

Appendix B

Test Information:

Serial No.:	33NK-2	Test Date:	2025/06/25~2025/06/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.6~26.9	Relative Humidity: (%)	60~63	ATM Pressure: (kPa)	100.9
----------------------	-----------	---------------------------	-------	------------------------	-------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
All-sun	Multimeter	EM305A	8348897	2024/08/16	2025/08/15
R&S	Spectrum Analyzer	FSV40	101947	2024/09/05	2025/09/04
R&S	Wideband Radio Communication Tester	CMW500	144976	2024/09/05	2025/09/04
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2024/09/06	2025/09/05
Minl-Circuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2025/02/25	2026/02/24
Micro-Coax	Coaxial Cable	UFB205A	323308-012	2025/06/01	2026/05/31
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM502	2025/06/07	2026/06/06
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Frequency stability vs. temperature &Frequency stability vs. voltage Compliance

FCC Part 22H

WCDMA Band 5

Mode	Test Channel (MHz)	Frequency Error		Limit (ppm)	Verdict
		(Hz)	(ppm)		
R99_Middle_TN/VN	836.6	-11.9	-0.0142	±2.5	Pass
R99_Middle_T1/VN	836.6	-11.6	-0.0139	±2.5	Pass
R99_Middle_T2/VN	836.6	-11.8	-0.0141	±2.5	Pass
R99_Middle_T3/VN	836.6	-6.7	-0.0080	±2.5	Pass
R99_Middle_T4/VN	836.6	-7.5	-0.0089	±2.5	Pass
R99_Middle_T5/VN	836.6	-12.6	-0.0150	±2.5	Pass
R99_Middle_T6/VN	836.6	-13.2	-0.0157	±2.5	Pass
R99_Middle_T7/VN	836.6	-12.0	-0.0143	±2.5	Pass
R99_Middle_T8/VN	836.6	-8.7	-0.0104	±2.5	Pass
R99_Middle_TN/VH	836.6	-8.0	-0.0096	±2.5	Pass
R99_Middle_TN/VL	836.6	-6.4	-0.0076	±2.5	Pass

Note:

Frequency Error (ppm)=Frequency Error (MHz)/Test Channel(MHz)*10⁶

TN: 20°C; T1: -30°C; T2: -20°C; T3: -10°C; T4: 0°C; T5: 10°C; T6: 30°C; T7: 40°C; T8: 50°C.

VN: Normal Voltage; VL: Low Voltage; VH: High Voltage.

FCC Part 24E

WCDMA Band 2

Mode	Result (MHz)	Limit (MHz)	Verdict
R99_Low_TN/VN	1850.305	1850	Pass
R99_Low_T1/VN	1850.315	1850	Pass
R99_Low_T2/VN	1850.295	1850	Pass
R99_Low_T3/VN	1850.305	1850	Pass
R99_Low_T4/VN	1850.305	1850	Pass
R99_Low_T5/VN	1850.315	1850	Pass
R99_Low_T6/VN	1850.315	1850	Pass
R99_Low_T7/VN	1850.305	1850	Pass
R99_Low_T8/VN	1850.305	1850	Pass
R99_Low_TN/VH	1850.315	1850	Pass
R99_Low_TN/VL	1850.305	1850	Pass
R99_High_TN/VN	1909.665	1910	Pass
R99_High_T1/VN	1909.675	1910	Pass
R99_High_T2/VN	1909.675	1910	Pass
R99_High_T3/VN	1909.665	1910	Pass
R99_High_T4/VN	1909.685	1910	Pass
R99_High_T5/VN	1909.695	1910	Pass
R99_High_T6/VN	1909.685	1910	Pass
R99_High_T7/VN	1909.685	1910	Pass
R99_High_T8/VN	1909.675	1910	Pass
R99_High_TN/VH	1909.675	1910	Pass
R99_High_TN/VL	1909.685	1910	Pass

Note:
TN: 20°C; **T1:** -30°C; **T2:** -20°C; **T3:** -10°C; **T4:** 0°C; **T5:** 10°C; **T6:** 30°C; **T7:** 40°C; **T8:** 50°C.
VN: Normal Voltage; **VL:** Low Voltage; **VH:** High Voltage.

Occupied Bandwidth

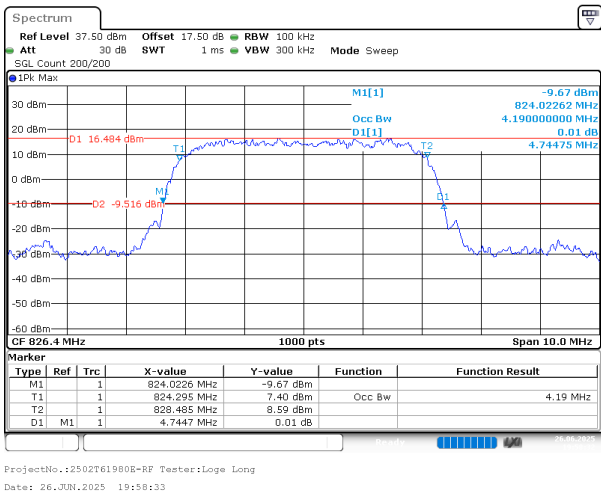
FCC Part 22H

WCDMA Band 5, Normal

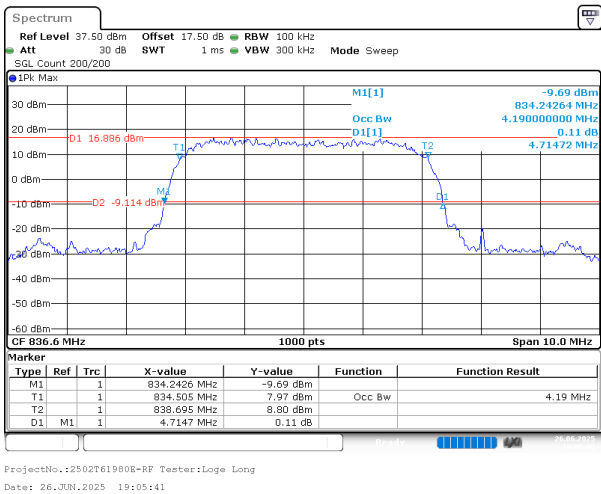
Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.190	4.745
R99_Middle	4.190	4.715
R99_High	4.170	4.715
HSDPA_Low_Subtest1	4.180	4.745
HSDPA_Middle_Subtest1	4.180	4.735
HSDPA_High_Subtest1	4.190	4.715
HSUPA_Low_Subtest1	4.190	4.735
HSUPA_Middle_Subtest1	4.200	4.725
HSUPA_High_Subtest1	4.170	4.715

WCDMA Band 5, Normal

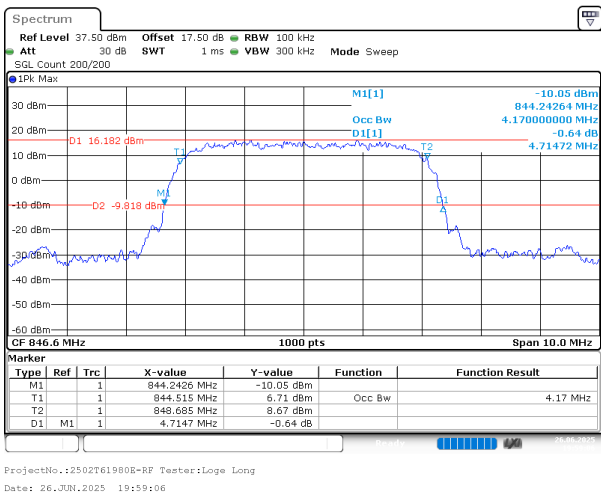
R99_Low



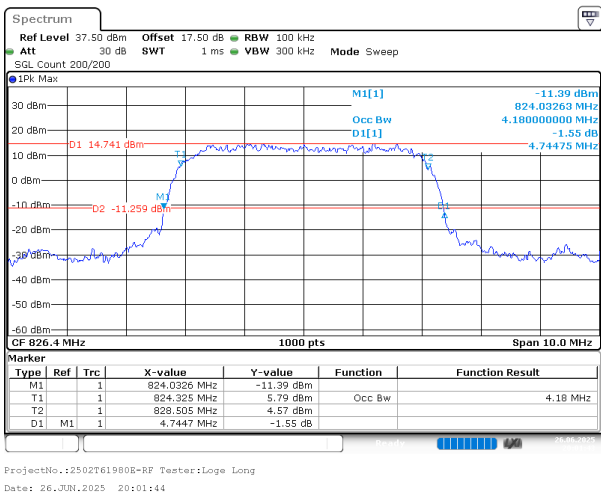
R99_Middle



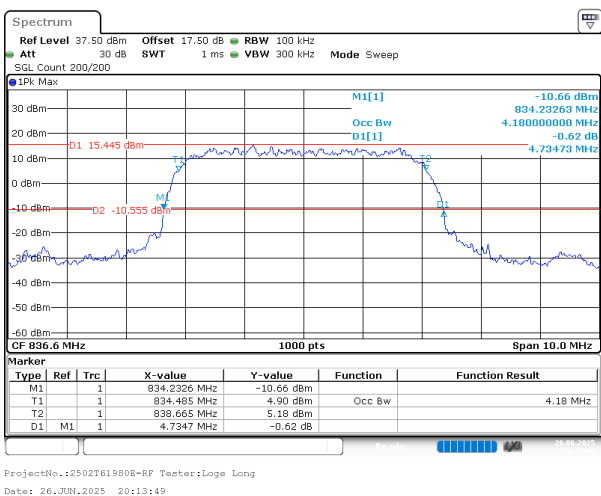
R99_High



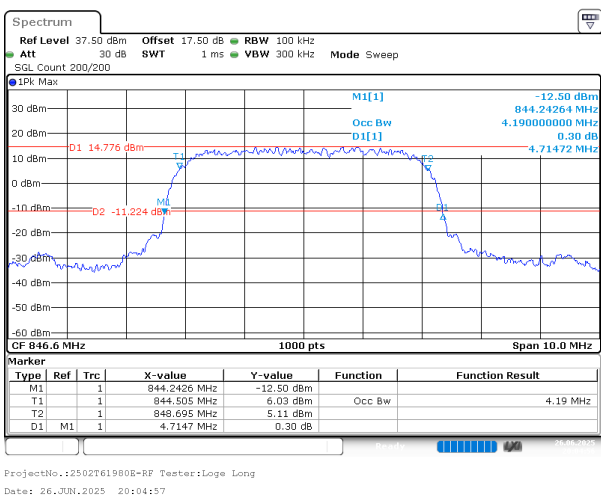
HSDPA_Low_Subtest1



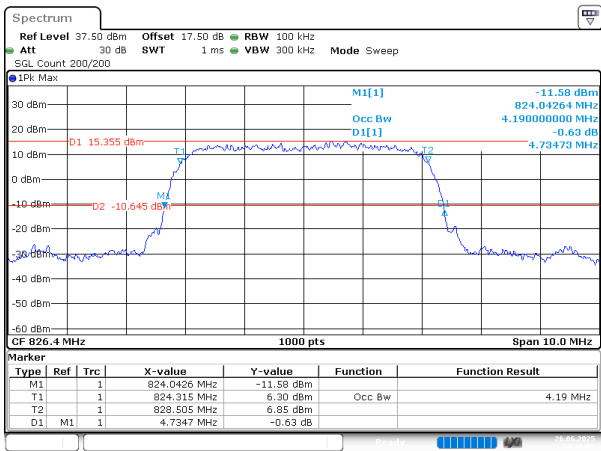
HSDPA_Middle_Subtest1



HSDPA_High_Subtest1

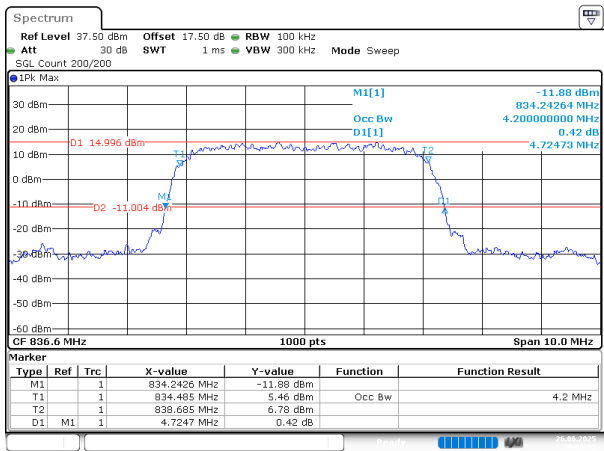


HSUPA_Low_Subtest1



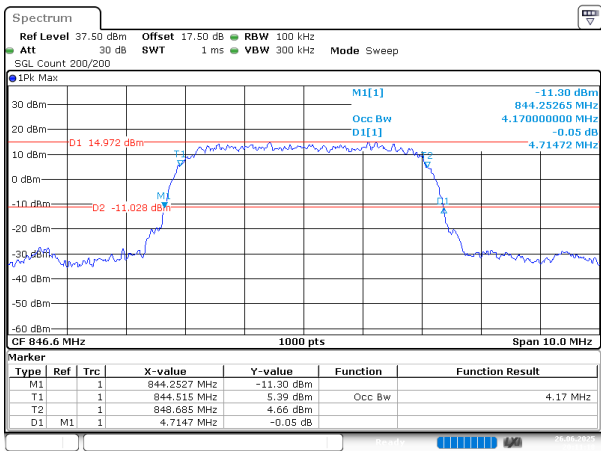
ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 20:16:59

HSUPA_Middle_Subtest1



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 20:09:34

HSUPA_High_Subtest1



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 20:11:19

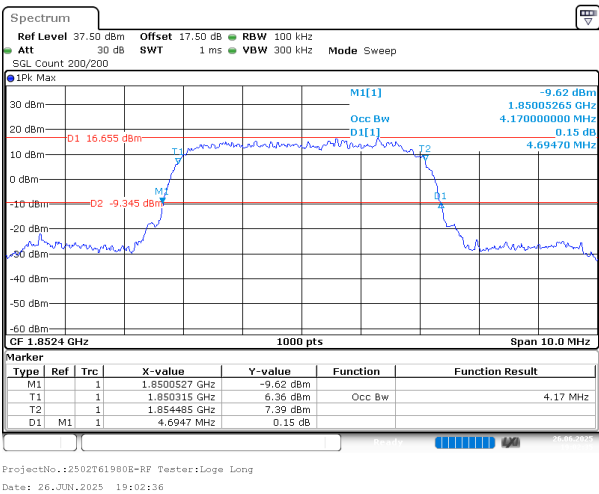
FCC Part 24E

WCDMA Band 2, Normal

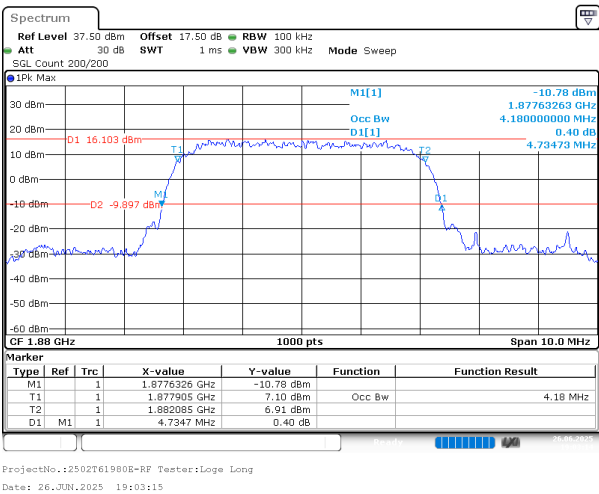
Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.170	4.695
R99_Middle	4.180	4.735
R99_High	4.170	4.715
HSDPA_Low_Subtest1	4.170	4.725
HSDPA_Middle_Subtest1	4.180	4.705
HSDPA_High_Subtest1	4.190	4.745
HSUPA_Low_Subtest1	4.190	4.715
HSUPA_Middle_Subtest1	4.180	4.705
HSUPA_High_Subtest1	4.170	4.735

WCDMA Band 2, Normal

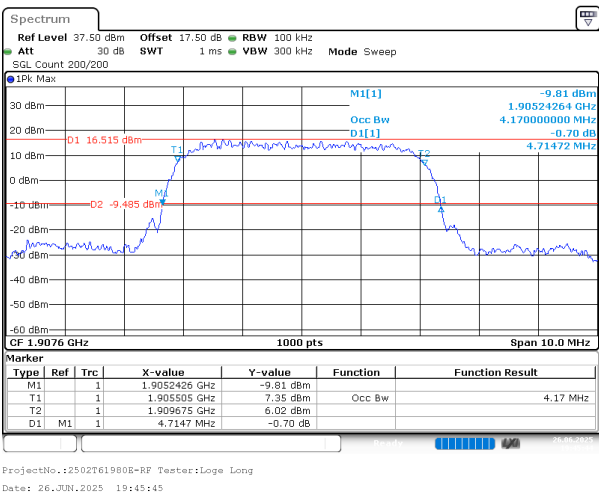
R99_Low



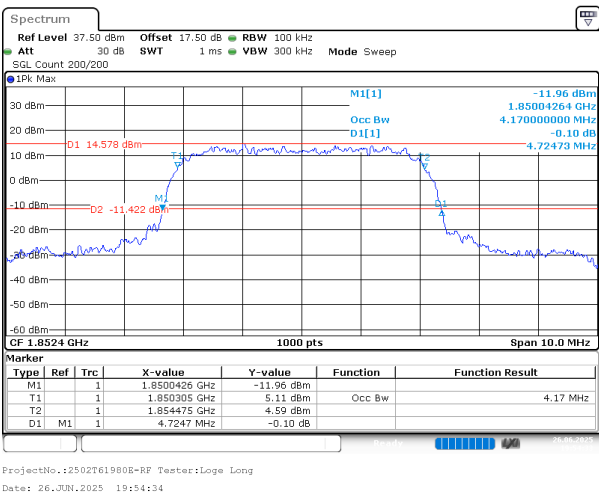
R99_Middle



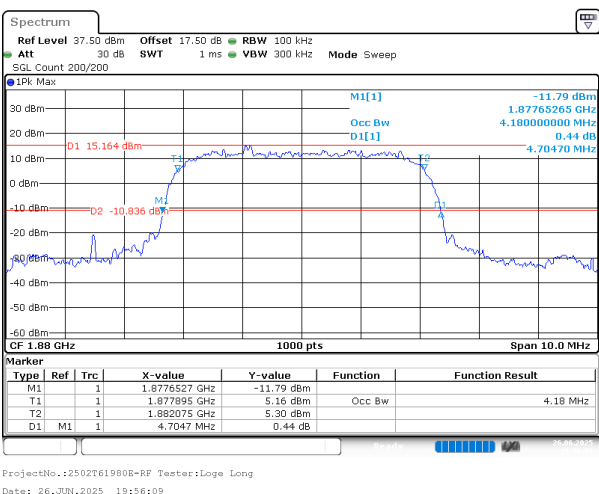
R99_High



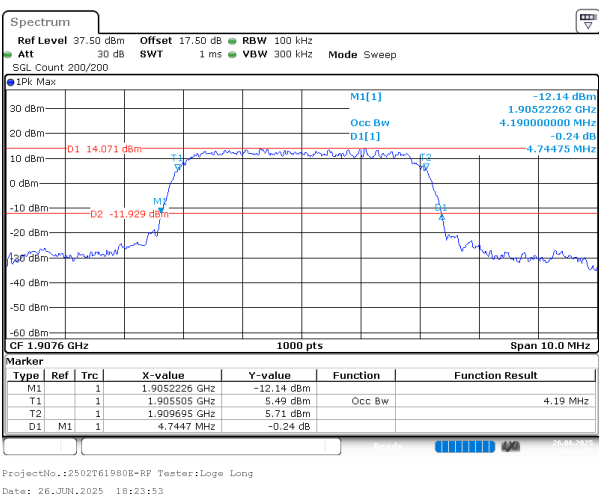
HSDPA_Low_Subtest1



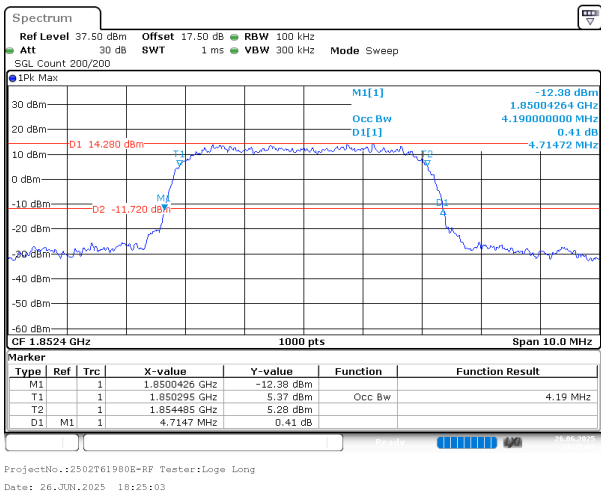
HSDPA_Middle_Subtest1



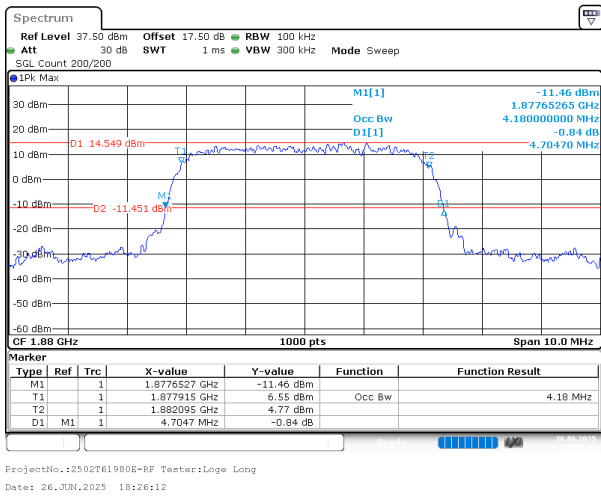
HSDPA_High_Subtest1



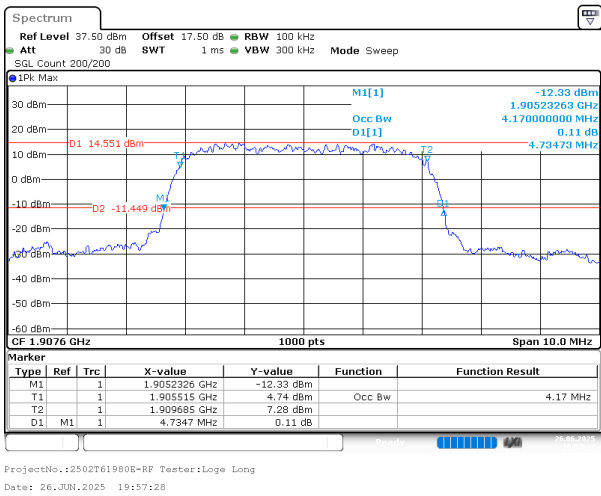
HSUPA_Low_Subtest1



HSUPA_Middle_Subtest1



HSUPA_High_Subtest1



RF Output Power**FCC Part 22H****WCDMA Band 5, Normal**

Mode	Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
R99_Low	22.55	19.81	38.45	Pass
R99_Middle	22.40	19.66	38.45	Pass
R99_High	22.17	19.43	38.45	Pass
HSDPA_Low_Subtest1	20.45	17.71	38.45	Pass
HSDPA_Low_Subtest2	20.71	17.97	38.45	Pass
HSDPA_Low_Subtest3	20.63	17.89	38.45	Pass
HSDPA_Low_Subtest4	20.60	17.86	38.45	Pass
HSDPA_Middle_Subtest1	20.47	17.73	38.45	Pass
HSDPA_Middle_Subtest2	20.53	17.79	38.45	Pass
HSDPA_Middle_Subtest3	20.44	17.70	38.45	Pass
HSDPA_Middle_Subtest4	20.23	17.49	38.45	Pass
HSDPA_High_Subtest1	20.14	17.40	38.45	Pass
HSDPA_High_Subtest2	20.25	17.51	38.45	Pass
HSDPA_High_Subtest3	20.11	17.37	38.45	Pass
HSDPA_High_Subtest4	20.10	17.36	38.45	Pass
HSUPA_Low_Subtest1	20.91	18.17	38.45	Pass
HSUPA_Low_Subtest2	20.89	18.15	38.45	Pass
HSUPA_Low_Subtest3	20.92	18.18	38.45	Pass
HSUPA_Low_Subtest4	20.93	18.19	38.45	Pass
HSUPA_Low_Subtest5	20.88	18.14	38.45	Pass
HSUPA_Middle_Subtest1	20.77	18.03	38.45	Pass
HSUPA_Middle_Subtest2	20.65	17.91	38.45	Pass
HSUPA_Middle_Subtest3	20.70	17.96	38.45	Pass
HSUPA_Middle_Subtest4	20.71	17.97	38.45	Pass
HSUPA_Middle_Subtest5	20.73	17.99	38.45	Pass
HSUPA_High_Subtest1	20.50	17.76	38.45	Pass
HSUPA_High_Subtest2	20.49	17.75	38.45	Pass
HSUPA_High_Subtest3	20.50	17.76	38.45	Pass
HSUPA_High_Subtest4	20.48	17.74	38.45	Pass
HSUPA_High_Subtest5	20.48	17.74	38.45	Pass

Mode	Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	20.74	18.00	38.45	Pass
HSPA+_Middle_Subtest1	20.71	17.97	38.45	Pass
HSPA+_High_Subtest1	20.56	17.82	38.45	Pass

Note:

ERP = Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)

Antenna Gain(dBd) = Antenna Gain(dBi) - 2.15

1.Antenna Gain = -0.59dBi;

2.Cable Loss = 0dB.

FCC Part 24E**WCDMA Band 2, Normal**

Mode	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
R99_Low	22.53	20.21	33	Pass
R99_Middle	22.60	20.28	33	Pass
R99_High	22.72	20.40	33	Pass
HSDPA_Low_Subtest1	20.59	18.27	33	Pass
HSDPA_Low_Subtest2	20.63	18.31	33	Pass
HSDPA_Low_Subtest3	20.60	18.28	33	Pass
HSDPA_Low_Subtest4	20.56	18.24	33	Pass
HSDPA_Middle_Subtest1	20.66	18.34	33	Pass
HSDPA_Middle_Subtest2	20.73	18.41	33	Pass
HSDPA_Middle_Subtest3	20.50	18.18	33	Pass
HSDPA_Middle_Subtest4	20.60	18.28	33	Pass
HSDPA_High_Subtest1	20.75	18.43	33	Pass
HSDPA_High_Subtest2	20.74	18.42	33	Pass
HSDPA_High_Subtest3	20.69	18.37	33	Pass
HSDPA_High_Subtest4	20.68	18.36	33	Pass
HSUPA_Low_Subtest1	21.08	18.76	33	Pass
HSUPA_Low_Subtest2	21.11	18.79	33	Pass
HSUPA_Low_Subtest3	21.11	18.79	33	Pass
HSUPA_Low_Subtest4	21.12	18.80	33	Pass
HSUPA_Low_Subtest5	21.10	18.78	33	Pass
HSUPA_Middle_Subtest1	20.98	18.66	33	Pass
HSUPA_Middle_Subtest2	20.99	18.67	33	Pass
HSUPA_Middle_Subtest3	21.01	18.69	33	Pass
HSUPA_Middle_Subtest4	21.03	18.71	33	Pass
HSUPA_Middle_Subtest5	21.05	18.73	33	Pass
HSUPA_High_Subtest1	21.12	18.80	33	Pass
HSUPA_High_Subtest2	21.12	18.80	33	Pass
HSUPA_High_Subtest3	21.12	18.80	33	Pass
HSUPA_High_Subtest4	21.12	18.80	33	Pass
HSUPA_High_Subtest5	21.13	18.81	33	Pass

Mode	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	20.72	18.40	33	Pass
HSPA+_Middle_Subtest1	20.75	18.43	33	Pass
HSPA+_High_Subtest1	20.73	18.41	33	Pass

Note:

EIRP = Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)

1.Antenna Gain = -2.32dBi;

2.Cable Loss = 0dB.

Peak-to-average Ratio(PAR)

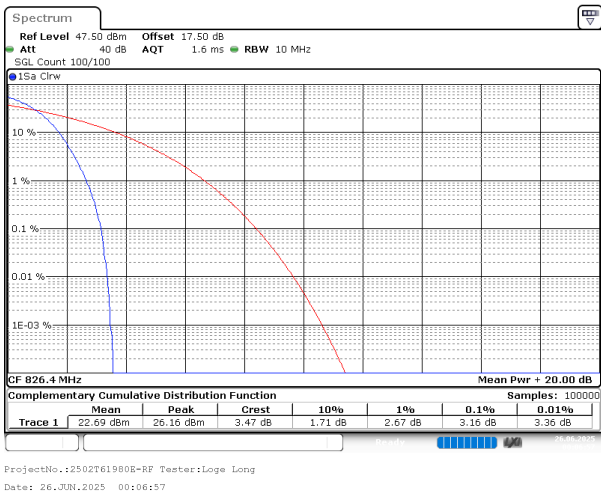
FCC Part 22H

WCDMA Band 5, Normal

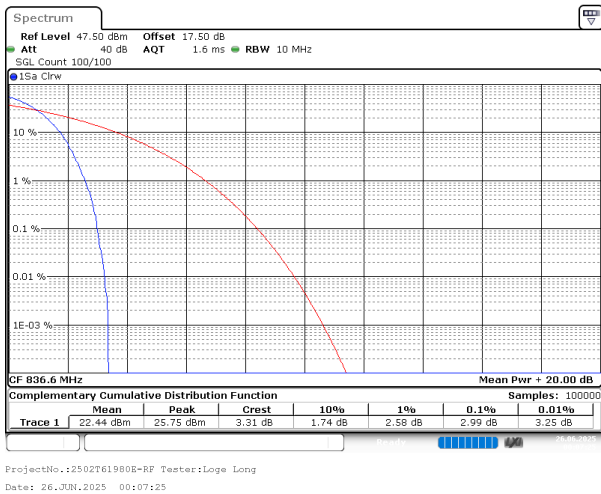
Mode	Result (dB)	Limit (dB)
R99_Low	3.16	13
R99_Middle	2.99	13
R99_High	3.07	13
HSDPA_Low_Subtest1	3.62	13
HSDPA_Middle_Subtest1	3.94	13
HSDPA_High_Subtest1	3.97	13
HSUPA_Low_Subtest1	4.75	13
HSUPA_Middle_Subtest1	4.64	13
HSUPA_High_Subtest1	4.75	13

WCDMA Band 5, Normal

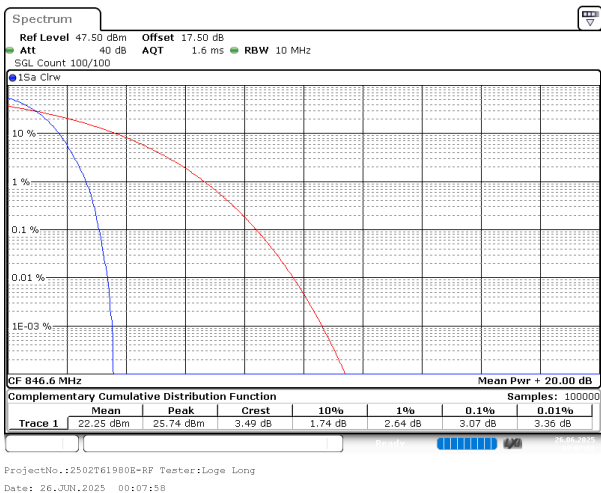
R99_Low



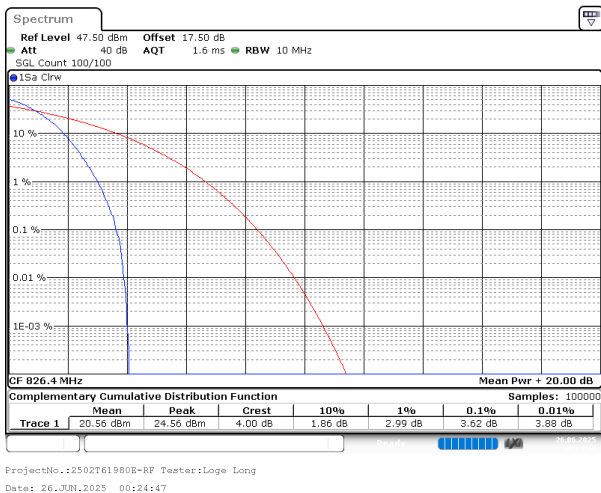
R99_Middle



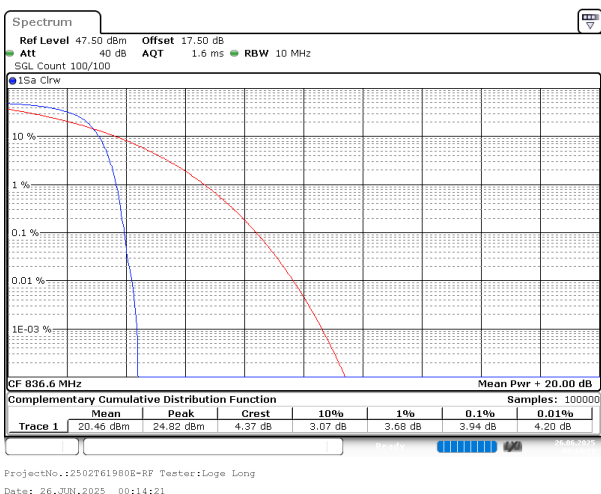
R99_High



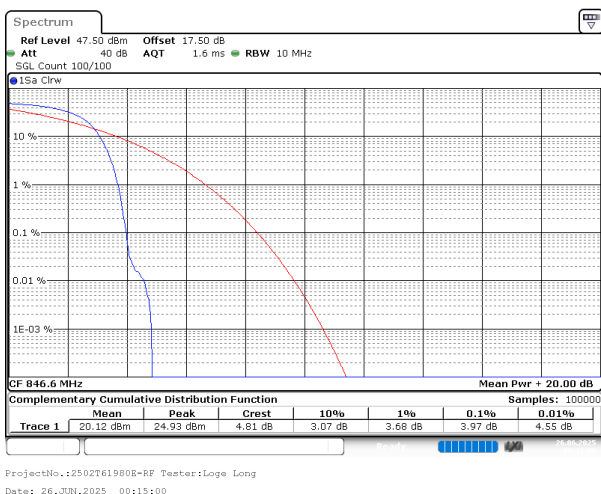
HSDPA_Low_Subtest1



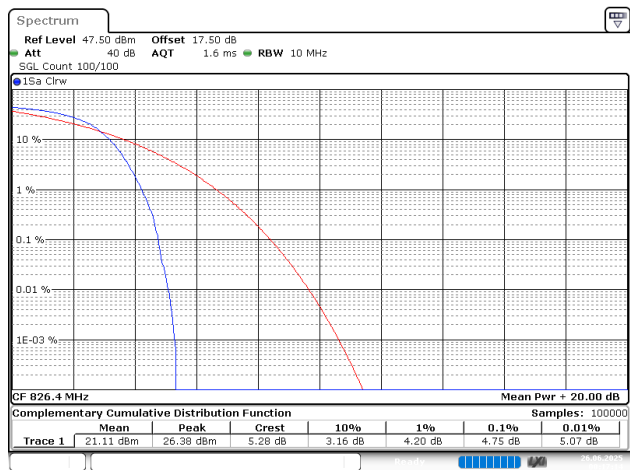
HSDPA_Middle_Subtest1



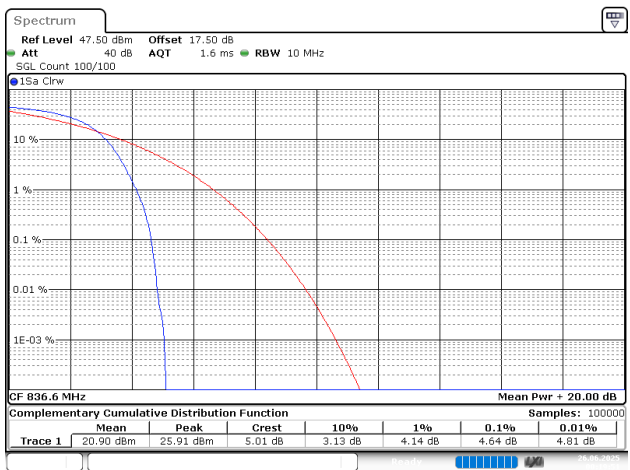
HSDPA_High_Subtest1



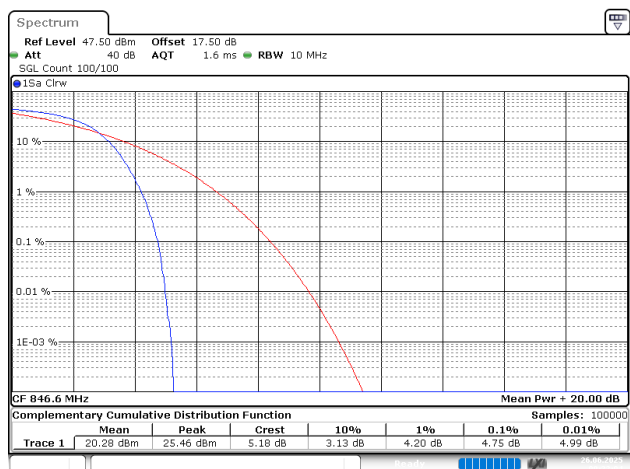
HSUPA_Low_Subtest1



HSUPA_Middle_Subtest1



HSUPA_High_Subtest1



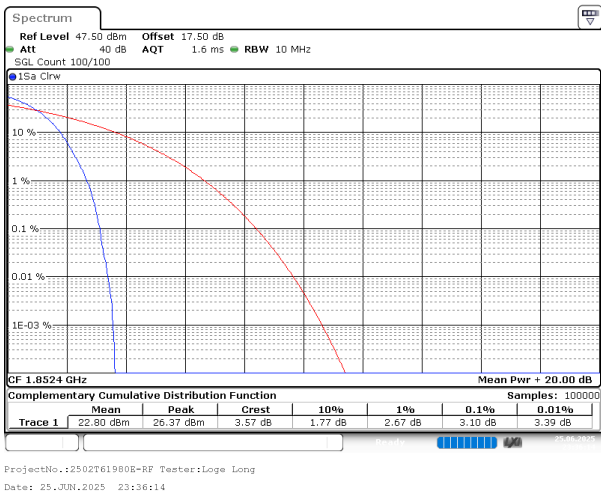
FCC Part 24E

WCDMA Band 2, Normal

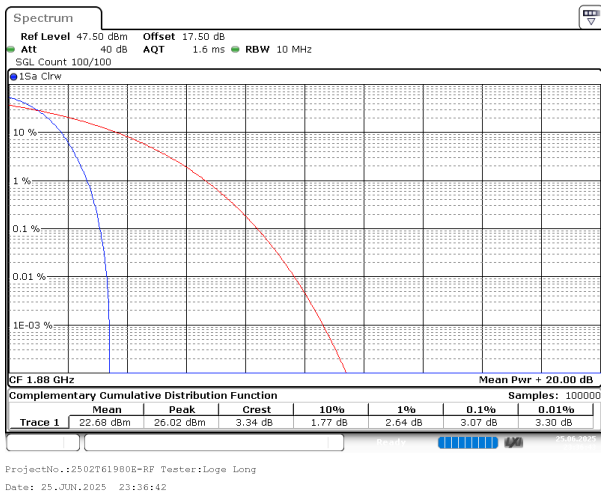
Mode	Result (dB)	Limit (dB)
R99_Low	3.10	13
R99_Middle	3.07	13
R99_High	3.10	13
HSDPA_Low_Subtest1	4.06	13
HSDPA_Middle_Subtest1	4	13
HSDPA_High_Subtest1	4.12	13
HSUPA_Low_Subtest1	4.84	13
HSUPA_Middle_Subtest1	4.75	13
HSUPA_High_Subtest1	4.81	13

WCDMA Band 2, Normal

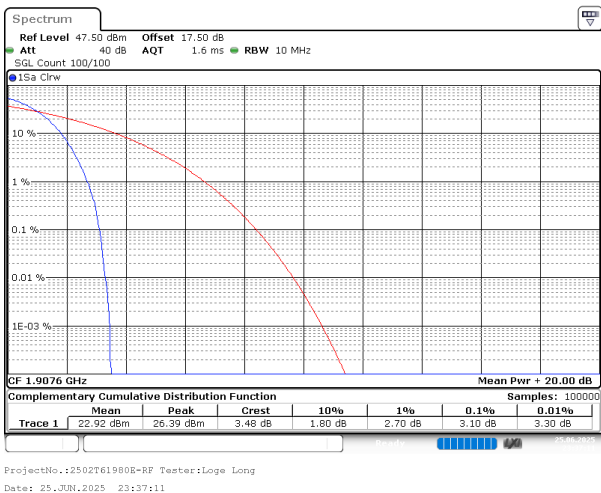
R99_Low



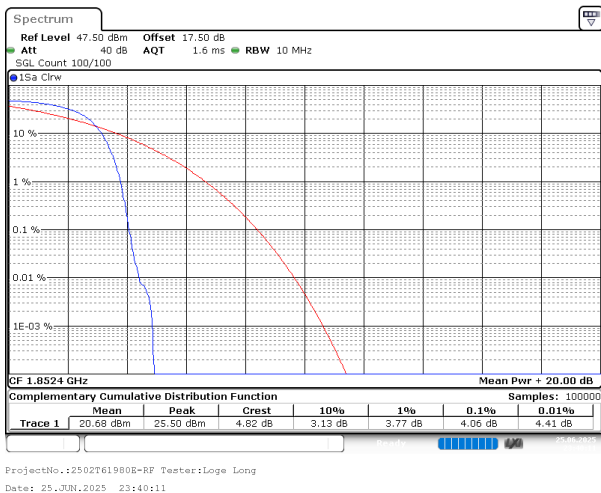
R99_Middle



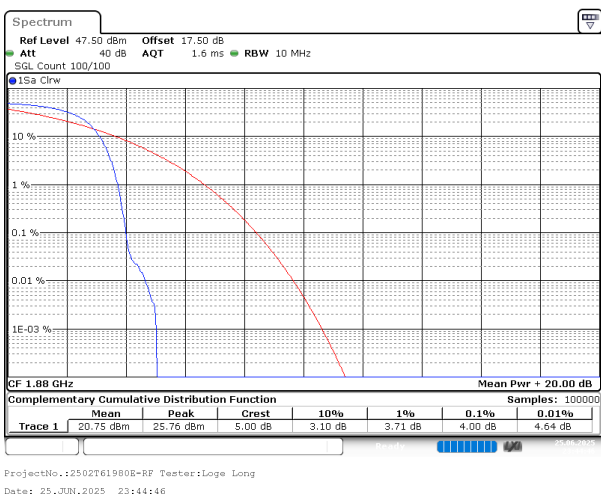
R99_High



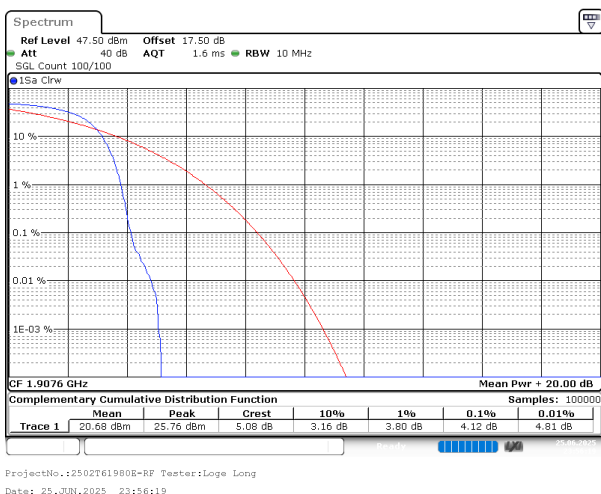
HSDPA_Low_Subtest1



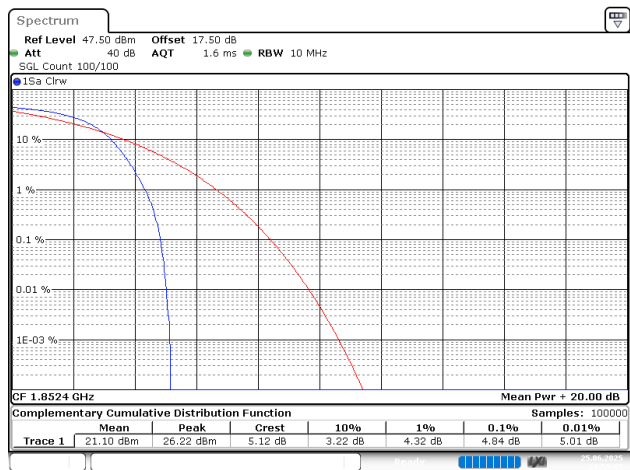
HSDPA_Middle_Subtest1



HSDPA_High_Subtest1

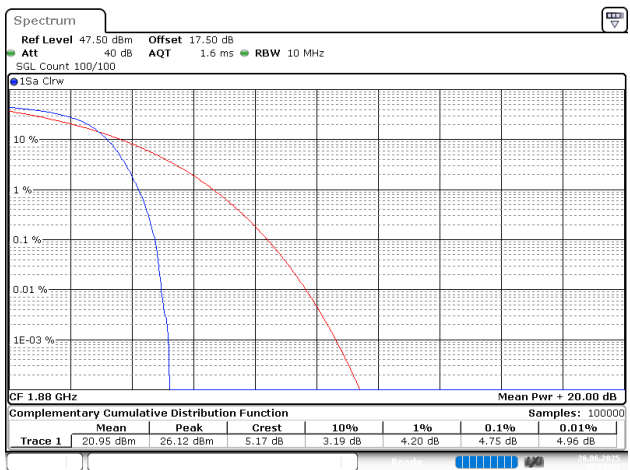


HSUPA_Low_Subtest1



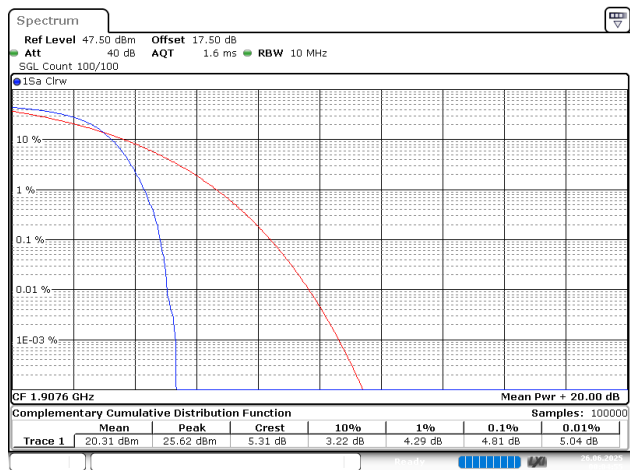
ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 25.JUN.2025 23:59:04

HSUPA_Middle_Subtest1



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 00:01:24

HSUPA_High_Subtest1



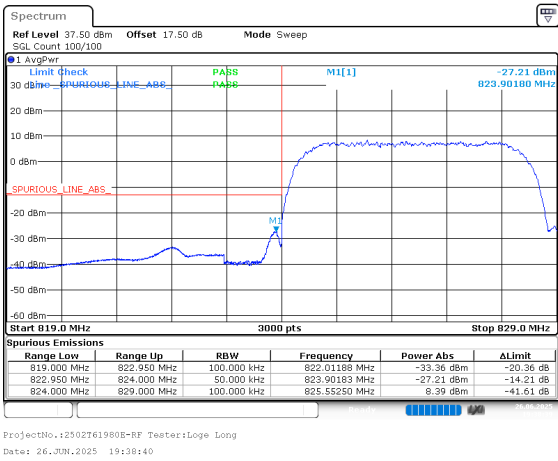
ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 00:04:55

Out of band emission,Band Edge

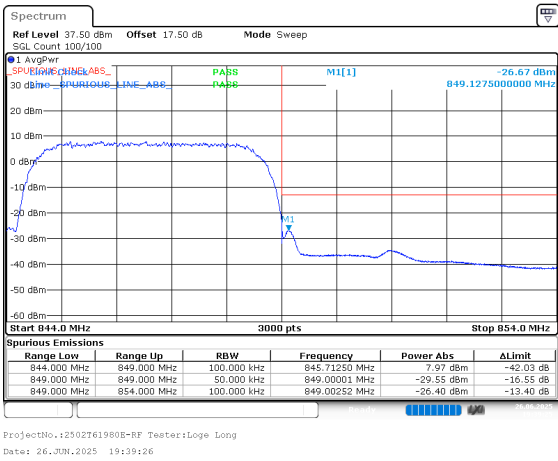
FCC Part 22H

WCDMA Band 5, Normal

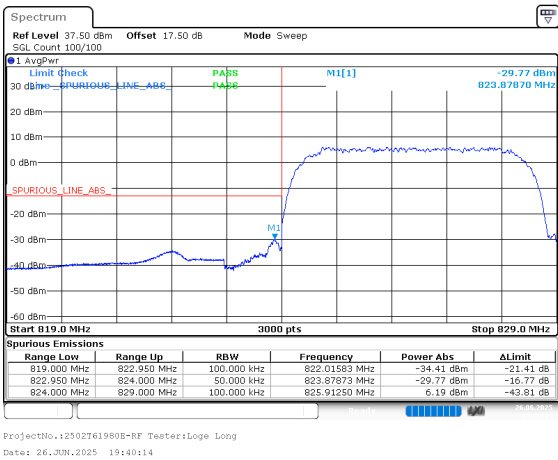
R99_Low



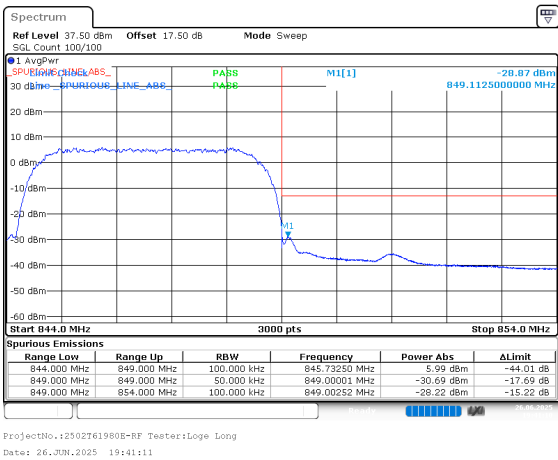
R99_High



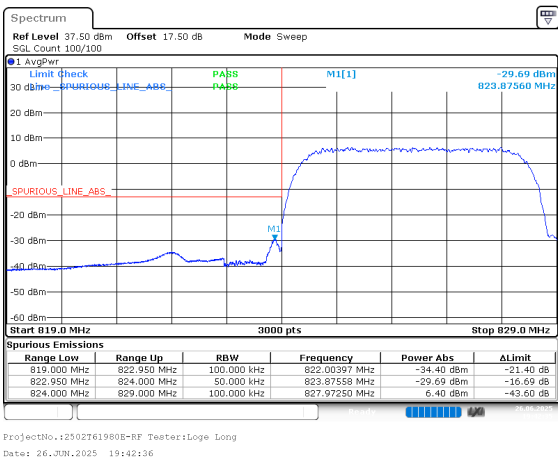
HSDPA_Low_Subtest1



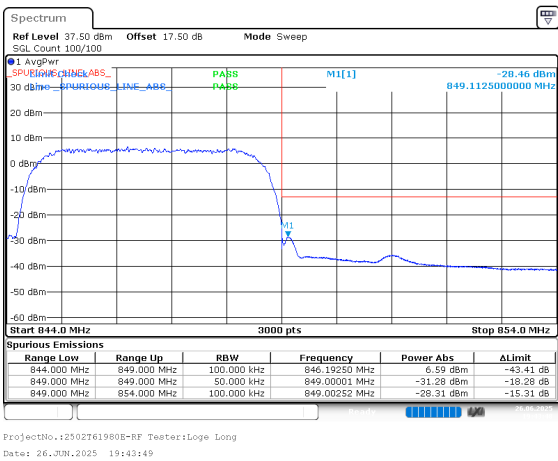
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



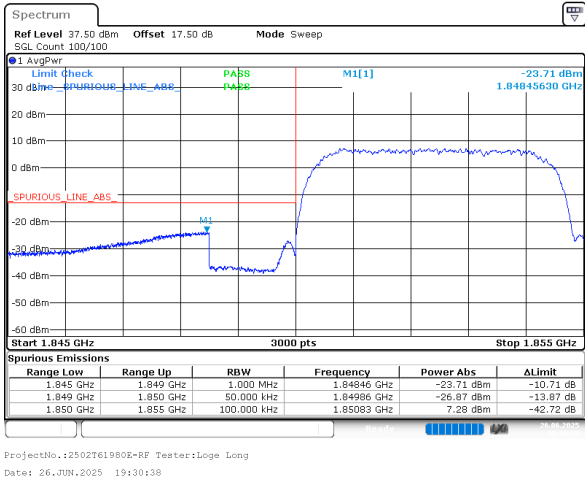
HSUPA_High_Subtest1



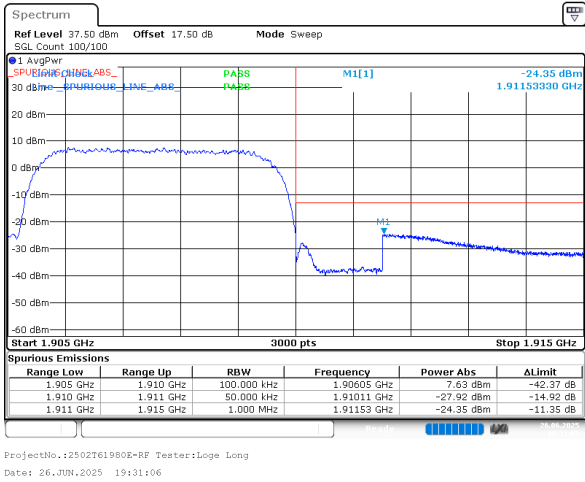
FCC Part 24E

WCDMA Band 2, Normal

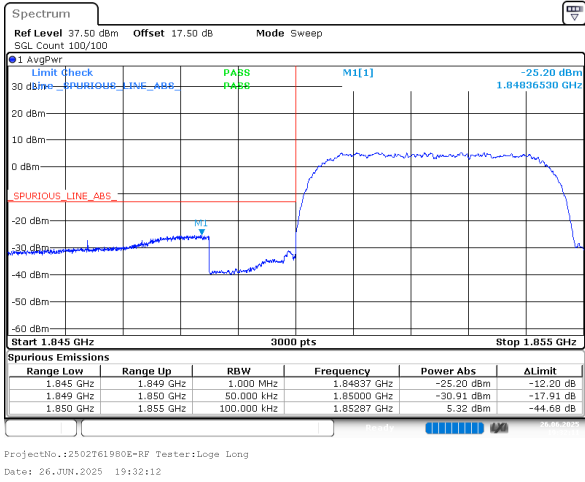
R99_Low



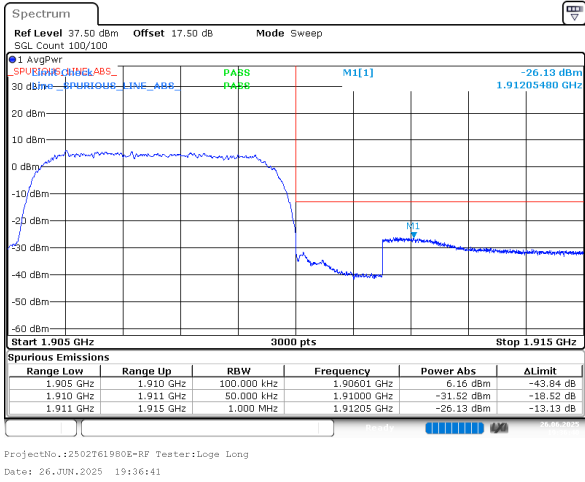
R99_High



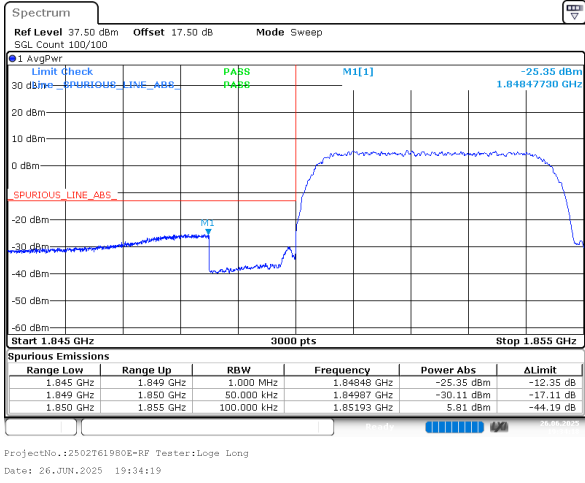
HSDPA_Low_Subtest1



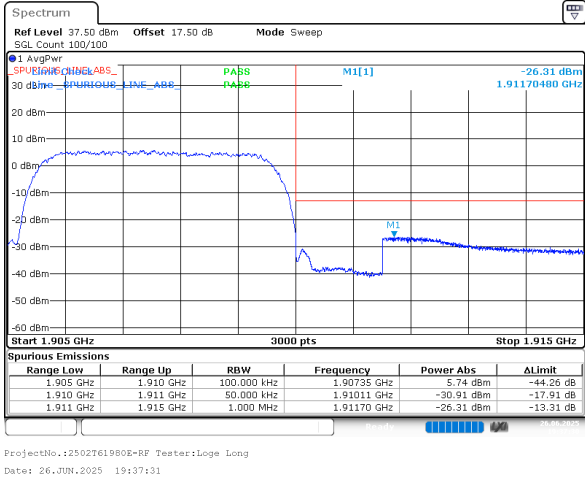
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



HSUPA_High_Subtest1

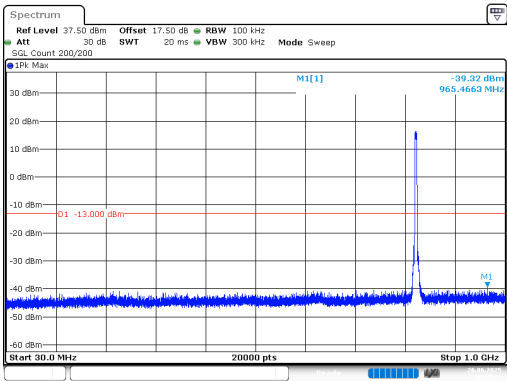


Spurious Emissions at Antenna Terminal

FCC Part 22H
WCDMA Band 5, Normal
Worst case

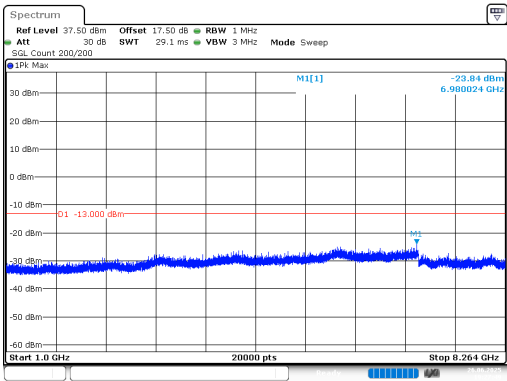
R99_Low

Below 1G



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 19:27:23

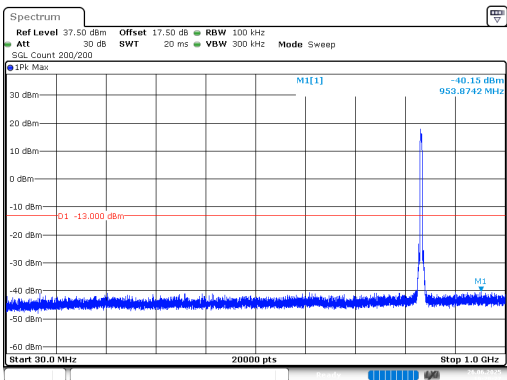
Above 1G



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 19:27:49

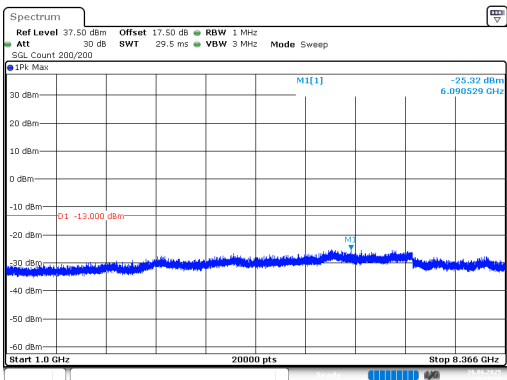
R99_Middle

Below 1G



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 19:28:28

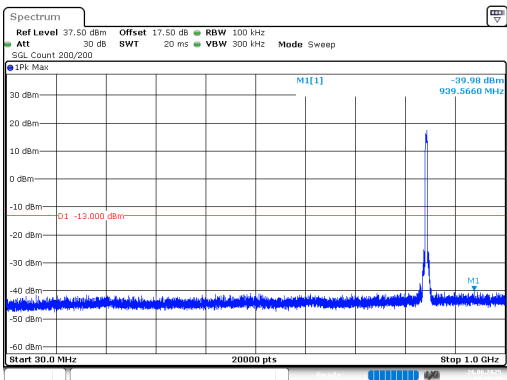
Above 1G



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 19:28:55

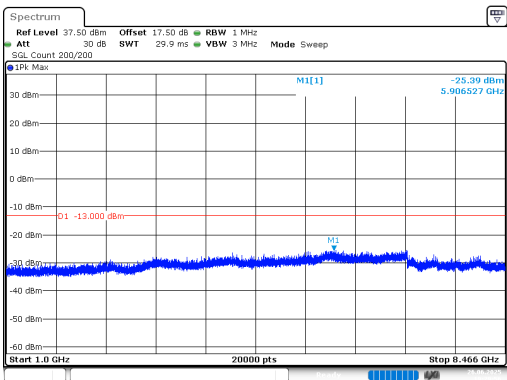
R99_High

Below 1G



ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 19:29:31

Above 1G



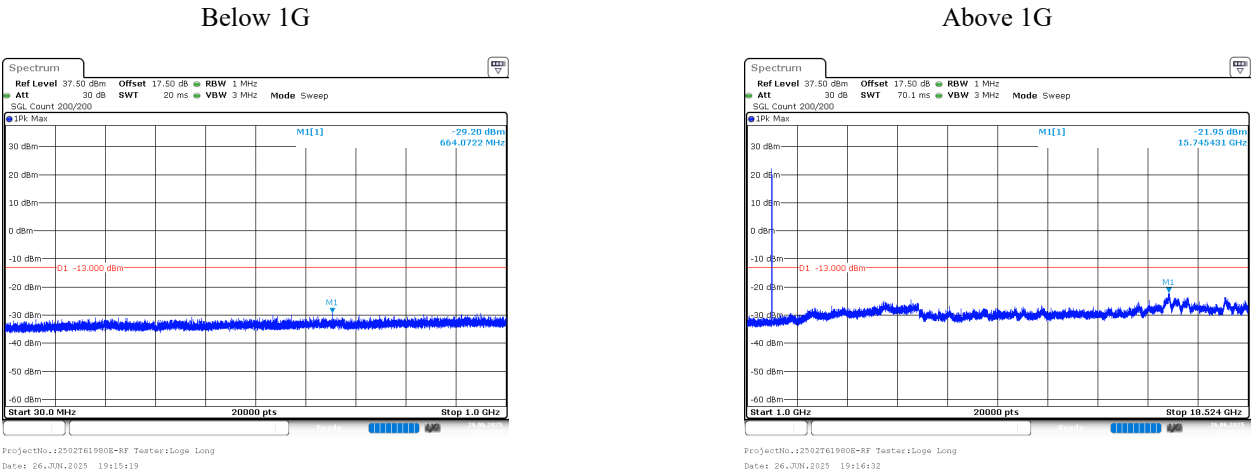
ProjectNo.:2502T61980E-RF Tester:Loge Long
Date: 26.JUN.2025 19:29:57

FCC Part 24E

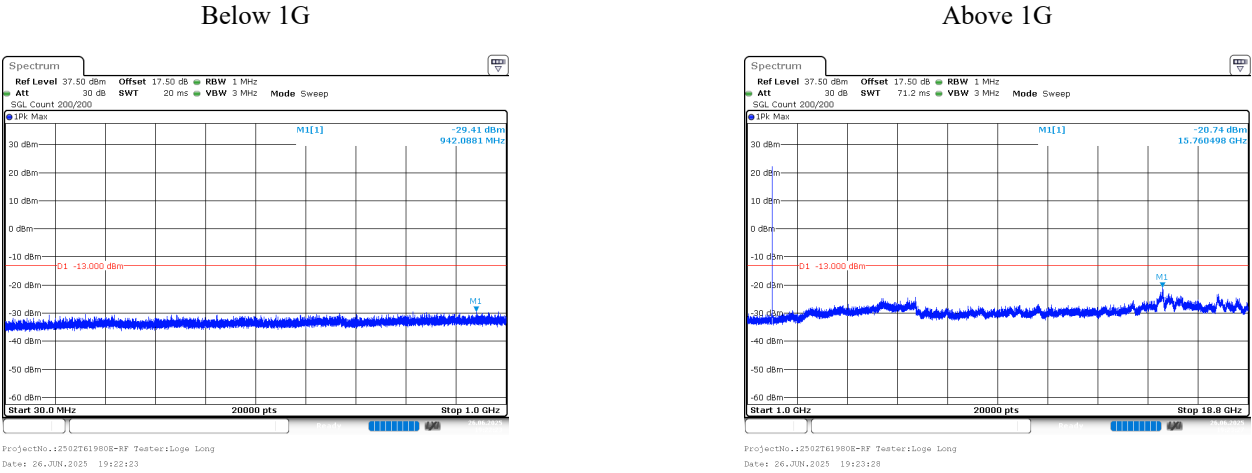
WCDMA Band 2, Normal

Worst case

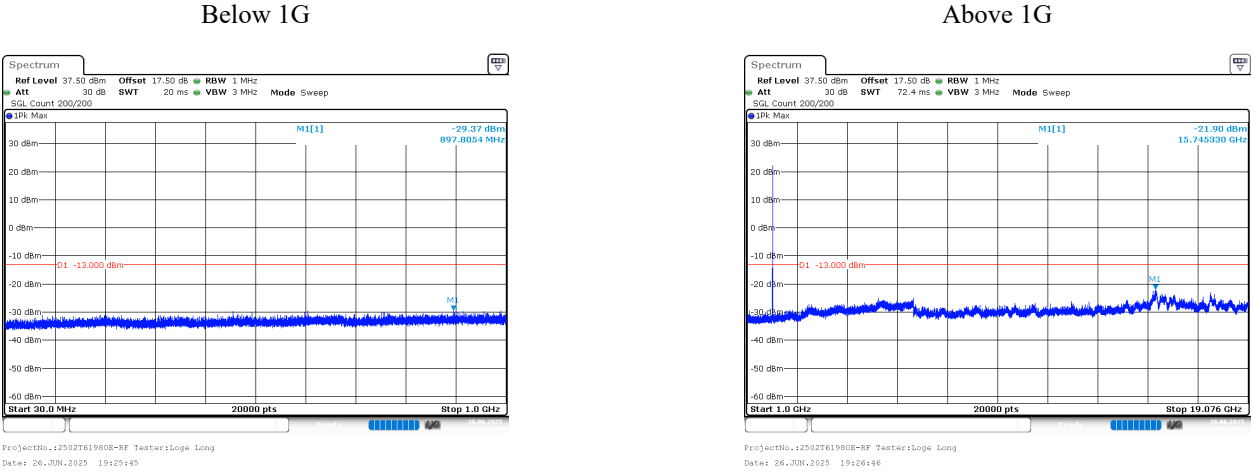
R99_Low



R99_Middle



R99_High



***** END *****