

Appendix B

Test Information:

Serial No.:	31ZT-1	Test Date:	2025/05/13~2025/05/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.2~24.9	Relative Humidity: (%)	55~63	ATM Pressure: (kPa)	101.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Micro-Coax	Coaxial Cable	UFB205A	323308-015	2024/06/01	2025/05/31
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM502	2024/06/07	2025/06/06
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-Clrucuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2025/02/25	2026/02/24
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	-12.8	-0.0153	±2.5	Pass
R99_Middle_T1/VN	836.6	-10.9	-0.0130	±2.5	Pass
R99_Middle_T2/VN	836.6	-10.9	-0.0131	±2.5	Pass
R99_Middle_T3/VN	836.6	-11.1	-0.0132	±2.5	Pass
R99_Middle_T4/VN	836.6	-11.7	-0.0139	±2.5	Pass
R99_Middle_T5/VN	836.6	-10.0	-0.0120	±2.5	Pass
R99_Middle_T6/VN	836.6	-9.9	-0.0118	±2.5	Pass
R99_Middle_T7/VN	836.6	-8.2	-0.0098	±2.5	Pass
R99_Middle_T8/VN	836.6	-11.3	-0.0135	±2.5	Pass
R99_Middle_TN/VH	836.6	-6.6	-0.0079	±2.5	Pass
R99_Middle_TN/VL	836.6	-12.4	-0.0148	±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	1850.325	1850	Pass
R99_Low_T1/VN	1850.325	1850	Pass
R99_Low_T2/VN	1850.305	1850	Pass
R99_Low_T3/VN	1850.315	1850	Pass
R99_Low_T4/VN	1850.295	1850	Pass
R99_Low_T5/VN	1850.315	1850	Pass
R99_Low_T6/VN	1850.305	1850	Pass
R99_Low_T7/VN	1850.315	1850	Pass
R99_Low_T8/VN	1850.325	1850	Pass
R99_Low_TN/VH	1850.315	1850	Pass
R99_Low_TN/VL	1850.305	1850	Pass
R99_High_TN/VN	1909.675	1910	Pass
R99_High_T1/VN	1909.705	1910	Pass
R99_High_T2/VN	1909.685	1910	Pass
R99_High_T3/VN	1909.675	1910	Pass
R99_High_T4/VN	1909.685	1910	Pass
R99_High_T5/VN	1909.675	1910	Pass
R99_High_T6/VN	1909.705	1910	Pass
R99_High_T7/VN	1909.695	1910	Pass
R99_High_T8/VN	1909.685	1910	Pass
R99_High_TN/VH	1909.675	1910	Pass
R99_High_TN/VL	1909.675	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

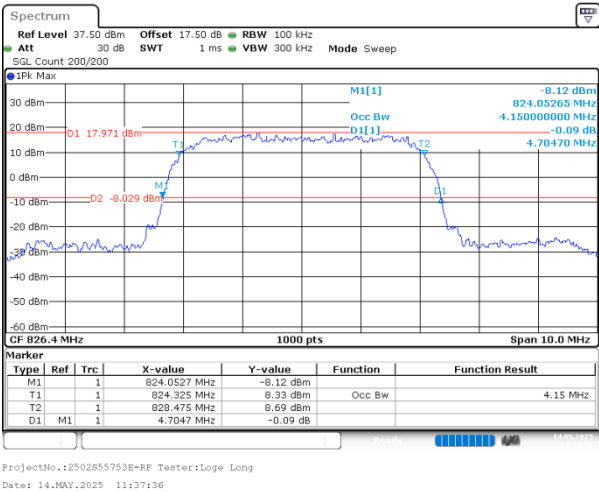
FCC Part 22H

WCDMA Band 5 , Normal

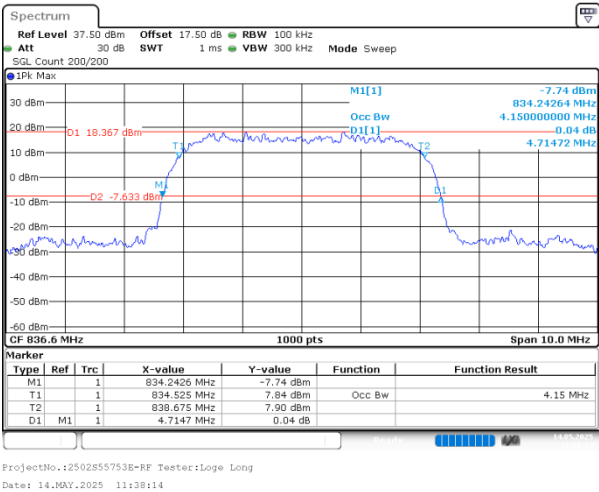
Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.150	4.705
R99_Middle	4.150	4.715
R99_High	4.180	4.745
HSDPA_Low_Subtest1	4.190	4.685
HSDPA_Middle_Subtest1	4.190	4.725
HSDPA_High_Subtest1	4.180	4.715
HSUPA_Low_Subtest1	4.200	4.705
HSUPA_Middle_Subtest1	4.180	4.715
HSUPA_High_Subtest1	4.170	4.715

WCDMA Band 5 , Normal

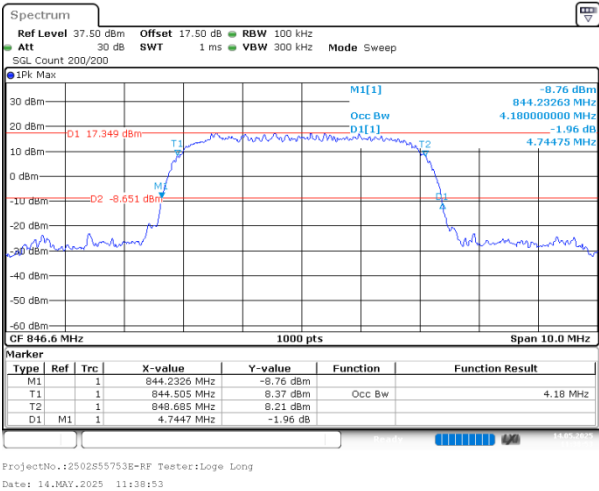
R99_Low



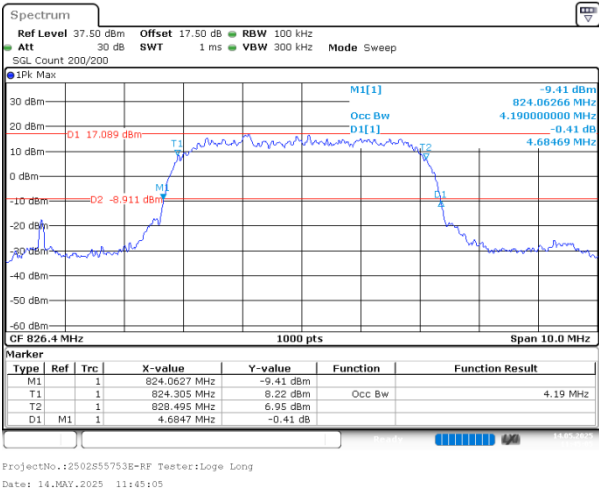
R99_Middle



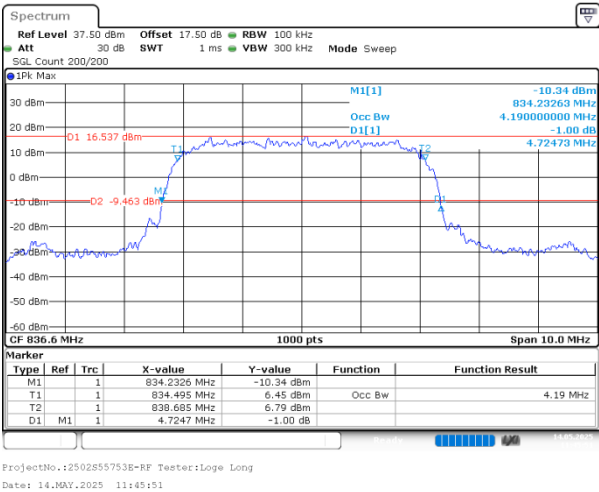
R99_High



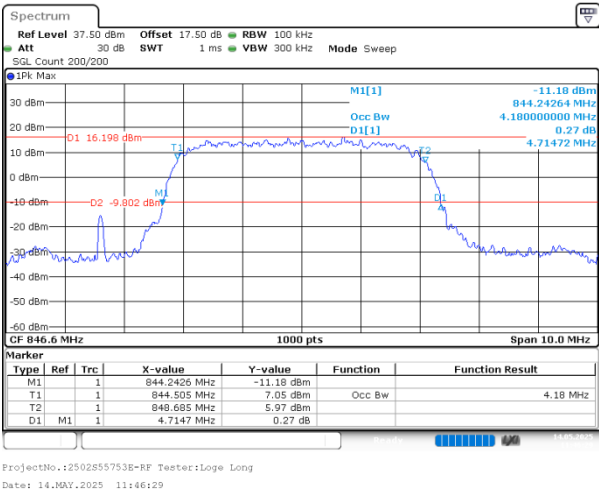
HSDPA_Low_Subtest1



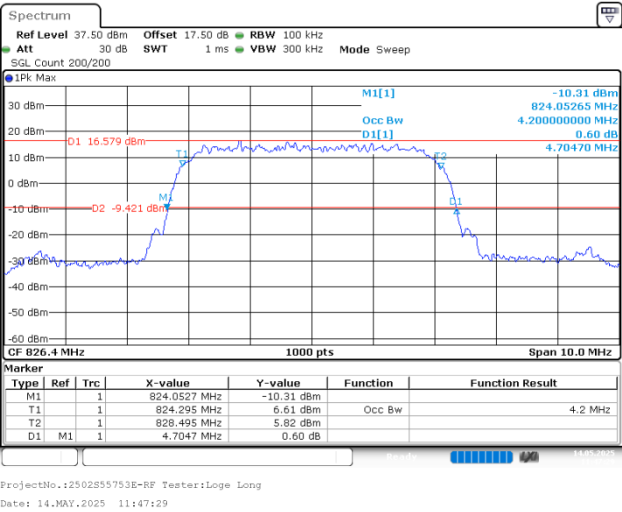
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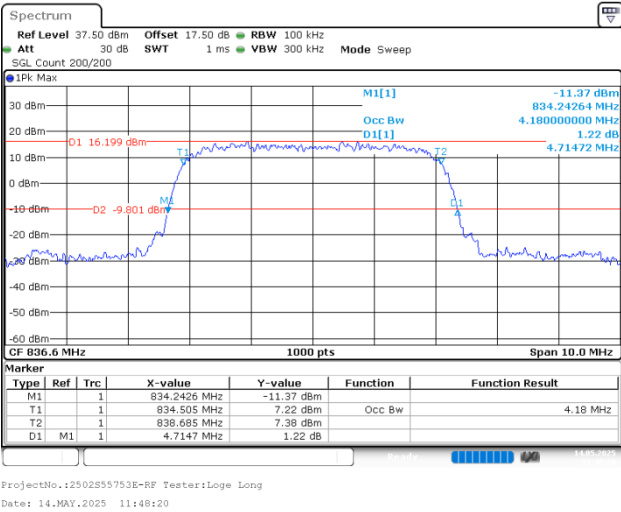
HSDPA_High_Subtest1



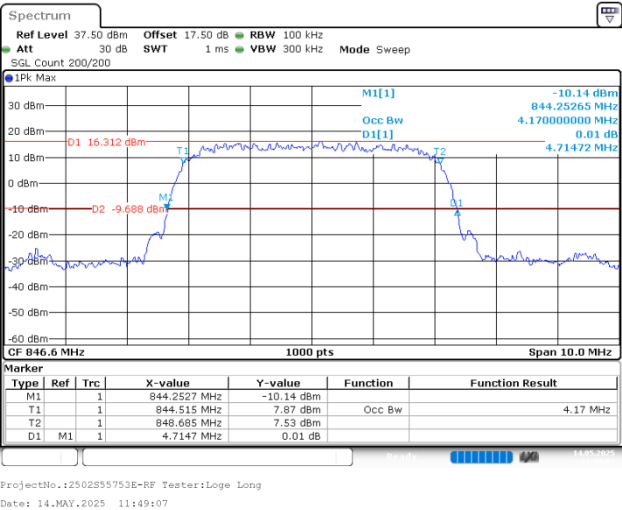
HSUPA_Low_Subtest1



HSUPA_Middle_Subtest1



HSUPA_High_Subtest1



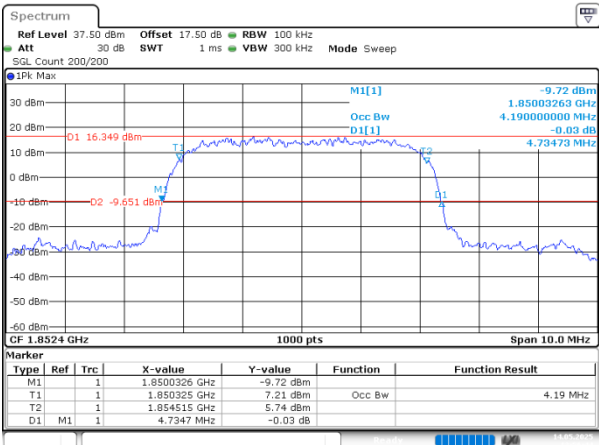
FCC Part 24E

WCDMA Band 2 , Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
R99_Low	4.190	4.735
R99_Middle	4.170	4.735
R99_High	4.180	4.715
HSDPA_Low_Subtest1	4.180	4.725
HSDPA_Middle_Subtest1	4.160	4.715
HSDPA_High_Subtest1	4.220	4.725
HSUPA_Low_Subtest1	4.190	4.715
HSUPA_Middle_Subtest1	4.200	4.735
HSUPA_High_Subtest1	4.180	4.725

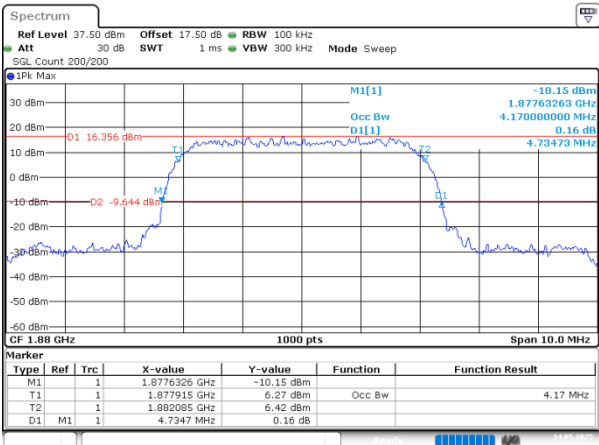
WCDMA Band 2 , Normal

R99_Low



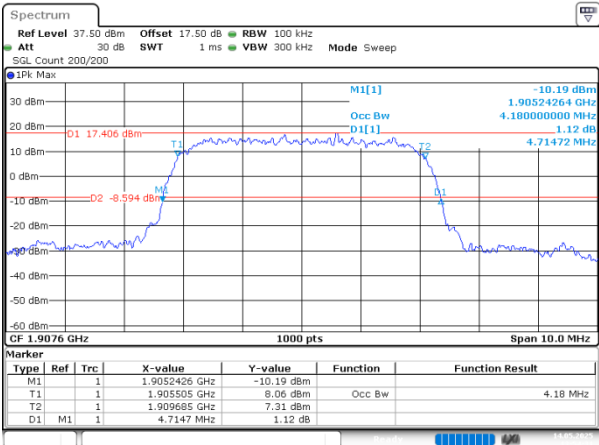
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R99_Middle



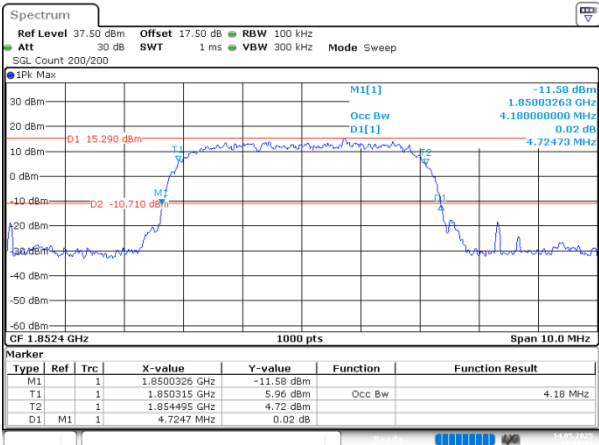
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R99_High



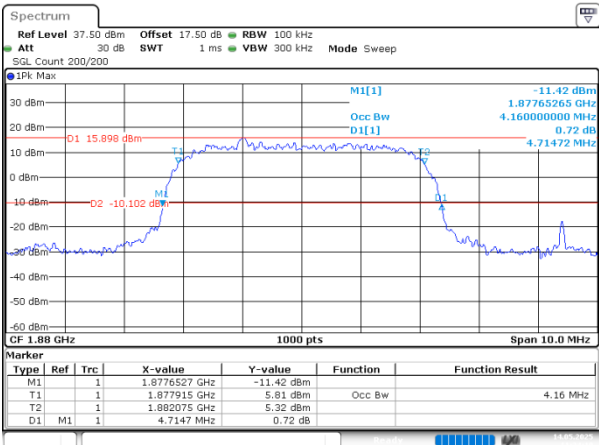
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HSDPA_Low_Subtest1



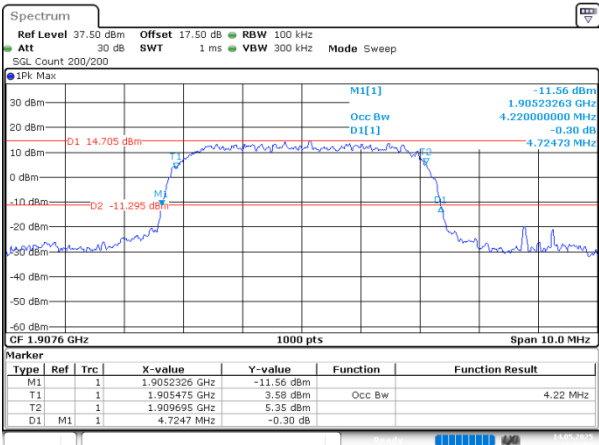
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HSDPA_Middle_Subtest1



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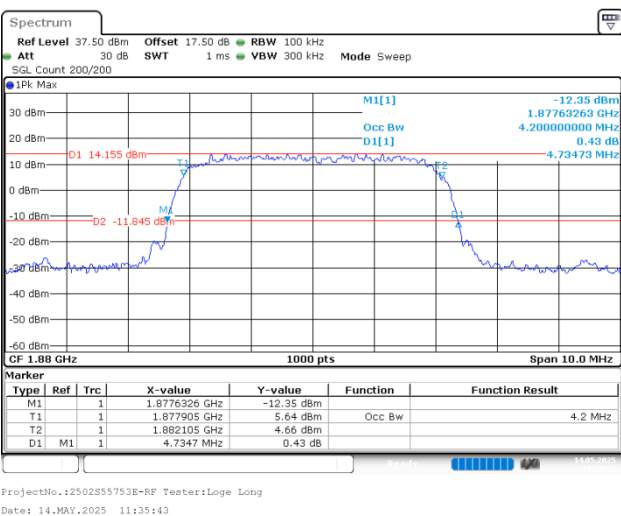
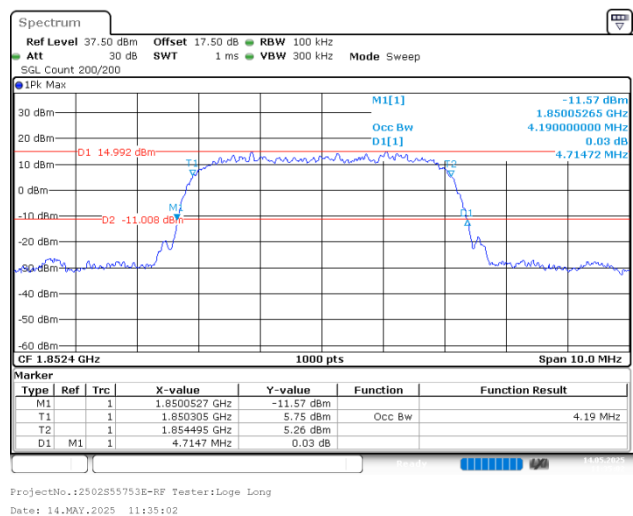
HSDPA_High_Subtest1



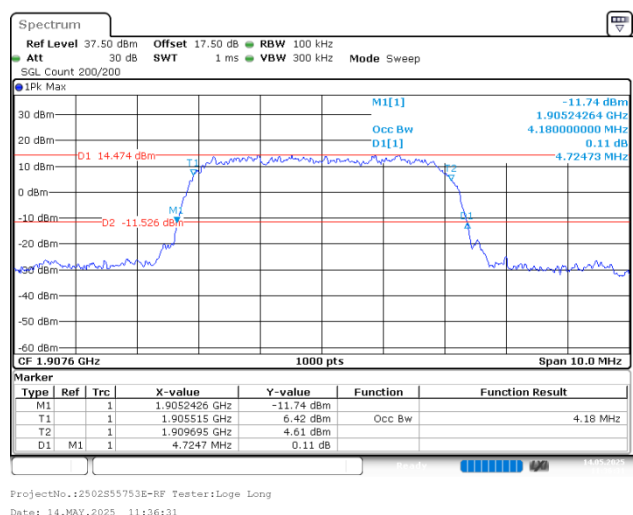
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HSUPA_Low_Subtest1

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	23.68	17.86	38.45	Pass
R99_Middle	23.73	17.91	38.45	Pass
R99_High	23.64	17.82	38.45	Pass
HSDPA_Low_Subtest1	21.72	15.90	38.45	Pass
HSDPA_Low_Subtest2	21.78	15.96	38.45	Pass
HSDPA_Low_Subtest3	21.63	15.81	38.45	Pass
HSDPA_Low_Subtest4	21.69	15.87	38.45	Pass
HSDPA_Middle_Subtest1	21.72	15.90	38.45	Pass
HSDPA_Middle_Subtest2	21.73	15.91	38.45	Pass
HSDPA_Middle_Subtest3	21.69	15.87	38.45	Pass
HSDPA_Middle_Subtest4	21.70	15.88	38.45	Pass
HSDPA_High_Subtest1	21.65	15.83	38.45	Pass
HSDPA_High_Subtest2	21.70	15.88	38.45	Pass
HSDPA_High_Subtest3	21.59	15.77	38.45	Pass
HSDPA_High_Subtest4	21.63	15.81	38.45	Pass
HSUPA_Low_Subtest1	22.08	16.26	38.45	Pass
HSUPA_Low_Subtest2	22.07	16.25	38.45	Pass
HSUPA_Low_Subtest3	22.07	16.25	38.45	Pass
HSUPA_Low_Subtest4	22.10	16.28	38.45	Pass
HSUPA_Low_Subtest5	22.08	16.26	38.45	Pass
HSUPA_Middle_Subtest1	22.13	16.31	38.45	Pass
HSUPA_Middle_Subtest2	22.16	16.34	38.45	Pass
HSUPA_Middle_Subtest3	22.15	16.33	38.45	Pass
HSUPA_Middle_Subtest4	22.15	16.33	38.45	Pass
HSUPA_Middle_Subtest5	22.15	16.33	38.45	Pass
HSUPA_High_Subtest1	22.16	16.34	38.45	Pass
HSUPA_High_Subtest2	22.14	16.32	38.45	Pass
HSUPA_High_Subtest3	22.14	16.32	38.45	Pass
HSUPA_High_Subtest4	22.06	16.24	38.45	Pass
HSUPA_High_Subtest5	22.05	16.23	38.45	Pass

Mode	Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	21.73	15.91	38.45	Pass
HSPA+_Middle_Subtest1	21.75	15.93	38.45	Pass
HSPA+_High_Subtest1	21.72	15.90	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 = -3.67dBi;

2.Cable Loss = 0dB.

FCC Part 24E

WCDMA Band 2 , Normal

Mode	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
R99_Low	23.12	20.16	33	Pass
R99_Middle	23.19	20.23	33	Pass
R99_High	23.09	20.13	33	Pass
HSDPA_Low_Subtest1	21.15	18.19	33	Pass
HSDPA_Low_Subtest2	21.29	18.33	33	Pass
HSDPA_Low_Subtest3	21.19	18.23	33	Pass
HSDPA_Low_Subtest4	21.16	18.20	33	Pass
HSDPA_Middle_Subtest1	21.36	18.40	33	Pass
HSDPA_Middle_Subtest2	21.37	18.41	33	Pass
HSDPA_Middle_Subtest3	21.20	18.24	33	Pass
HSDPA_Middle_Subtest4	21.21	18.25	33	Pass
HSDPA_High_Subtest1	21.14	18.18	33	Pass
HSDPA_High_Subtest2	21.22	18.26	33	Pass
HSDPA_High_Subtest3	21.13	18.17	33	Pass
HSDPA_High_Subtest4	21.12	18.16	33	Pass
HSUPA_Low_Subtest1	21.80	18.84	33	Pass
HSUPA_Low_Subtest2	21.80	18.84	33	Pass
HSUPA_Low_Subtest3	21.81	18.85	33	Pass
HSUPA_Low_Subtest4	21.81	18.85	33	Pass
HSUPA_Low_Subtest5	21.80	18.84	33	Pass
HSUPA_Middle_Subtest1	21.88	18.92	33	Pass
HSUPA_Middle_Subtest2	21.89	18.93	33	Pass
HSUPA_Middle_Subtest3	21.88	18.92	33	Pass
HSUPA_Middle_Subtest4	21.90	18.94	33	Pass
HSUPA_Middle_Subtest5	21.88	18.92	33	Pass
HSUPA_High_Subtest1	21.79	18.83	33	Pass
HSUPA_High_Subtest2	21.58	18.62	33	Pass
HSUPA_High_Subtest3	21.60	18.64	33	Pass
HSUPA_High_Subtest4	21.59	18.63	33	Pass
HSUPA_High_Subtest5	21.59	18.63	33	Pass

Mode	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
HSPA+_Low_Subtest1	21.76	18.80	33	Pass
HSPA+_Middle_Subtest1	21.78	18.82	33	Pass
HSPA+_High_Subtest1	21.72	18.76	33	Pass

Note:

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

1.Antenna Gain = -2.96dBi;

2.Cable Loss = 0dB.

Peak-to-average Ratio(PAR)

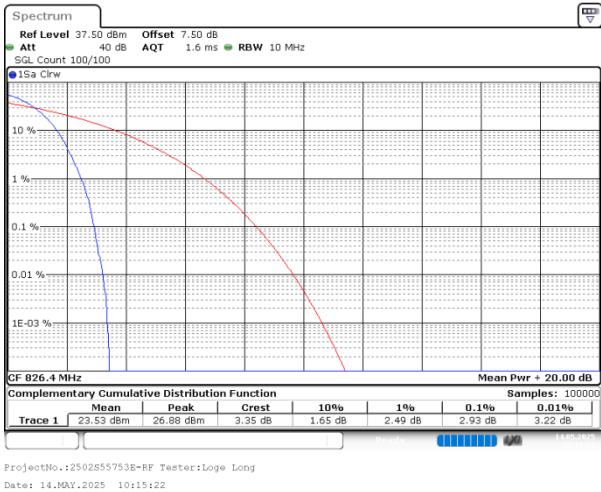
FCC Part 22H

WCDMA Band 5 , Normal

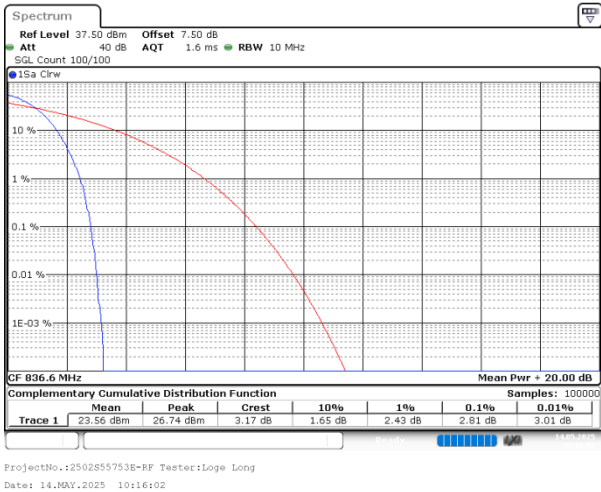
Mode	Result (dB)	Limit (dB)
R99_Low	2.93	13
R99_Middle	2.81	13
R99_High	2.93	13
HSDPA_Low_Subtest1	3.88	13
HSDPA_Middle_Subtest2	3.80	13
HSDPA_High_Subtest1	3.83	13
HSUPA_Low_Subtest1	4.64	13
HSUPA_Middle_Subtest1	4.43	13
HSUPA_High_Subtest1	4.58	13

WCDMA Band 5 , Normal

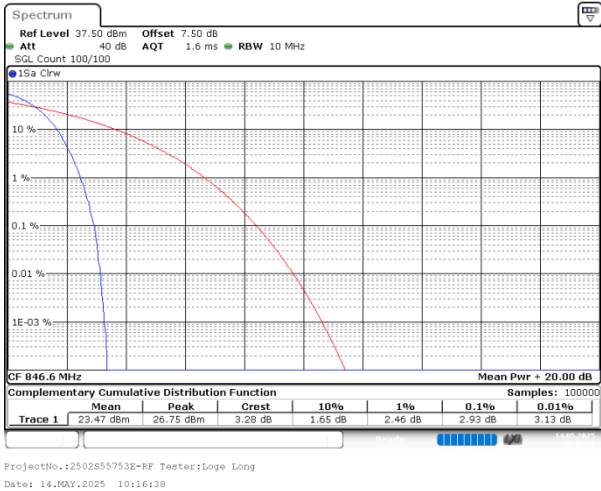
R99_Low



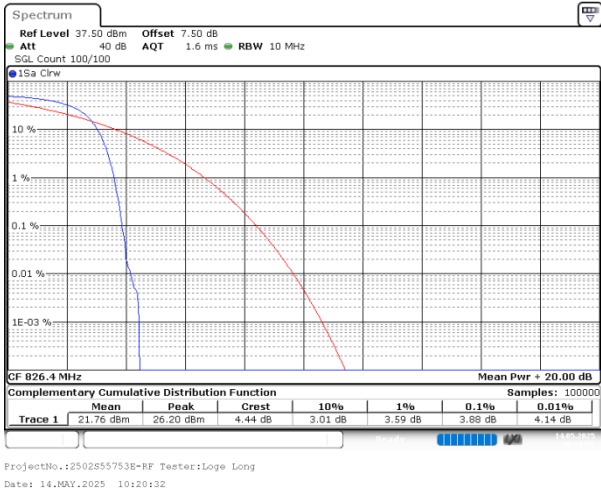
R99_Middle



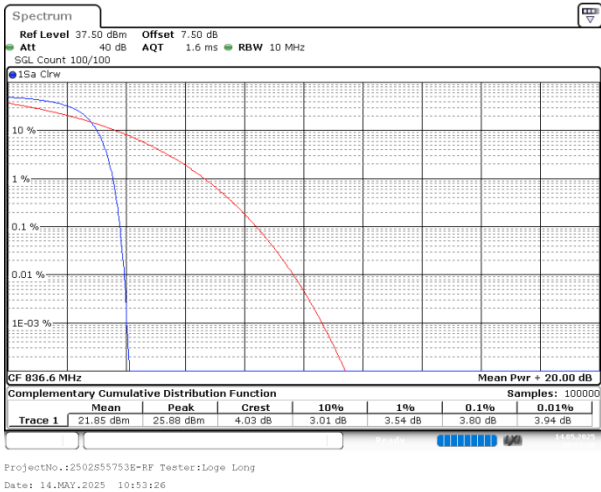
R99_High



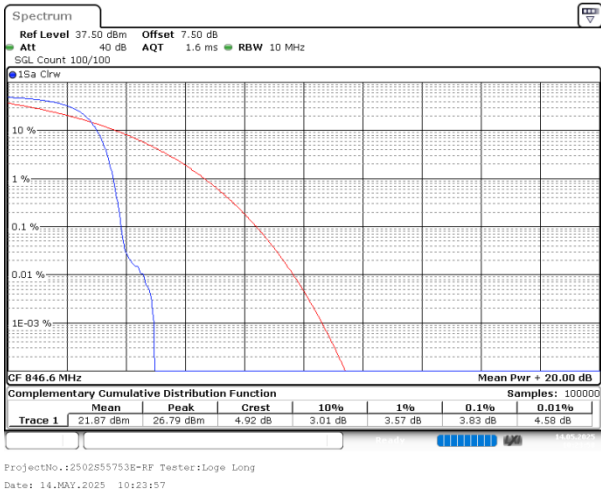
HSDPA_Low_Subtest1



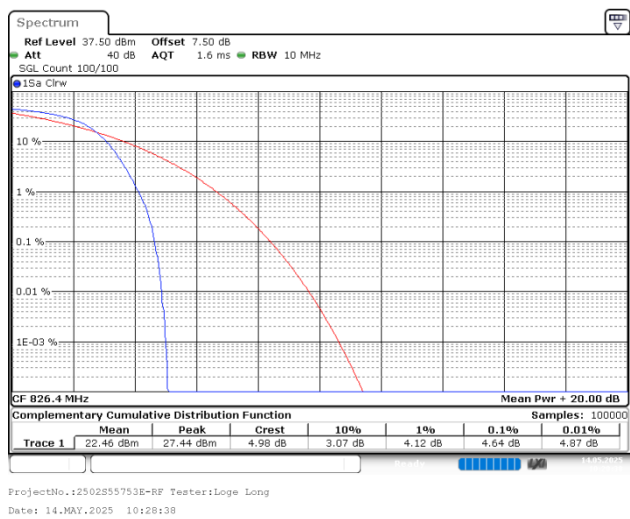
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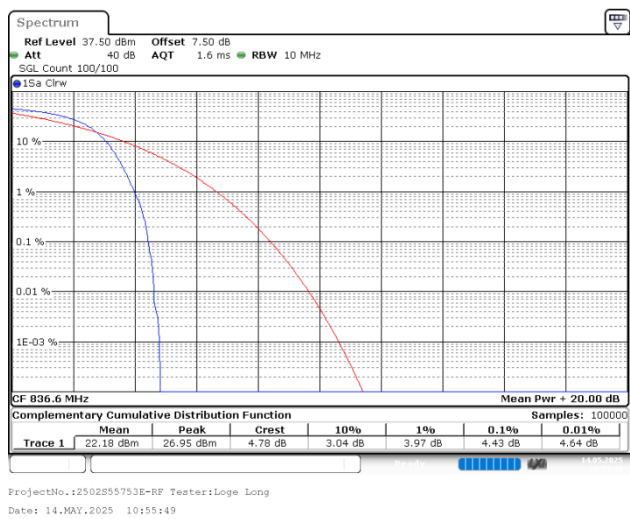
HSDPA_High_Subtest1



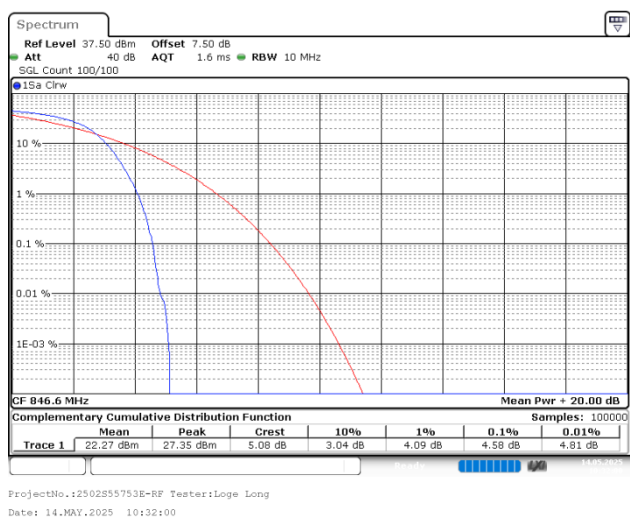
HSUPA_Low_Subtest1



HSUPA_Middle_Subtest1



HSUPA_High_Subtest1



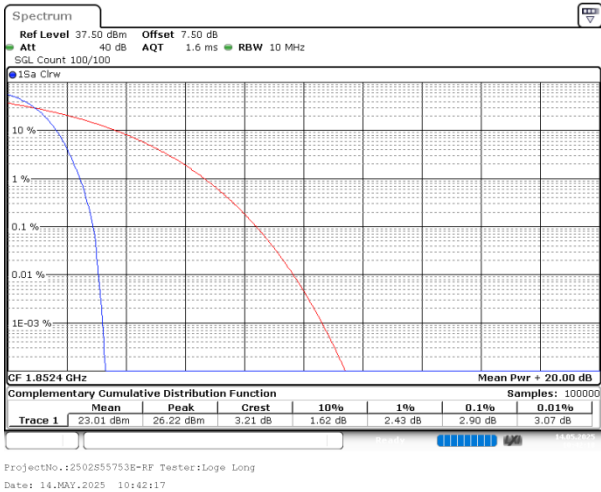
FCC Part 24E

WCDMA Band 2 , Normal

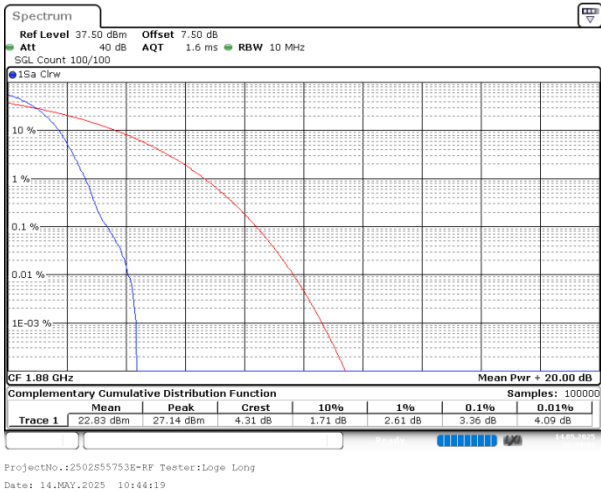
Mode	Result (dB)	Limit (dB)
R99_Low	2.90	13
R99_Middle	3.36	13
R99_High	2.93	13
HSDPA_Low_Subtest1	3.80	13
HSDPA_Middle_Subtest1	3.97	13
HSDPA_High_Subtest1	3.94	13
HSUPA_Low_Subtest1	4.52	13
HSUPA_Middle_Subtest1	4.70	13
HSUPA_High_Subtest1	4.58	13

WCDMA Band 2 , Normal

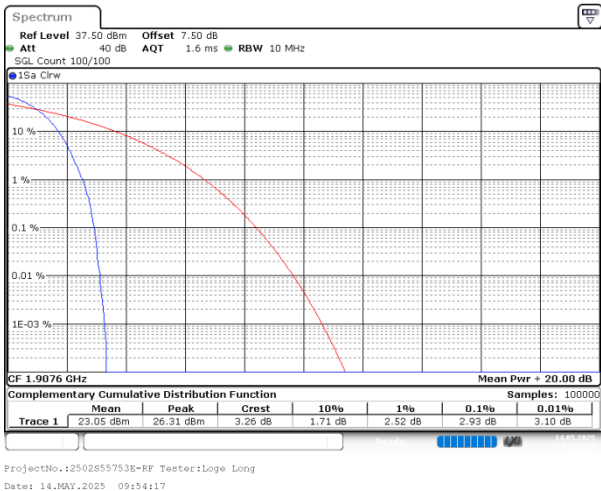
R99_Low



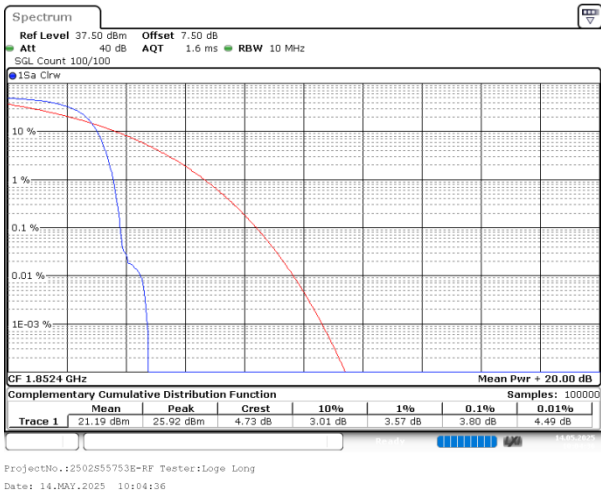
R99_Middle



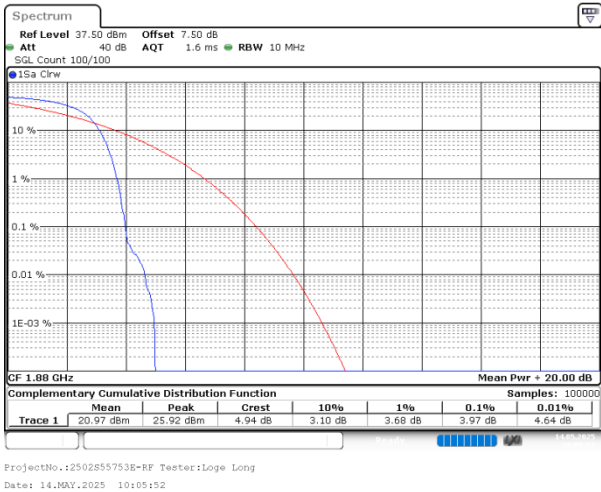
R99_High



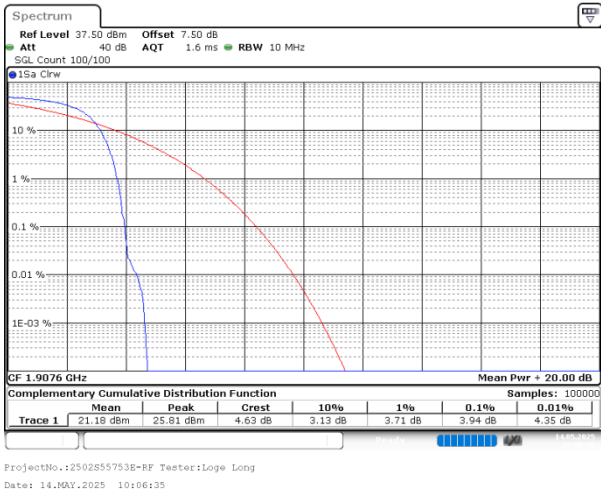
HSDPA_Low_Subtest1



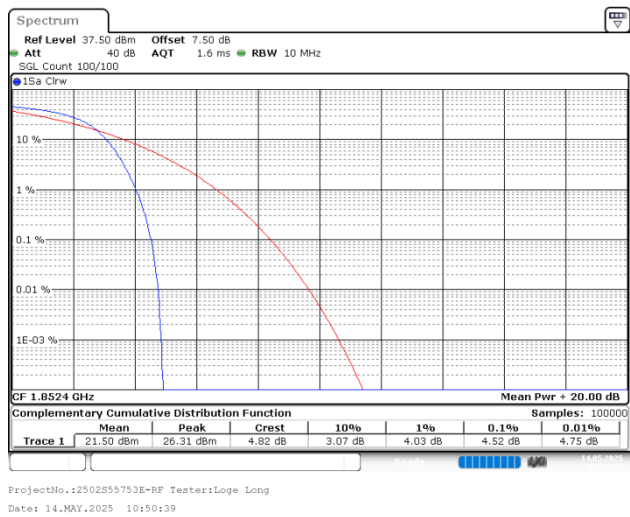
HSDPA_Middle_Subtest1



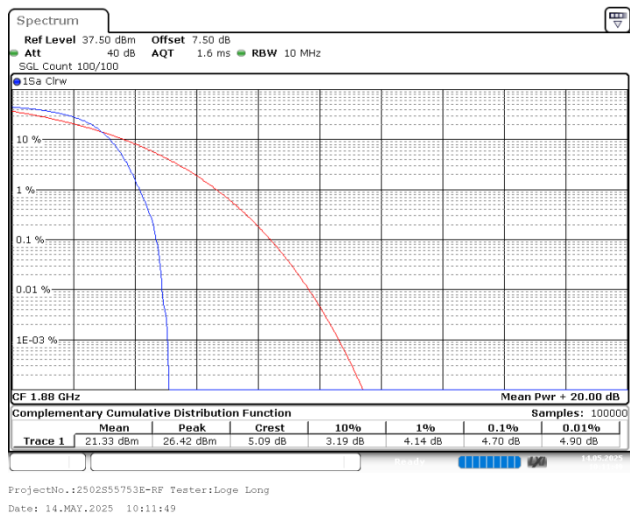
HSDPA_High_Subtest1



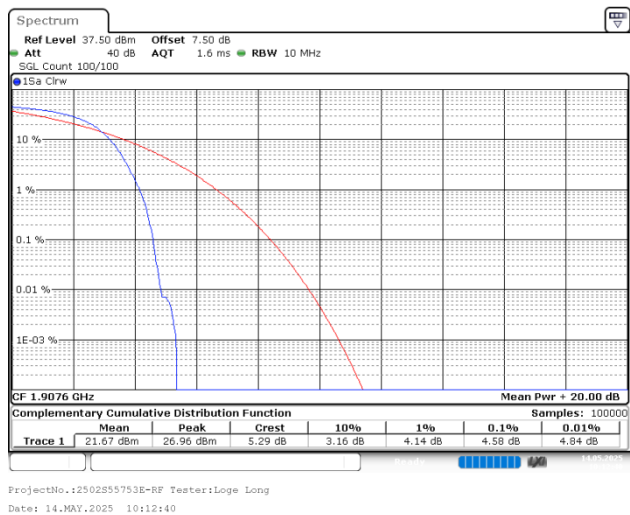
HSUPA_Low_Subtest1



HSUPA_Middle_Subtest1



HSUPA_High_Subtest1

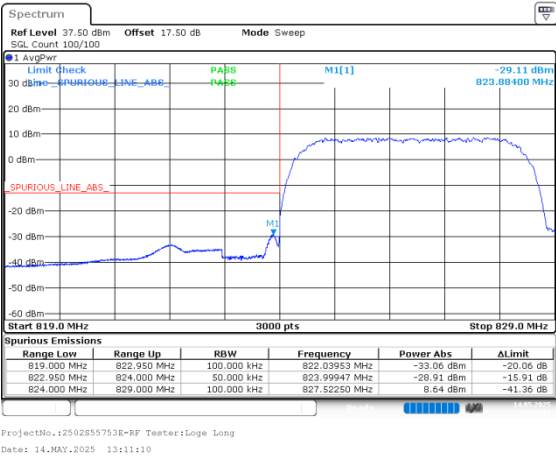


Out of band emission,Band Edge

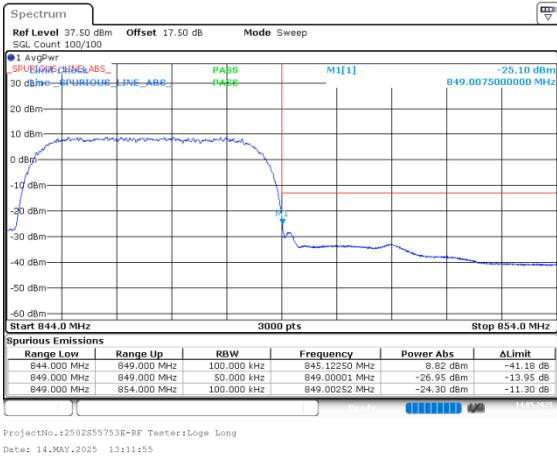
FCC Part 22H

WCDMA Band 5 , Normal

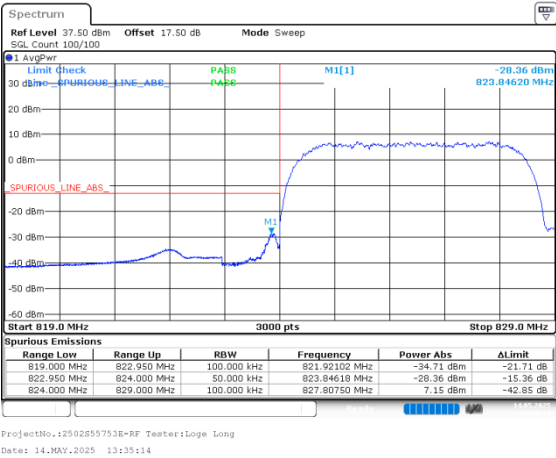
R99_Low



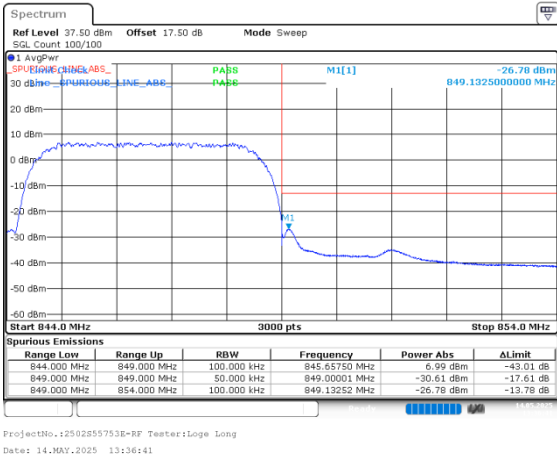
R99_High



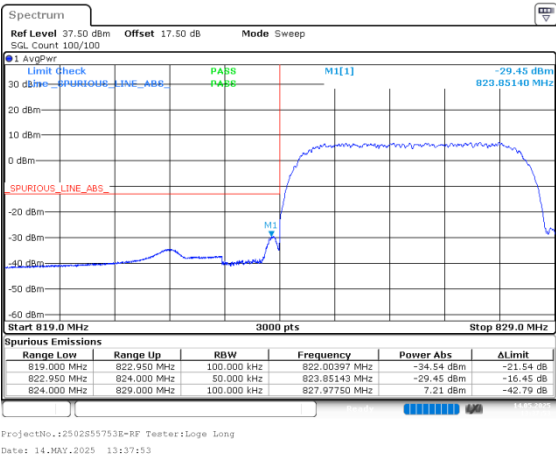
HSDPA_Low_Subtest1



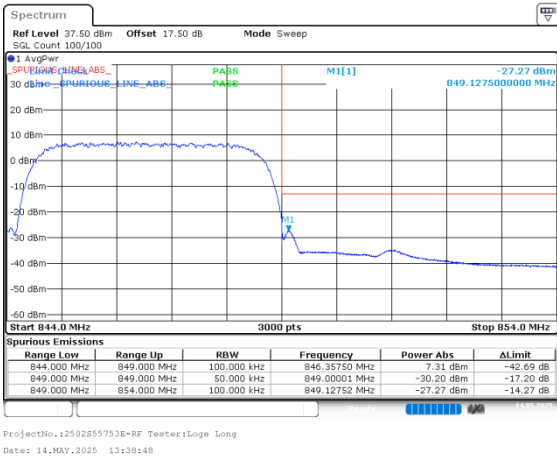
HSDPA_High_Subtest1



HSUPA_Low_Subtest1



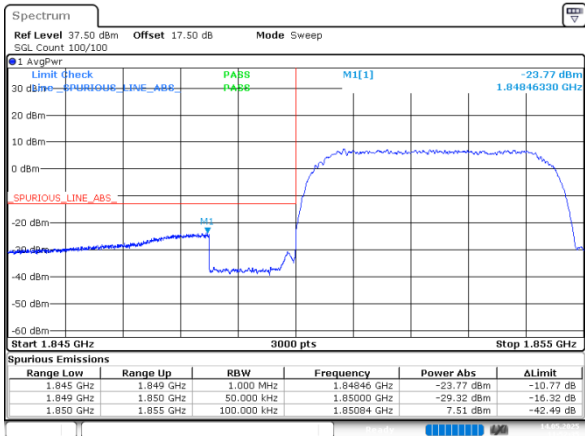
HSUPA_High_Subtest1



FCC Part 24E

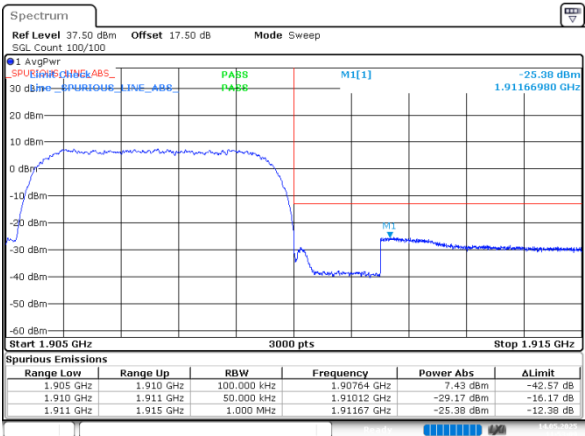
WCDMA Band 2 , Normal

R99_Low



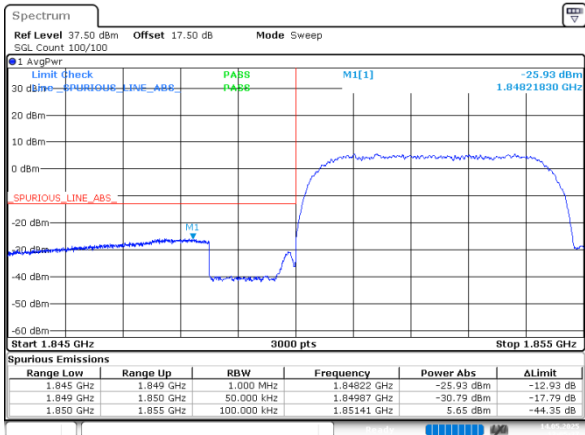
ProjectNo.:2502S55753E-RF Tester:Loge Long
Date: 14.MAY.2025 11:52:36

R99_High



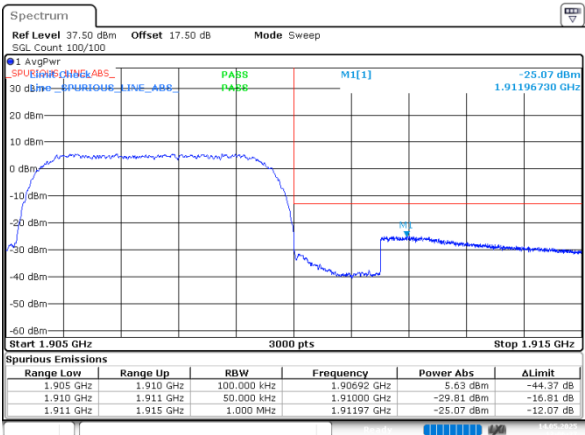
ProjectNo.:2502S55753E-RF Tester:Loge Long
Date: 14.MAY.2025 11:53:09

HSDPA_Low_Subtest1



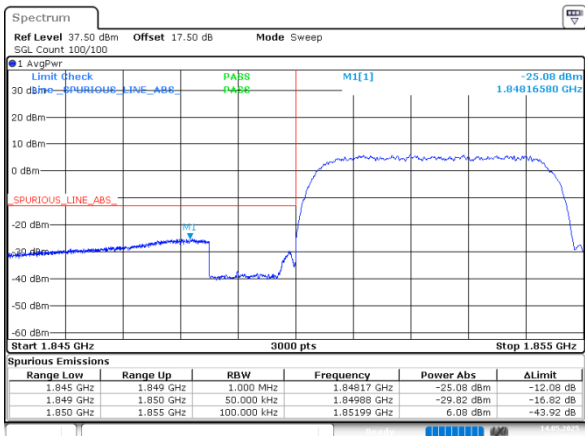
ProjectNo.:2502S55753E-RF Tester:Loge Long
Date: 14.MAY.2025 13:05:37

HSDPA_High_Subtest1



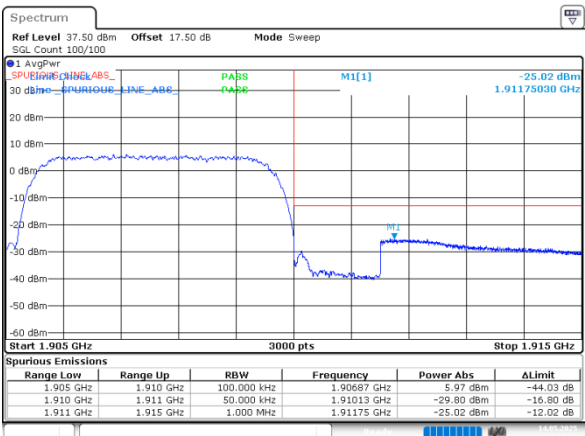
ProjectNo.:2502S55753E-RF Tester:Loge Long
Date: 14.MAY.2025 13:06:37

HSUPA_Low_Subtest1



ProjectNo.:2502S55753E-RF Tester:Loge Long
Date: 14.MAY.2025 13:09:24

HSUPA_High_Subtest1



ProjectNo.:2502S55753E-RF Tester:Loge Long
Date: 14.MAY.2025 13:10:11

Spurious Emissions at Antenna Terminal

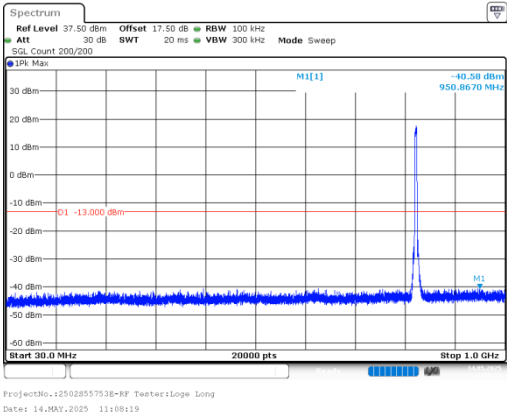
FCC Part 22H

WCDMA Band 5 , Normal

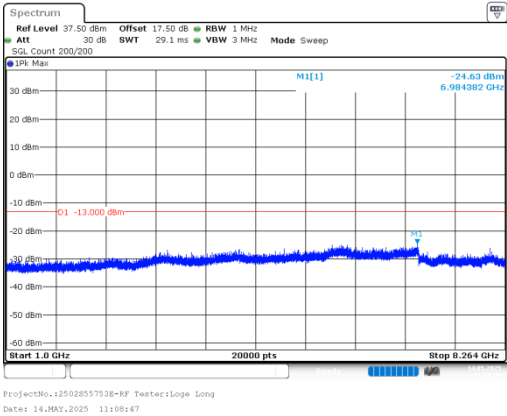
Worst case

R99_Low

Below 1G

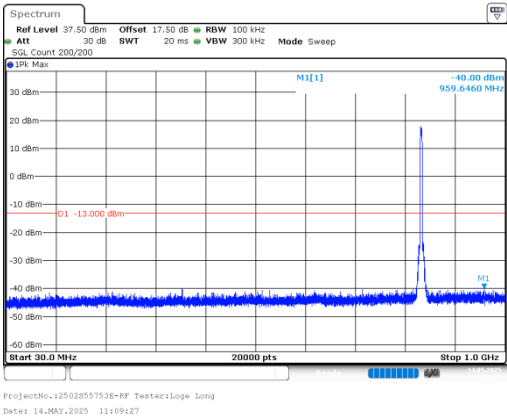


Above 1G

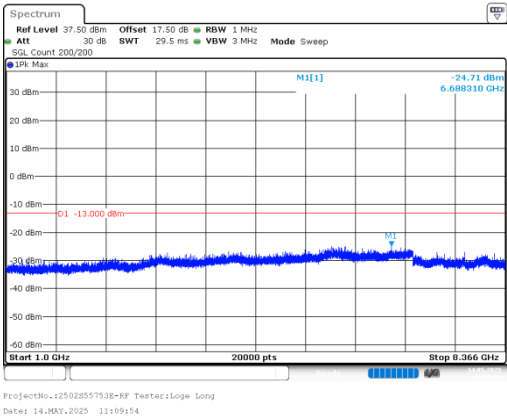


R99_Middle

Below 1G

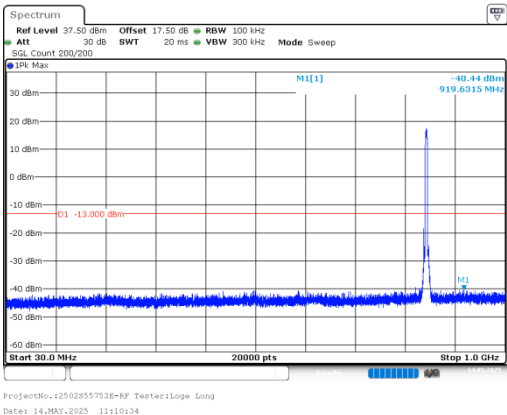


Above 1G

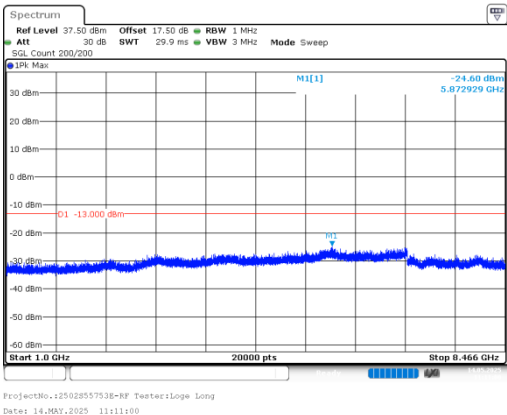


R99_High

Below 1G



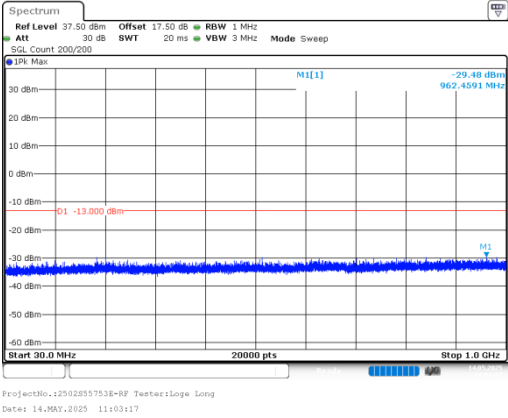
Above 1G



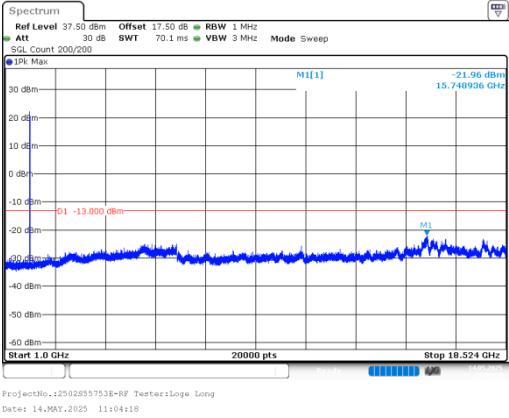
FCC Part 24E
WCDMA Band 2 , Normal
Worst case

R99_Low

Below 1G

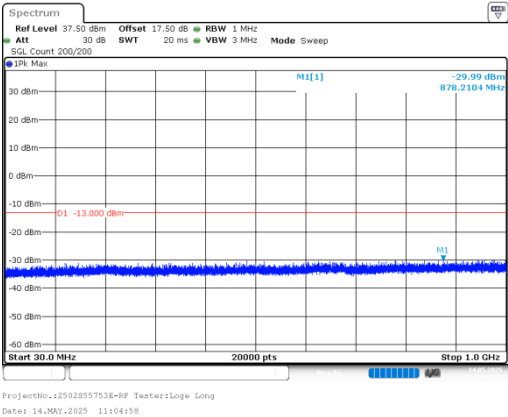


Above 1G

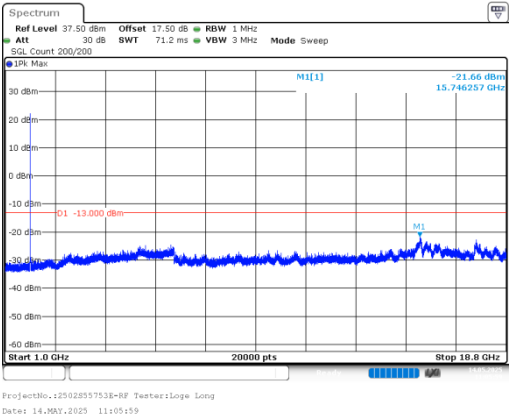


R99_Middle

Below 1G

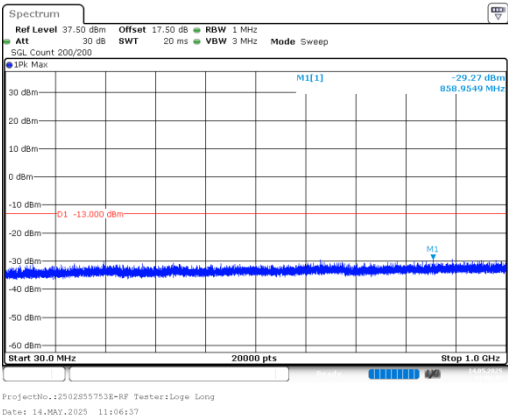


Above 1G

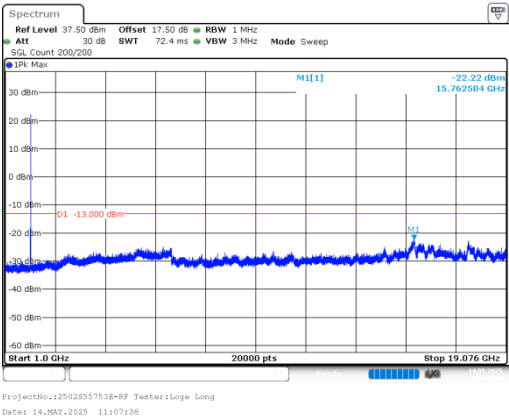


R99_High

Below 1G



Above 1G



***** END *****