1	HIGH	22.41	28.17	5.76	13	0.83	23.24	30	Pass