

Appendix – WCDMA Test Data

Table of Contents

Table of Contents	2
1. Conducted output power (EIRP)	3
1.1. Test Data	3
2. Conducted output power (ERP)	5
2.1. Test Data	5
3. Peak-to-Average Ratio	6
3.1. Test Data	6
4. Occupied bandwidth	12
4.1. Test Data	12
5. Band edge	18
5.1. Test Data	18
6. Out-of-band emissions	22
6.1. Test Data	22
7. Frequency stability	28
7.1. Test Data	28

1. Conducted output power (EIRP)

1.1. Test Data

Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	EIRP Limit (mW)	Verdict
WCDMA Band2	9262	1852.4	22.23	0.65	22.88	194.09	2000	PASS
	9400	1880.0	22.32	0.65	22.97	198.15	2000	PASS
	9538	1907.6	22.35	0.65	23.00	199.53	2000	PASS
HSDPA Band2 Subtest1	9262	1852.4	21.97	0.65	22.62	182.81	2000	PASS
	9400	1880.0	22.16	0.65	22.81	190.99	2000	PASS
	9538	1907.6	21.95	0.65	22.60	181.97	2000	PASS
HSDPA Band2 Subtest2	9262	1852.4	20.44	0.65	21.09	128.53	2000	PASS
	9400	1880.0	20.99	0.65	21.64	145.88	2000	PASS
	9538	1907.6	20.41	0.65	21.06	127.64	2000	PASS
HSDPA Band2 Subtest3	9262	1852.4	19.25	0.65	19.90	97.72	2000	PASS
	9400	1880.0	19.99	0.65	20.64	115.88	2000	PASS
	9538	1907.6	19.41	0.65	20.06	101.39	2000	PASS
HSDPA Band2 Subtest4	9262	1852.4	18.67	0.65	19.32	85.51	2000	PASS
	9400	1880.0	18.69	0.65	19.34	85.90	2000	PASS
	9538	1907.6	18.43	0.65	19.08	80.91	2000	PASS
HSUPA Band2 Subtest1	9262	1852.4	19.17	0.65	19.82	95.94	2000	PASS
	9400	1880.0	19.41	0.65	20.06	101.39	2000	PASS
	9538	1907.6	19.23	0.65	19.88	97.27	2000	PASS
HSUPA Band2 Subtest2	9262	1852.4	19.47	0.65	20.12	102.80	2000	PASS
	9400	1880.0	19.70	0.65	20.35	108.39	2000	PASS
	9538	1907.6	19.55	0.65	20.20	104.71	2000	PASS
HSUPA Band2 Subtest3	9262	1852.4	19.68	0.65	20.33	107.89	2000	PASS
	9400	1880.0	19.96	0.65	20.61	115.08	2000	PASS
	9538	1907.6	19.77	0.65	20.42	110.15	2000	PASS
HSUPA Band2 Subtest4	9262	1852.4	20.00	0.65	20.65	116.14	2000	PASS
	9400	1880.0	20.23	0.65	20.88	122.46	2000	PASS
	9538	1907.6	19.99	0.65	20.64	115.88	2000	PASS
HSUPA Band2 Subtest5	9262	1852.4	22.03	0.65	22.68	185.35	2000	PASS
	9400	1880.0	22.21	0.65	22.86	193.20	2000	PASS
	9538	1907.6	22.06	0.65	22.71	186.64	2000	PASS
WCDMA Band4	1312	1712.4	22.28	0.43	22.71	186.64	2000	PASS
	1450	1740.0	22.37	0.43	22.80	190.55	2000	PASS
	1513	1752.6	22.08	0.43	22.51	178.24	2000	PASS
HSDPA Band4 Subtest1	1312	1712.4	20.13	0.43	20.56	113.76	2000	PASS
	1450	1740.0	20.77	0.43	21.20	131.83	2000	PASS
	1513	1752.6	20.04	0.43	20.47	111.43	2000	PASS
HSDPA Band4 Subtest2	1312	1712.4	19.40	0.43	19.83	96.16	2000	PASS
	1450	1740.0	20.22	0.43	20.65	116.14	2000	PASS
	1513	1752.6	19.11	0.43	19.54	89.95	2000	PASS
HSDPA Band4 Subtest3	1312	1712.4	18.54	0.43	18.97	78.89	2000	PASS
	1450	1740.0	19.08	0.43	19.51	89.33	2000	PASS
	1513	1752.6	18.27	0.43	18.70	74.13	2000	PASS
HSDPA Band4 Subtest4	1312	1712.4	17.91	0.43	18.34	68.23	2000	PASS
	1450	1740.0	18.62	0.43	19.05	80.35	2000	PASS
	1513	1752.6	17.87	0.43	18.30	67.61	2000	PASS
HSUPA Band4	1312	1712.4	20.50	0.43	20.93	123.88	2000	PASS

Subtest1	1450	1740.0	20.53	0.43	20.96	124.74	2000	PASS
	1513	1752.6	20.40	0.43	20.83	121.06	2000	PASS
HSUPA Band4 Subtest2	1312	1712.4	19.57	0.43	20.00	100.00	2000	PASS
	1450	1740.0	19.69	0.43	20.12	102.80	2000	PASS
	1513	1752.6	19.41	0.43	19.84	96.38	2000	PASS
HSUPA Band4 Subtest3	1312	1712.4	20.50	0.43	20.93	123.88	2000	PASS
	1450	1740.0	20.56	0.43	20.99	125.60	2000	PASS
	1513	1752.6	20.43	0.43	20.86	121.90	2000	PASS
HSUPA Band4 Subtest4	1312	1712.4	20.11	0.43	20.54	113.24	2000	PASS
	1450	1740.0	20.21	0.43	20.64	115.88	2000	PASS
	1513	1752.6	19.98	0.43	20.41	109.90	2000	PASS
HSUPA Band4 Subtest5	1312	1712.4	22.09	0.43	22.52	178.65	2000	PASS
	1450	1740.0	22.14	0.43	22.57	180.72	2000	PASS
	1513	1752.6	21.97	0.43	22.40	173.78	2000	PASS

2. Conducted output power (ERP)

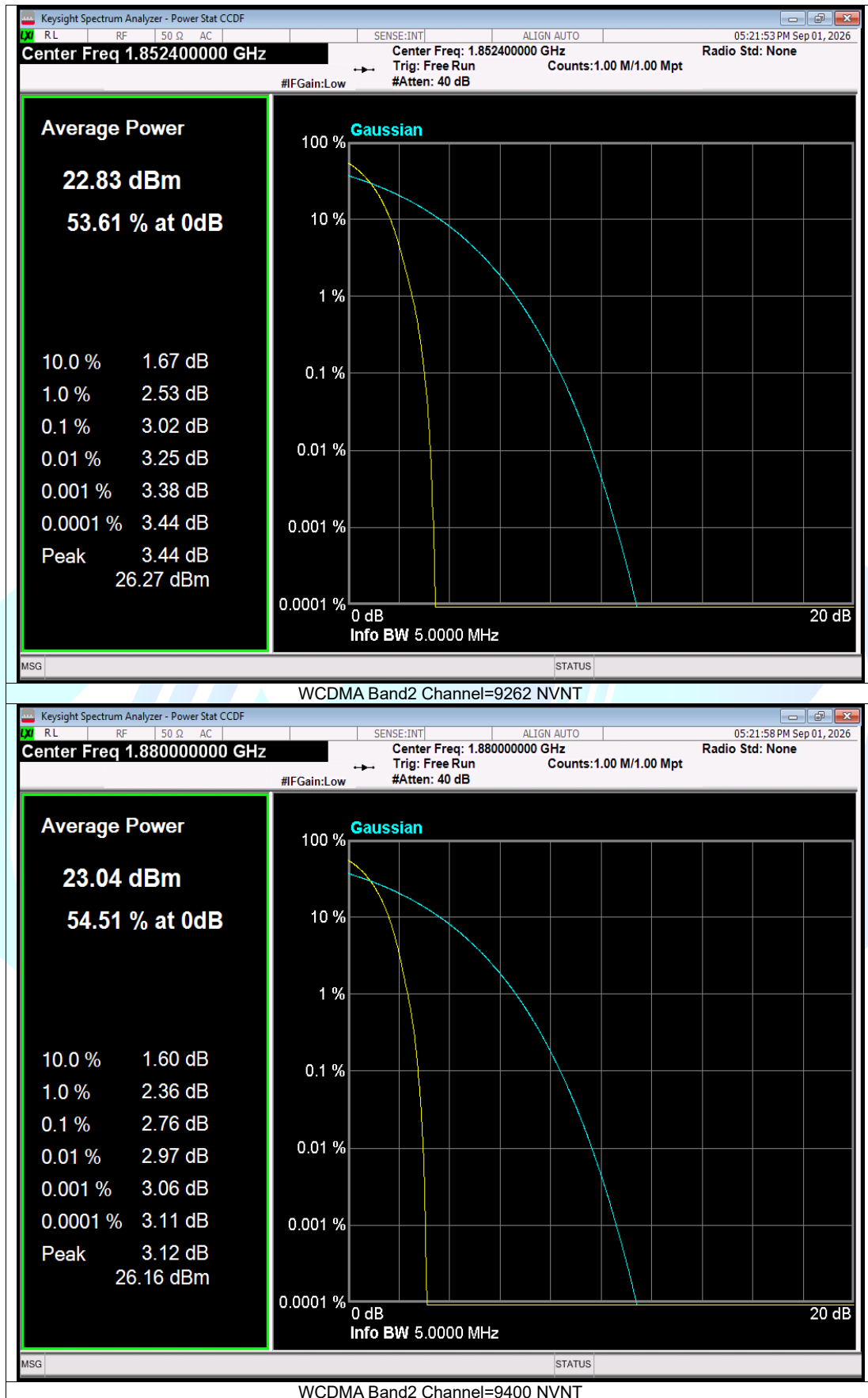
2.1. Test Data

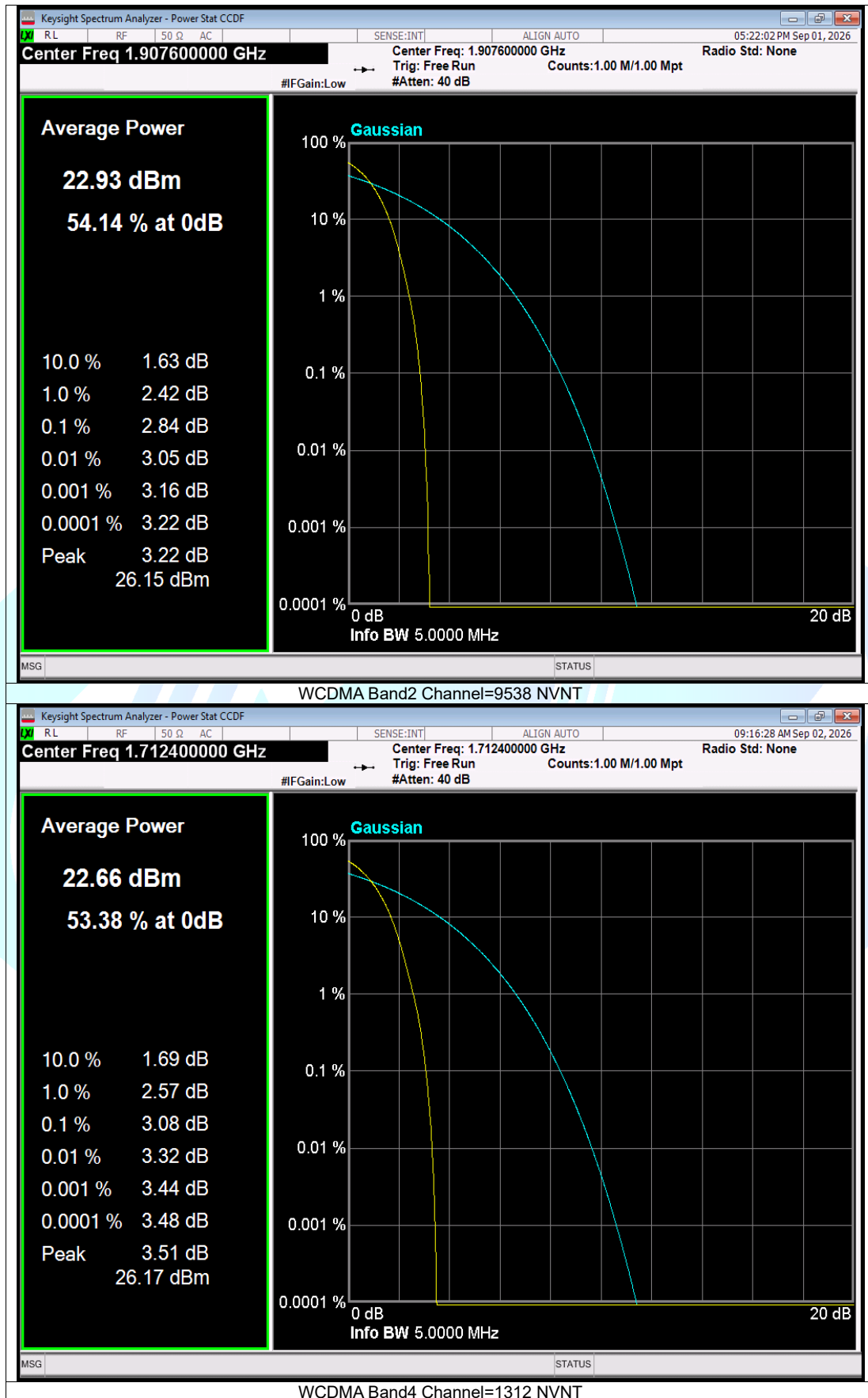
Band	Channel	Frequency (MHz)	Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	ERP Limit (mW)	Verdict
WCDMA Band5	4132	826.4	22.30	-2.42	17.73	59.29	7000	PASS
	4182	836.4	22.30	-2.42	17.73	59.29	7000	PASS
	4233	846.6	22.42	-2.42	17.85	60.95	7000	PASS
HSDPA Band5 Subtest1	4132	826.4	21.71	-2.42	17.14	51.76	7000	PASS
	4182	836.4	21.64	-2.42	17.07	50.93	7000	PASS
	4233	846.6	21.44	-2.42	16.87	48.64	7000	PASS
HSDPA Band5 Subtest2	4132	826.4	20.16	-2.42	15.59	36.22	7000	PASS
	4182	836.4	20.17	-2.42	15.60	36.31	7000	PASS
	4233	846.6	19.82	-2.42	15.25	33.50	7000	PASS
HSDPA Band5 Subtest3	4132	826.4	18.93	-2.42	14.36	27.29	7000	PASS
	4182	836.4	18.09	-2.42	13.52	22.49	7000	PASS
	4233	846.6	18.35	-2.42	13.78	23.88	7000	PASS
HSDPA Band5 Subtest4	4132	826.4	19.03	-2.42	14.46	27.93	7000	PASS
	4182	836.4	18.44	-2.42	13.87	24.38	7000	PASS
	4233	846.6	17.65	-2.42	13.08	20.32	7000	PASS
HSUPA Band5 Subtest1	4132	826.4	19.83	-2.42	15.26	33.57	7000	PASS
	4182	836.4	19.72	-2.42	15.15	32.73	7000	PASS
	4233	846.6	19.67	-2.42	15.10	32.36	7000	PASS
HSUPA Band5 Subtest2	4132	826.4	19.88	-2.42	15.31	33.96	7000	PASS
	4182	836.4	19.78	-2.42	15.21	33.19	7000	PASS
	4233	846.6	19.73	-2.42	15.16	32.81	7000	PASS
HSUPA Band5 Subtest3	4132	826.4	19.54	-2.42	14.97	31.41	7000	PASS
	4182	836.4	19.82	-2.42	15.25	33.50	7000	PASS
	4233	846.6	19.93	-2.42	15.36	34.36	7000	PASS
HSUPA Band5 Subtest4	4132	826.4	19.92	-2.42	15.35	34.28	7000	PASS
	4182	836.4	19.83	-2.42	15.26	33.57	7000	PASS
	4233	846.6	19.78	-2.42	15.21	33.19	7000	PASS
HSUPA Band5 Subtest5	4132	826.4	21.47	-2.42	16.90	48.98	7000	PASS
	4182	836.4	21.51	-2.42	16.94	49.43	7000	PASS
	4233	846.6	21.31	-2.42	16.74	47.21	7000	PASS

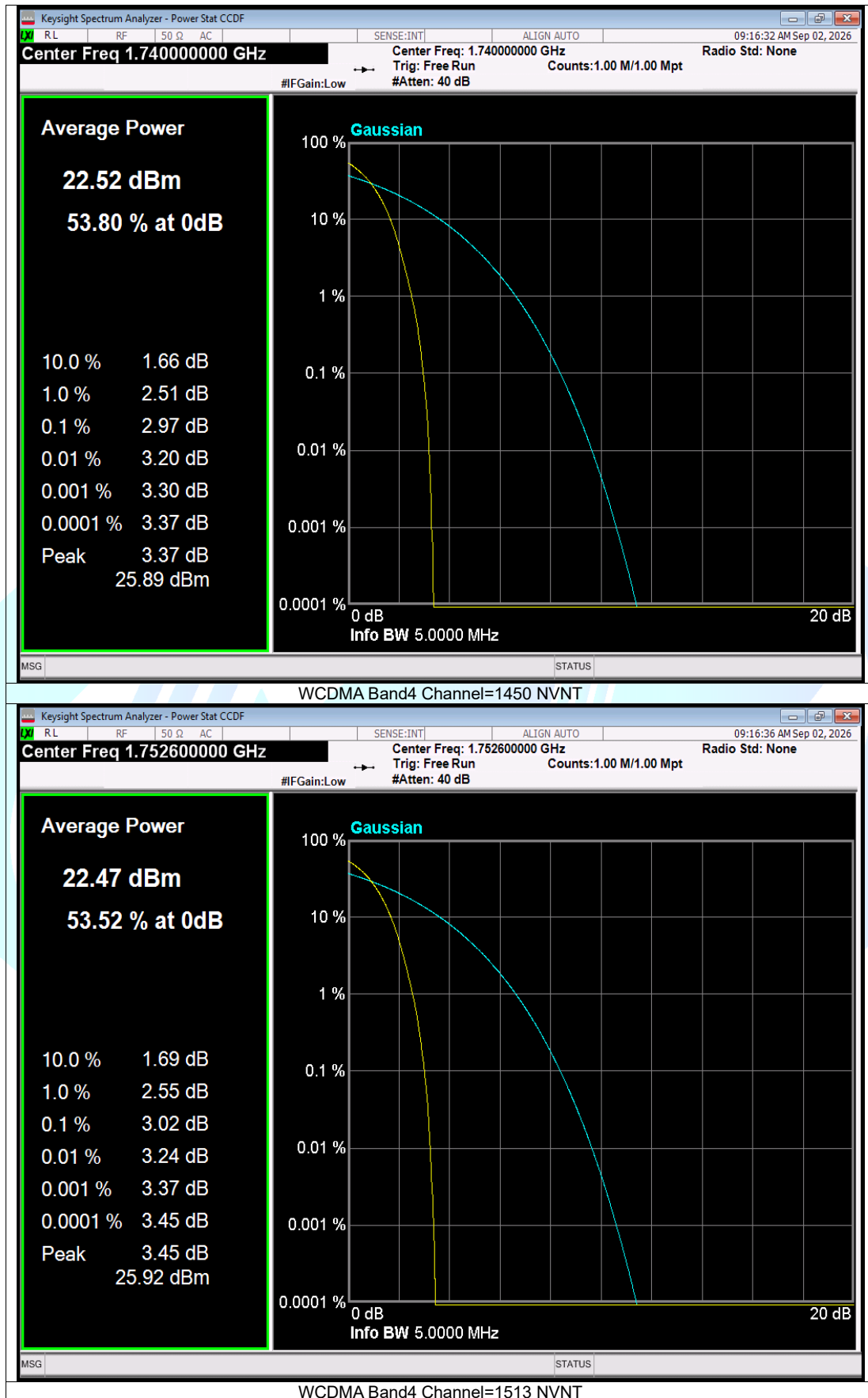
3. Peak-to-Average Ratio

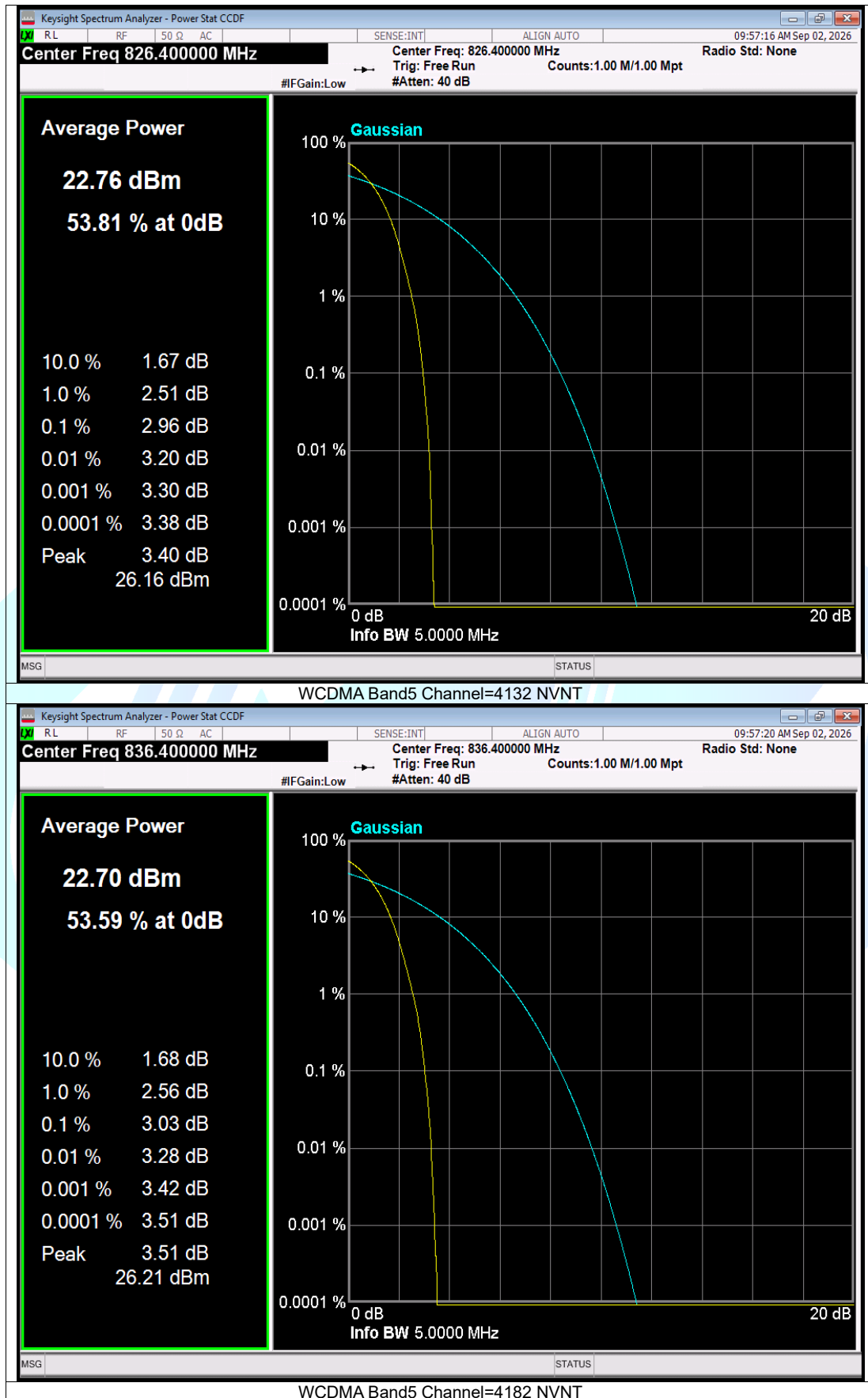
3.1. Test Data

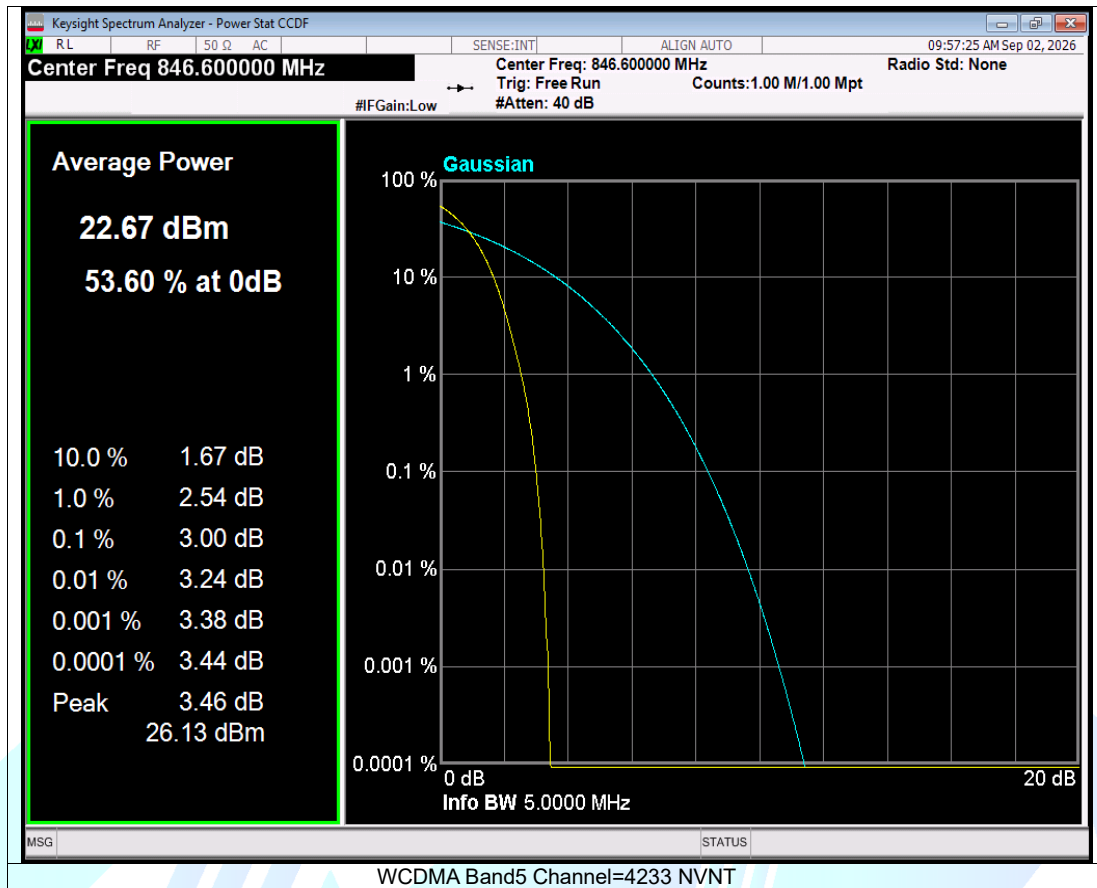
<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Result (dB)</i>	<i>high Limit (dB)</i>	<i>Verdict</i>
WCDMA Band2	9262	1852.4	3.02	13	PASS
	9400	1880.0	2.76	13	PASS
	9538	1907.6	2.84	13	PASS
WCDMA Band4	1312	1712.4	3.08	13	PASS
	1450	1740.0	2.97	13	PASS
	1513	1752.6	3.02	13	PASS
WCDMA Band5	4132	826.4	2.96	13	PASS
	4182	836.4	3.03	13	PASS
	4233	846.6	3.00	13	PASS







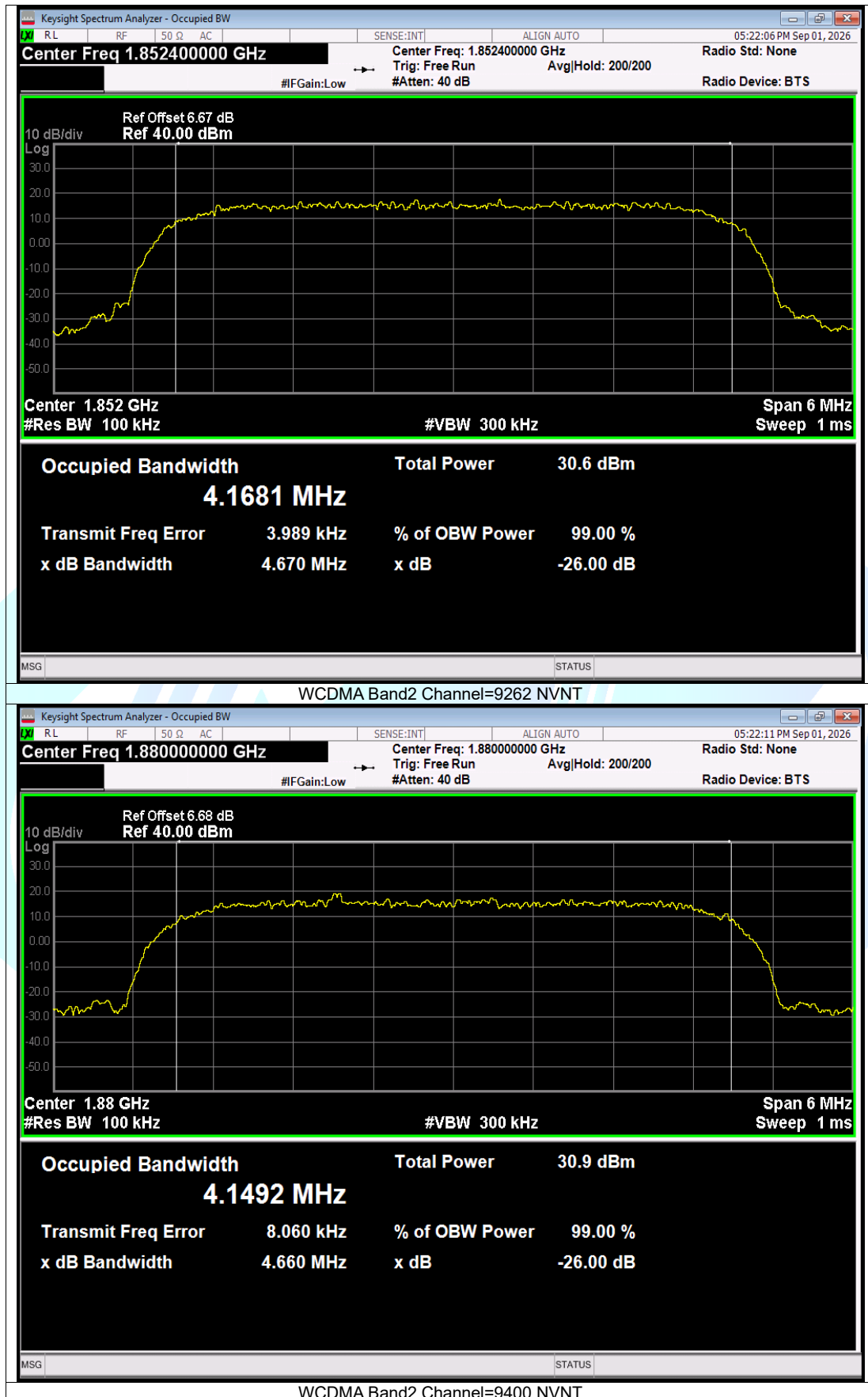


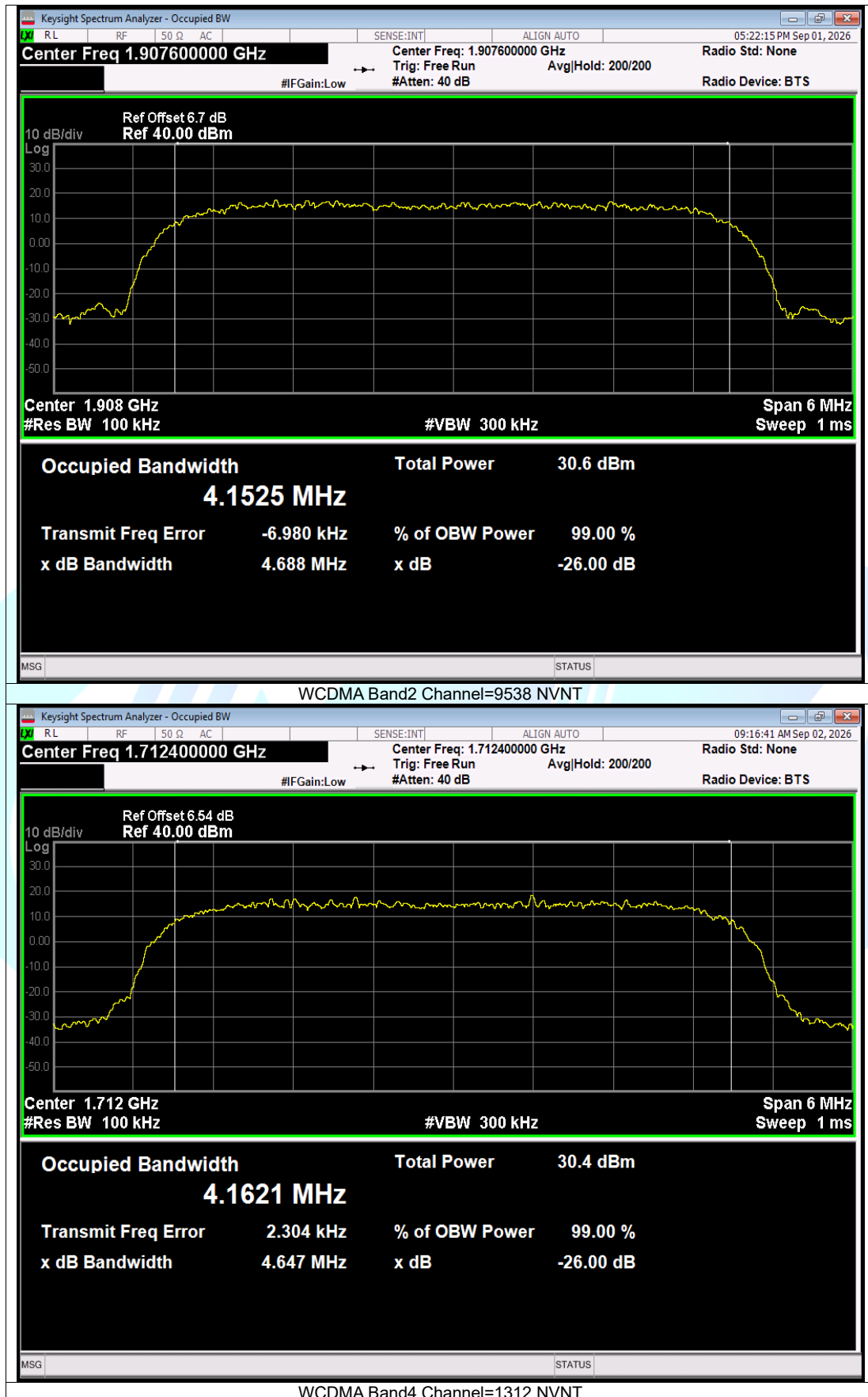


4. Occupied bandwidth

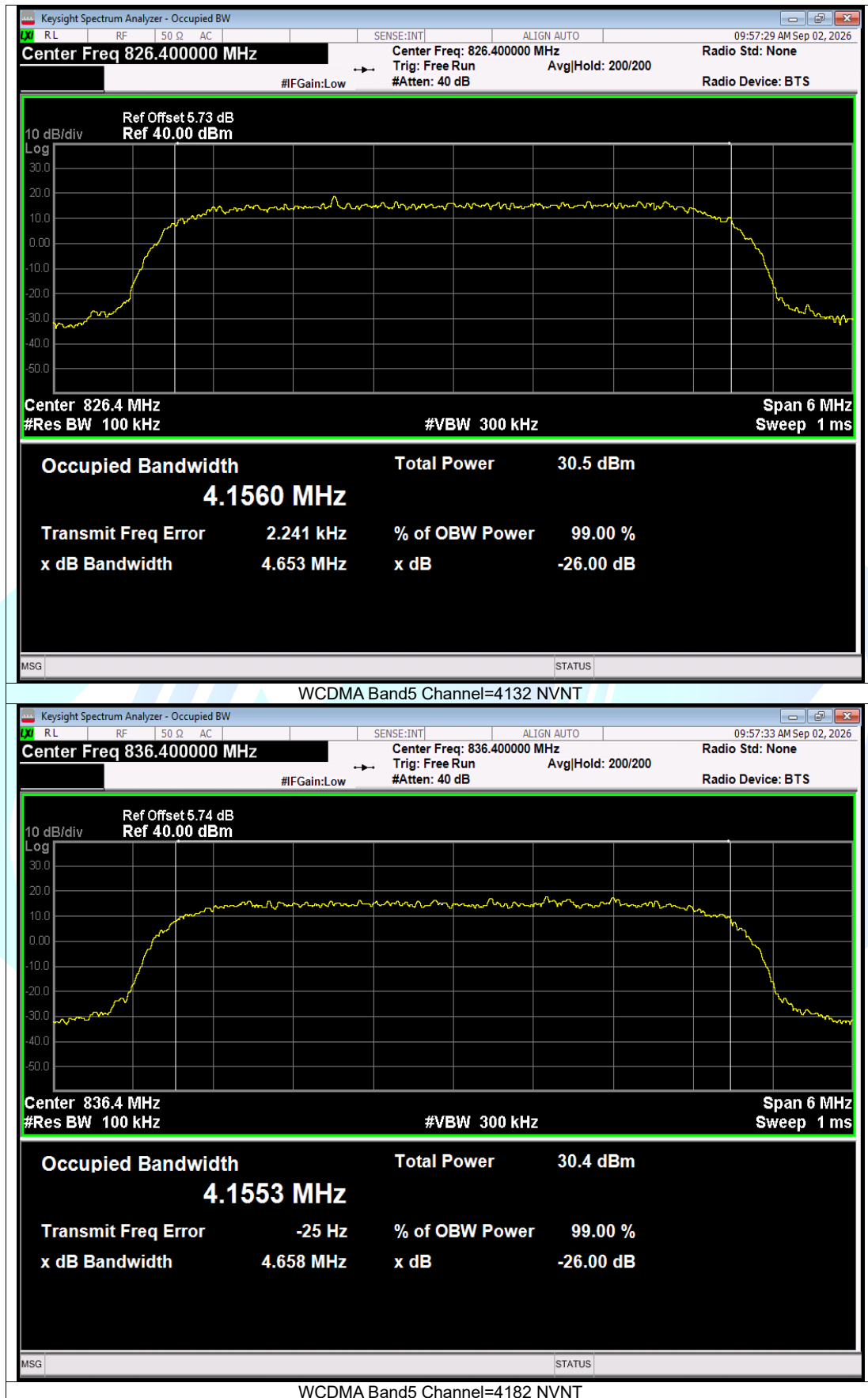
4.1. Test Data

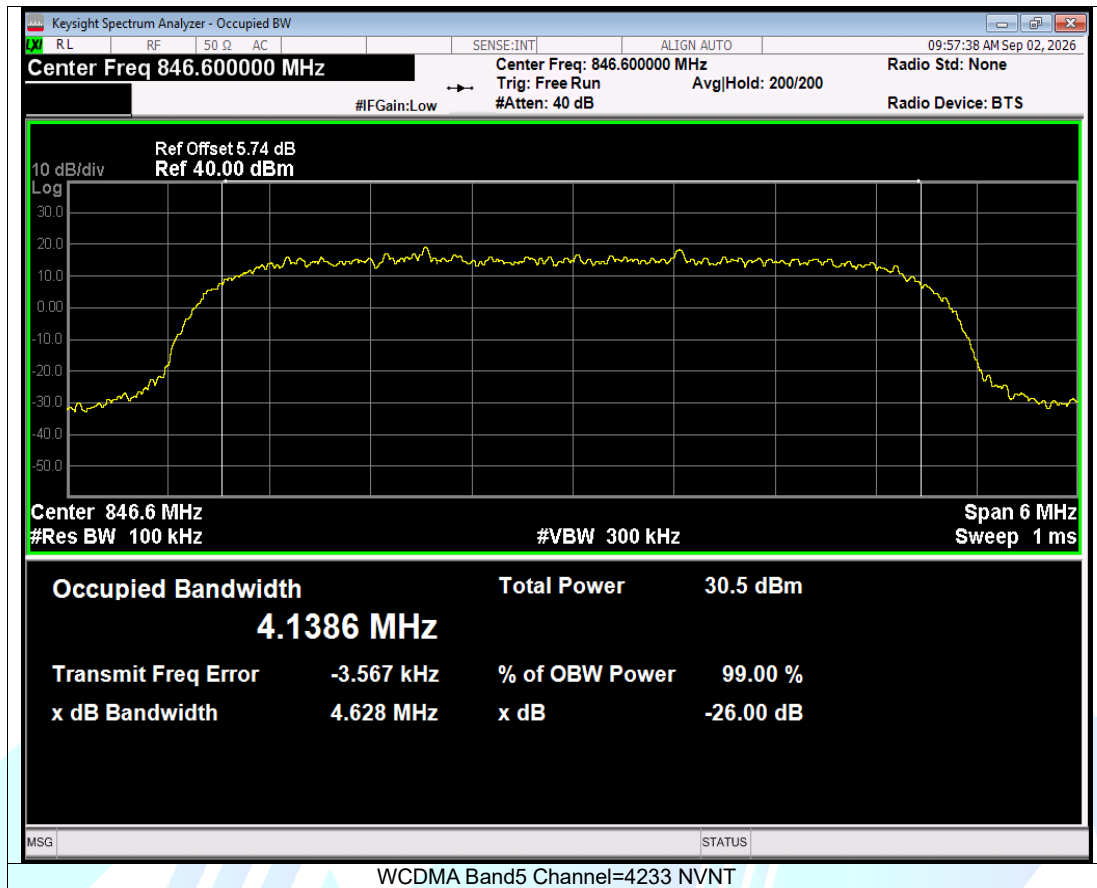
Band	Channel	Frequency (MHz)	99% OBW (kHz)	-26dB EBW (kHz)	Verdict
WCDMA Band2	9262	1852.4	4168.095	4670.432	PASS
	9400	1880.0	4149.234	4660.187	PASS
	9538	1907.6	4152.476	4687.827	PASS
WCDMA Band4	1312	1712.4	4162.106	4646.649	PASS
	1450	1740.0	4161.436	4664.209	PASS
	1513	1752.6	4162.059	4651.097	PASS
WCDMA Band5	4132	826.4	4155.966	4653.347	PASS
	4182	836.4	4155.276	4658.323	PASS
	4233	846.6	4138.648	4628.339	PASS









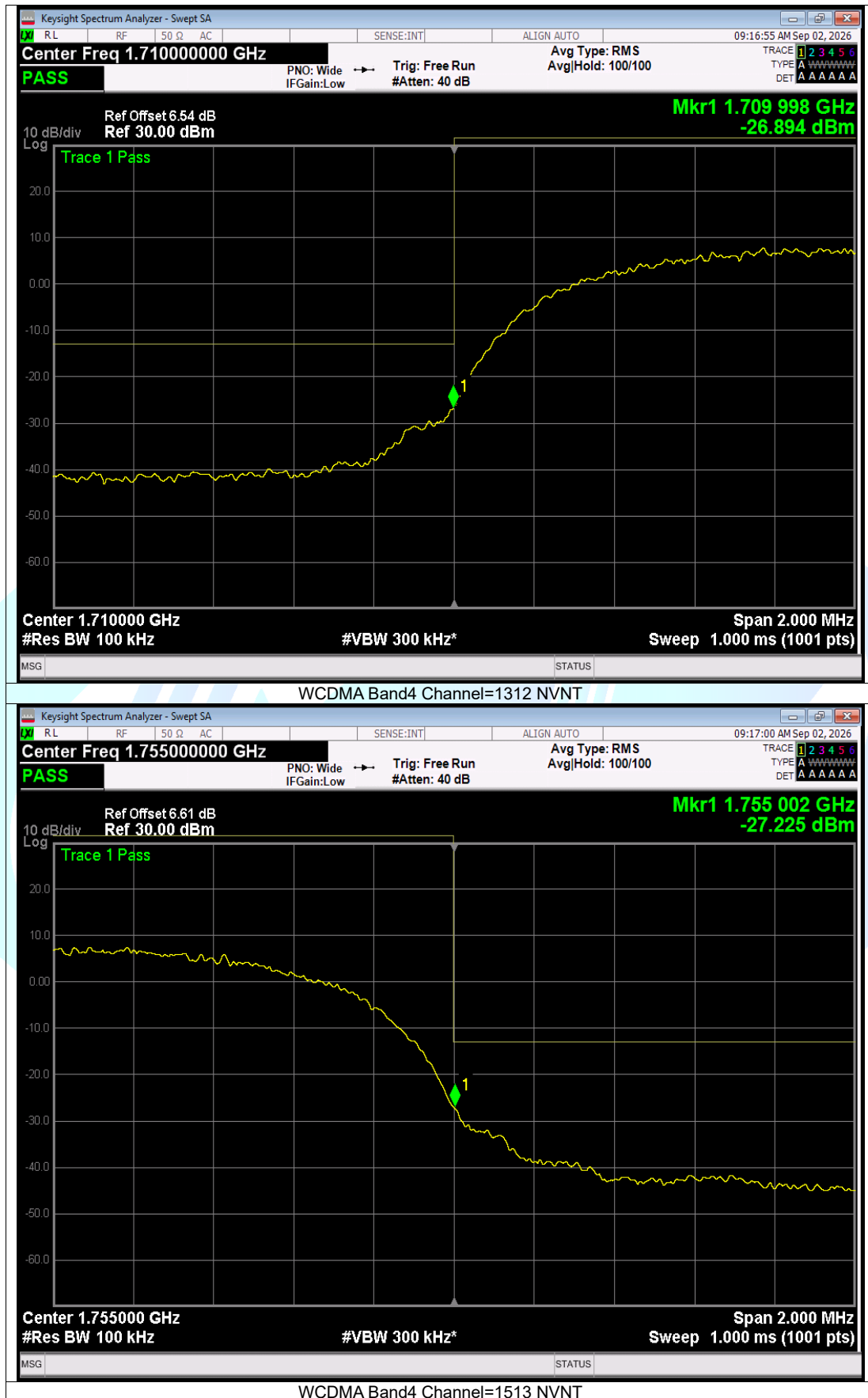


5. Band edge

5.1. Test Data

<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
WCDMA Band2	9262	1852.4	1850.00	-27.39	-13	PASS
	9538	1907.6	1910.00	-25.22	-13	PASS
WCDMA Band4	1312	1712.4	1710.00	-26.89	-13	PASS
	1513	1752.6	1755.00	-27.22	-13	PASS
WCDMA Band5	4132	826.4	824.00	-25.82	-13	PASS
	4233	846.6	849.00	-25.90	-13	PASS



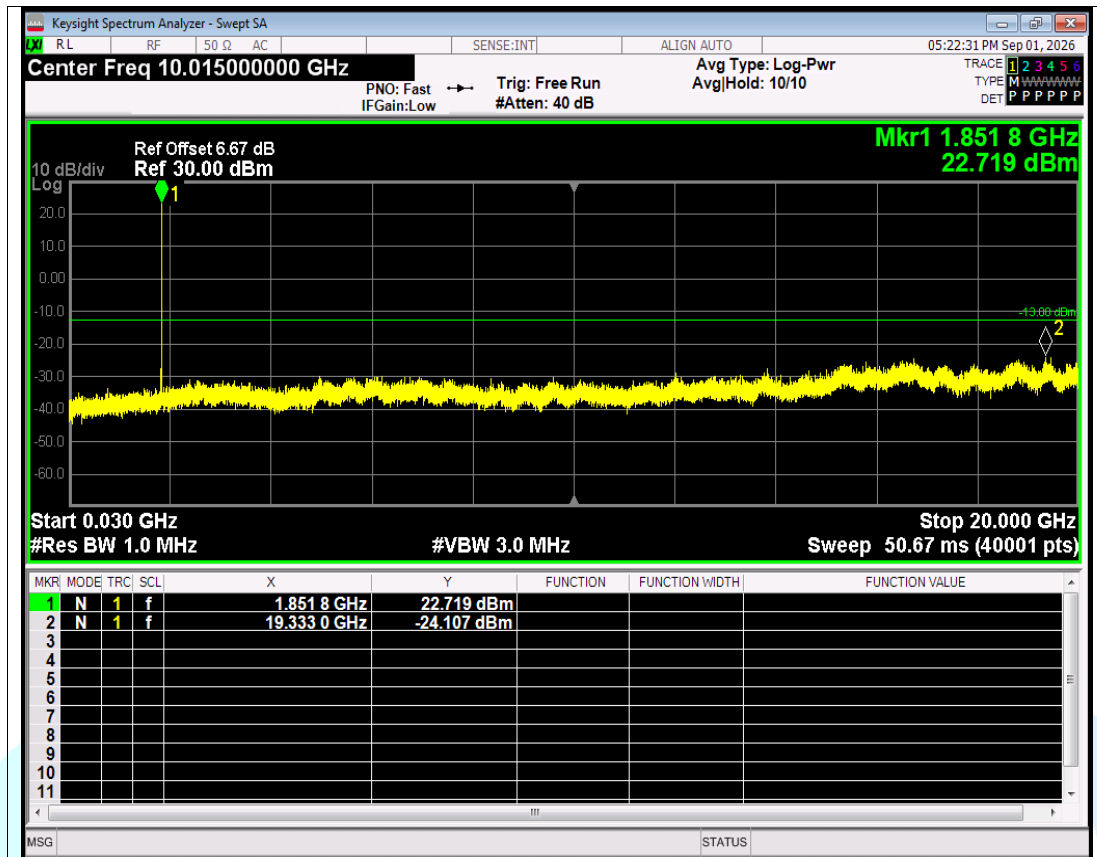




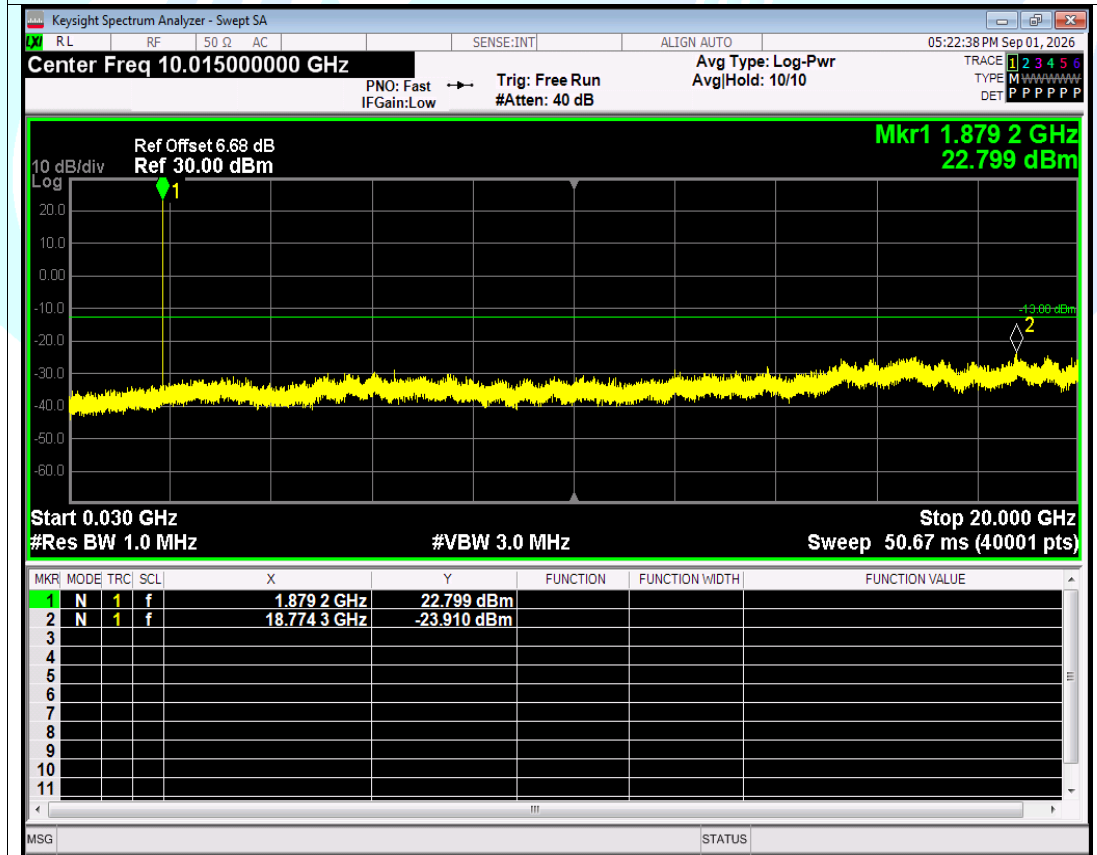
6. Out-of-band emissions

6.1. Test Data

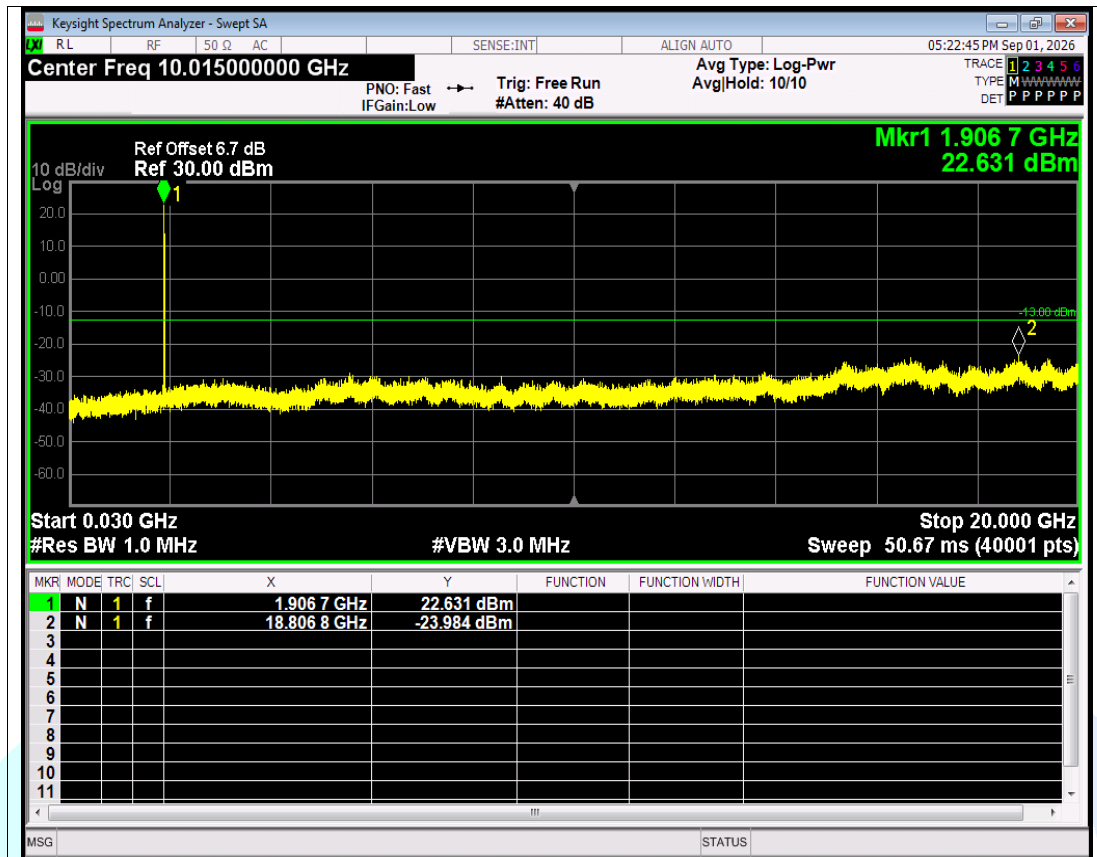
<i>Band</i>	<i>Channel</i>	<i>Frequency (MHz)</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
WCDMA Band2	9262	1852.4	19333.00	-24.10	-13	PASS
	9400	1880.0	18774.34	-23.90	-13	PASS
	9538	1907.6	18806.79	-23.98	-13	PASS
WCDMA Band4	1312	1712.4	16573.65	-25.30	-13	PASS
	1450	1740.0	16528.22	-24.98	-13	PASS
	1513	1752.6	16733.41	-25.31	-13	PASS
WCDMA Band5	4132	826.4	7560.59	-30.53	-13	PASS
	4182	836.4	9606.43	-30.86	-13	PASS
	4233	846.6	6046.90	-30.64	-13	PASS



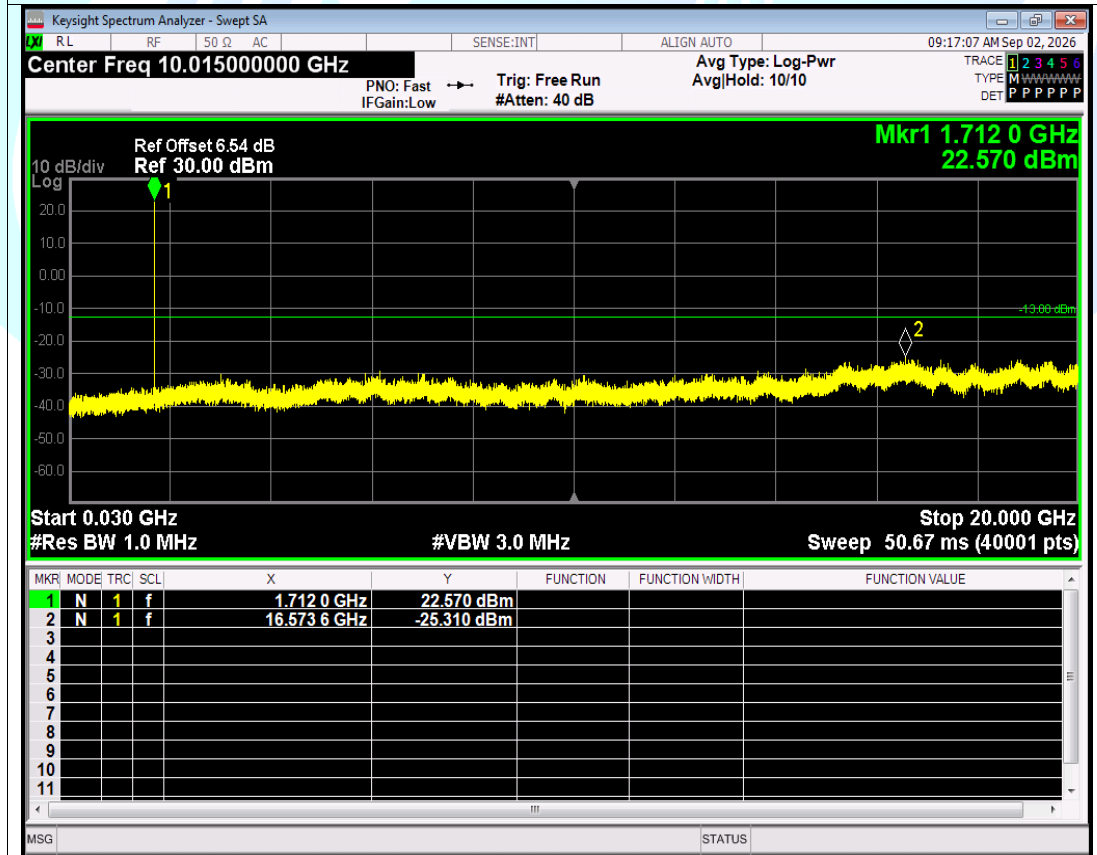
WCDMA Band2 Channel=9262 NVNT



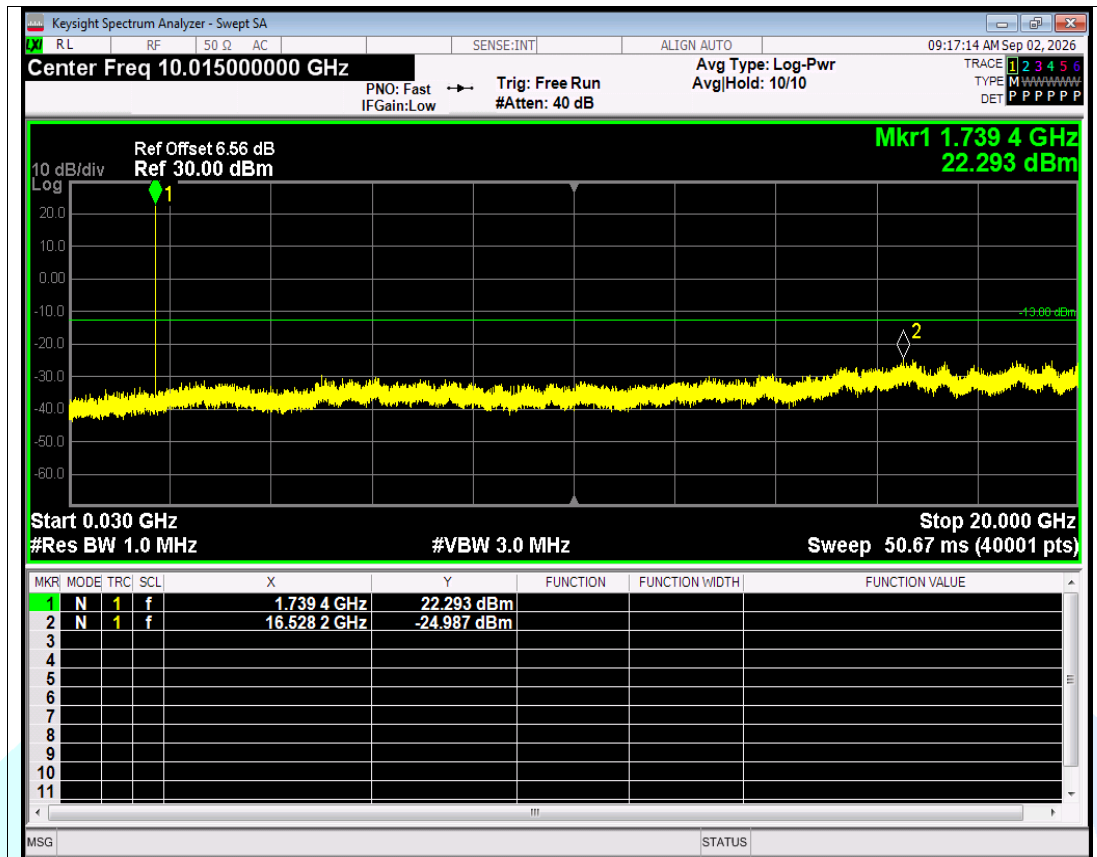
WCDMA Band2 Channel=9400 NVNT



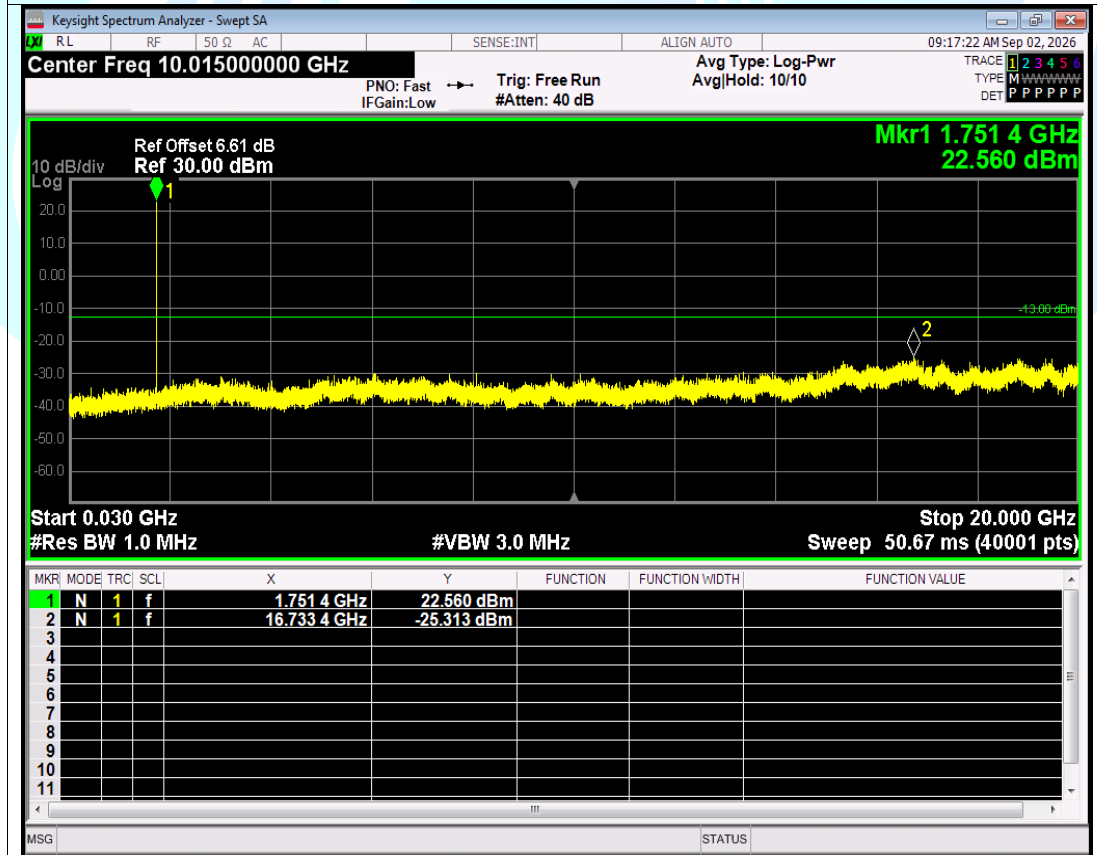
WCDMA Band2 Channel=9538 NVNT



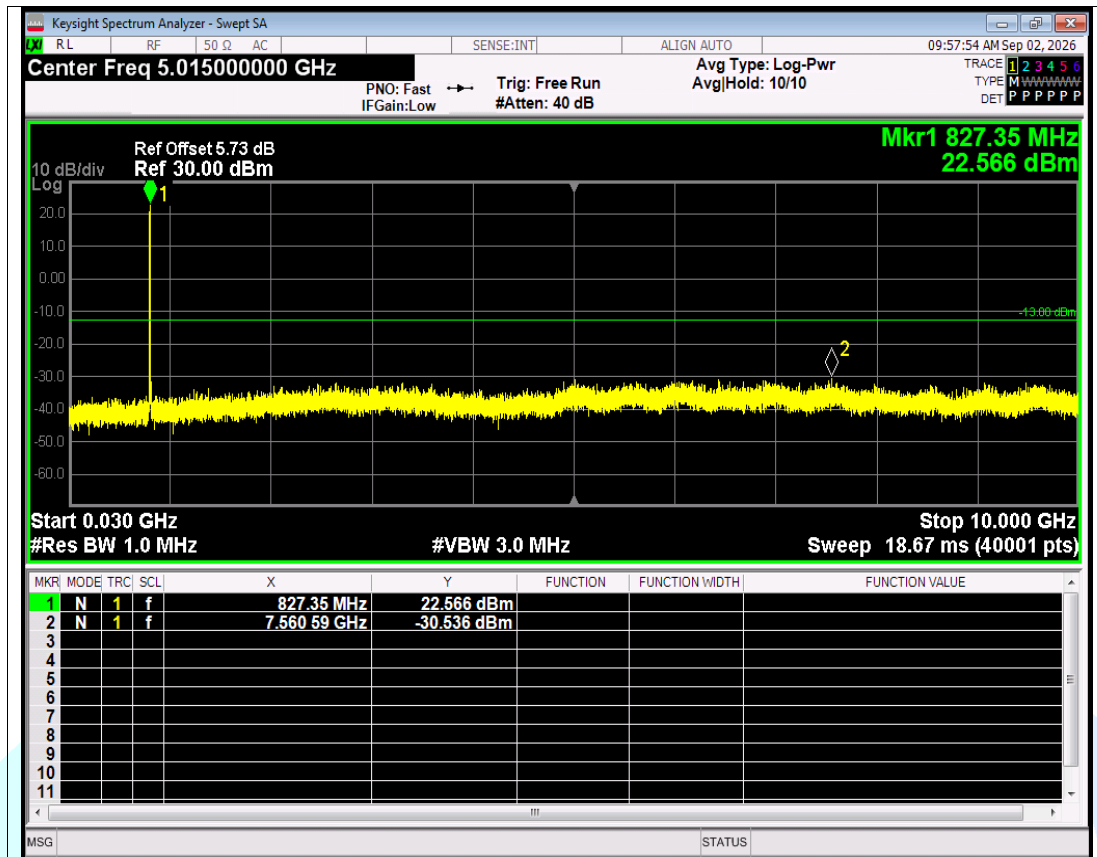
WCDMA Band4 Channel=1312 NVNT



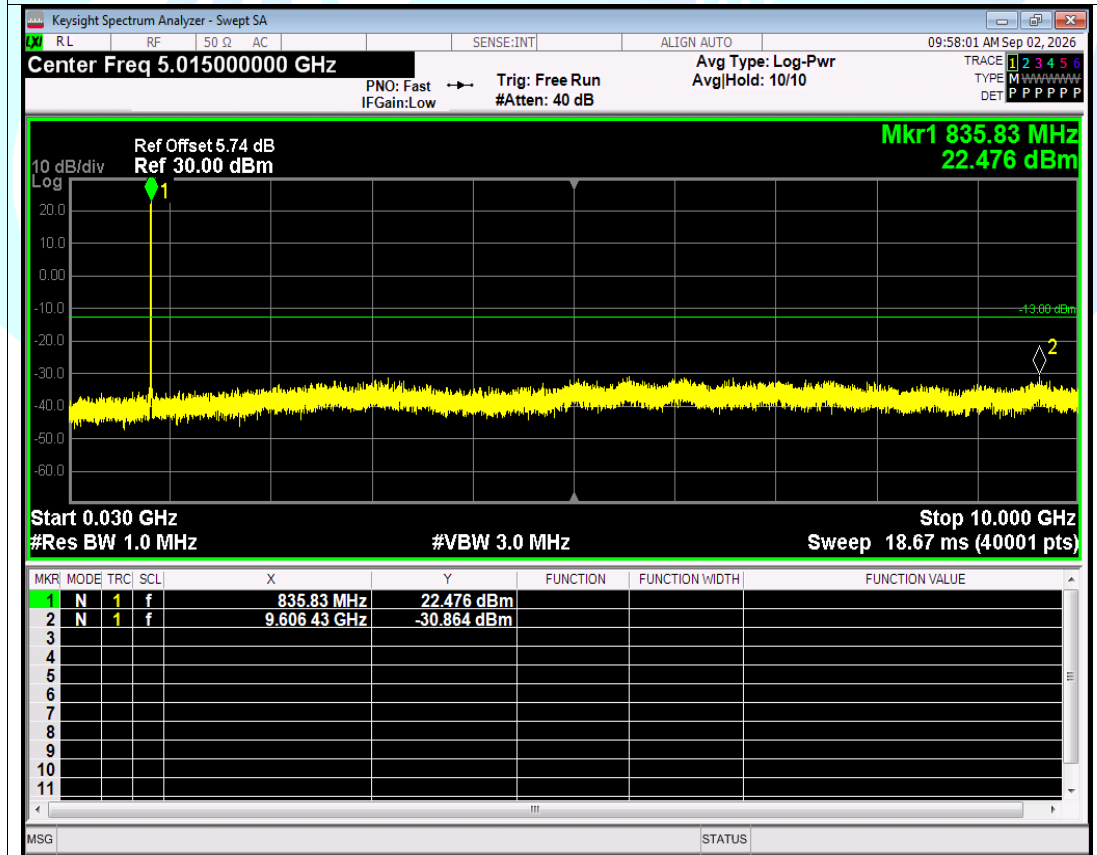
WCDMA Band4 Channel=1450 NVNT



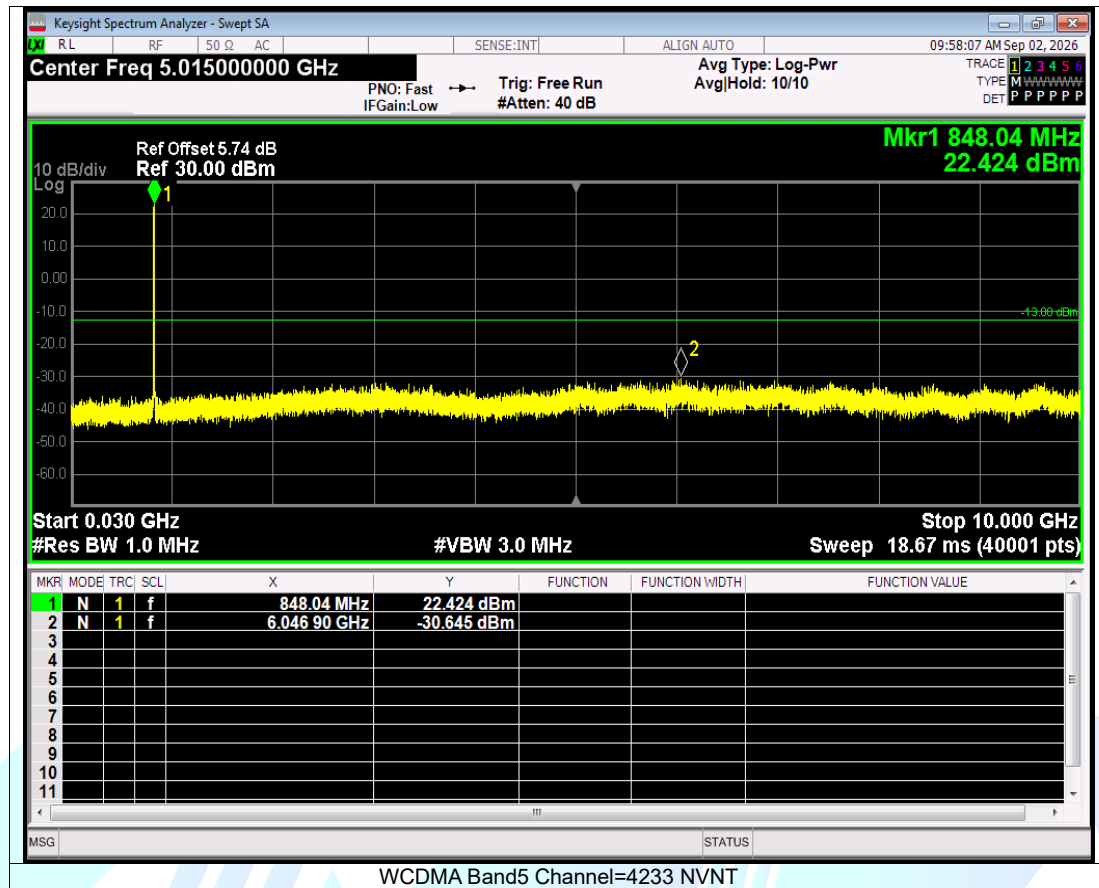
WCDMA Band4 Channel=1513 NVNT



WCDMA Band5 Channel=4132 NVNT



WCDMA Band5 Channel=4182 NVNT



7. Frequency stability

7.1. Test Data

Band	Channel	Frequency (MHz)	P. S. (Vdc)	Temp. (°C)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
WCDMA Band2	9400	1880.0	3.85	-30	3.53	0.002	±2.5	PASS
				-20	-5.09	-0.003	±2.5	PASS
				-10	0.84	0.000	±2.5	PASS
				0	6.21	0.003	±2.5	PASS
				10	1.25	0.001	±2.5	PASS
				20	-1.98	-0.001	±2.5	PASS
				30	-9.52	-0.005	±2.5	PASS
				40	-3.69	-0.002	±2.5	PASS
				50	8.32	0.004	±2.5	PASS
			3.50	25	5.31	0.003	±2.5	PASS
			3.85		-1.25	-0.001	±2.5	PASS
			4.30		-6.45	-0.003	±2.5	PASS
WCDMA Band4	1450	1740.0	3.85	-30	1.97	0.001	±2.5	PASS
				-20	-5.73	-0.003	±2.5	PASS
				-10	5.55	0.003	±2.5	PASS
				0	-5.10	-0.003	±2.5	PASS
				10	3.54	0.002	±2.5	PASS
				20	2.78	0.002	±2.5	PASS
				30	-1.58	-0.001	±2.5	PASS
				40	-0.21	0.000	±2.5	PASS
				50	-5.50	-0.003	±2.5	PASS
			3.50	25	2.85	0.002	±2.5	PASS
			3.85		2.99	0.002	±2.5	PASS
			4.30		-4.16	-0.002	±2.5	PASS
WCDMA Band5	4182	836.4	3.85	-30	-0.56	-0.001	±2.5	PASS
				-20	0.02	0.000	±2.5	PASS
				-10	0.07	0.000	±2.5	PASS
				0	3.41	0.004	±2.5	PASS
				10	2.41	0.003	±2.5	PASS
				20	1.36	0.002	±2.5	PASS
				30	-5.36	-0.006	±2.5	PASS
				40	-3.12	-0.004	±2.5	PASS
				50	-2.58	-0.003	±2.5	PASS
			3.50	25	-1.85	-0.002	±2.5	PASS
			3.85		-3.66	-0.004	±2.5	PASS
			4.30		2.15	0.003	±2.5	PASS

----END----