

Appendix A

Test Information:

Serial No.:	2YHK-5	Test Date:	2025/03/16~2025/03/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	20.7~22.1	Relative Humidity: (%)	33~42	ATM Pressure: (kPa)	101.7~102.0
----------------------	-----------	---------------------------	-------	------------------------	-------------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Micro-Coax	Coaxial Cable	UFB205A	323308-012	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-Clrucits	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

GSM 850

Mode	Test Channel (MHz)	Frequency Error		Limit (ppm)	Verdict
		(Hz)	(ppm)		
GSM_Middle_TN/VN	836.6	10.3	0.0123	±2.5	Pass
GSM_Middle_T1/VN	836.6	11.2	0.0134	±2.5	Pass
GSM_Middle_T2/VN	836.6	12.3	0.0147	±2.5	Pass
GSM_Middle_T3/VN	836.6	8.9	0.0107	±2.5	Pass
GSM_Middle_T4/VN	836.6	7.9	0.0095	±2.5	Pass
GSM_Middle_T5/VN	836.6	9.0	0.0108	±2.5	Pass
GSM_Middle_T6/VN	836.6	10.0	0.0119	±2.5	Pass
GSM_Middle_T7/VN	836.6	10.6	0.0126	±2.5	Pass
GSM_Middle_T8/VN	836.6	9.2	0.0110	±2.5	Pass
GSM_Middle_TN/VH	836.6	9.7	0.0116	±2.5	Pass
GSM_Middle_TN/VL	836.6	10.0	0.0119	±2.5	Pass
EDGE_Middle_Slot1_TN/VN	836.6	6.8	0.0082	±2.5	Pass
EDGE_Middle_Slot1_T1/VN	836.6	8.1	0.0097	±2.5	Pass
EDGE_Middle_Slot1_T2/VN	836.6	5.5	0.0066	±2.5	Pass
EDGE_Middle_Slot1_T3/VN	836.6	7.7	0.0091	±2.5	Pass
EDGE_Middle_Slot1_T4/VN	836.6	7.7	0.0092	±2.5	Pass
EDGE_Middle_Slot1_T5/VN	836.6	9.0	0.0107	±2.5	Pass
EDGE_Middle_Slot1_T6/VN	836.6	8.5	0.0101	±2.5	Pass
EDGE_Middle_Slot1_T7/VN	836.6	6.9	0.0082	±2.5	Pass
EDGE_Middle_Slot1_T8/VN	836.6	7.0	0.0084	±2.5	Pass
EDGE_Middle_Slot1_TN/VH	836.6	8.5	0.0102	±2.5	Pass
EDGE_Middle_Slot1_TN/VL	836.6	8.0	0.0095	±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

GSM 1900

Mode	Result (MHz)	Limit (MHz)	Verdict
GSM_Low_TN/VN	1850.080	1850	Pass
GSM_Low_T1/VN	1850.076	1850	Pass
GSM_Low_T2/VN	1850.076	1850	Pass
GSM_Low_T3/VN	1850.080	1850	Pass
GSM_Low_T4/VN	1850.079	1850	Pass
GSM_Low_T5/VN	1850.079	1850	Pass
GSM_Low_T6/VN	1850.080	1850	Pass
GSM_Low_T7/VN	1850.078	1850	Pass
GSM_Low_T8/VN	1850.079	1850	Pass
GSM_Low_TN/VH	1850.080	1850	Pass
GSM_Low_TN/VL	1850.077	1850	Pass
GSM_High_TN/VN	1909.924	1910	Pass
GSM_High_T1/VN	1909.925	1910	Pass
GSM_High_T2/VN	1909.924	1910	Pass
GSM_High_T3/VN	1909.923	1910	Pass
GSM_High_T4/VN	1909.923	1910	Pass
GSM_High_T5/VN	1909.924	1910	Pass
GSM_High_T6/VN	1909.925	1910	Pass
GSM_High_T7/VN	1909.925	1910	Pass
GSM_High_T8/VN	1909.925	1910	Pass
GSM_High_TN/VH	1909.924	1910	Pass
GSM_High_TN/VL	1909.923	1910	Pass
EDGE_Low_Slot1_TN/VN	1850.083	1850	Pass
EDGE_Low_Slot1_T1/VN	1850.077	1850	Pass
EDGE_Low_Slot1_T2/VN	1850.072	1850	Pass
EDGE_Low_Slot1_T3/VN	1850.078	1850	Pass
EDGE_Low_Slot1_T4/VN	1850.081	1850	Pass
EDGE_Low_Slot1_T5/VN	1850.077	1850	Pass
EDGE_Low_Slot1_T6/VN	1850.081	1850	Pass
EDGE_Low_Slot1_T7/VN	1850.079	1850	Pass

Mode	Result (MHz)	Limit (MHz)	Verdict
EDGE_Low_Slot1_T8/VN	1850.075	1850	Pass
EDGE_Low_Slot1_TN/VH	1850.074	1850	Pass
EDGE_Low_Slot1_TN/VL	1850.075	1850	Pass
EDGE_High_Slot1_TN/VN	1909.926	1910	Pass
EDGE_High_Slot1_T1/VN	1909.924	1910	Pass
EDGE_High_Slot1_T2/VN	1909.926	1910	Pass
EDGE_High_Slot1_T3/VN	1909.925	1910	Pass
EDGE_High_Slot1_T4/VN	1909.921	1910	Pass
EDGE_High_Slot1_T5/VN	1909.927	1910	Pass
EDGE_High_Slot1_T6/VN	1909.923	1910	Pass
EDGE_High_Slot1_T7/VN	1909.924	1910	Pass
EDGE_High_Slot1_T8/VN	1909.924	1910	Pass
EDGE_High_Slot1_TN/VH	1909.925	1910	Pass
EDGE_High_Slot1_TN/VL	1909.927	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

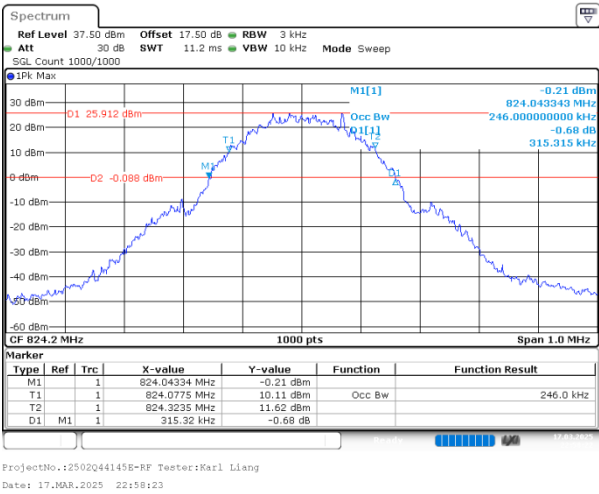
FCC Part 22H

GSM 850 , Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.246	0.315
GSM_Middle	0.243	0.311
GSM_High	0.246	0.316
EDGE_Low_Slot1	0.244	0.308
EDGE_Middle_Slot1	0.243	0.309
EDGE_High_Slot1	0.245	0.314

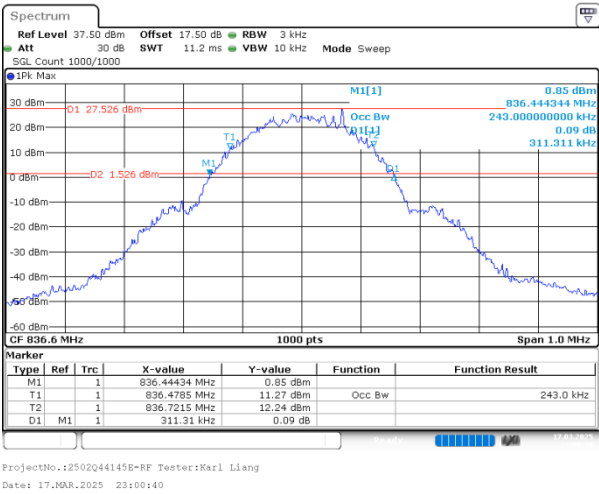
GSM 850 , Normal

GSM_Low



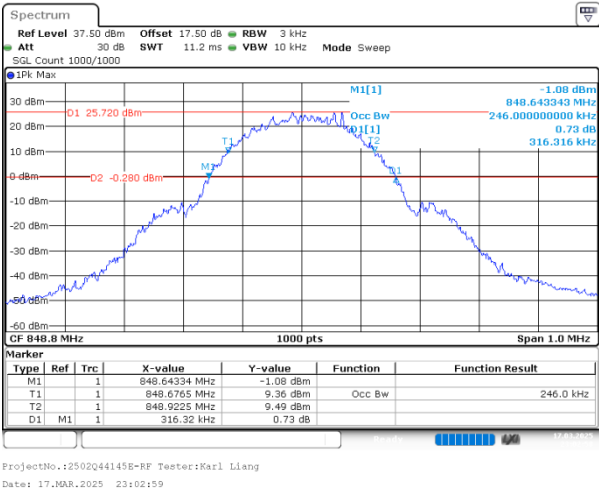
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
 Date: 17.MAR.2025 22:58:23

GSM_Middle



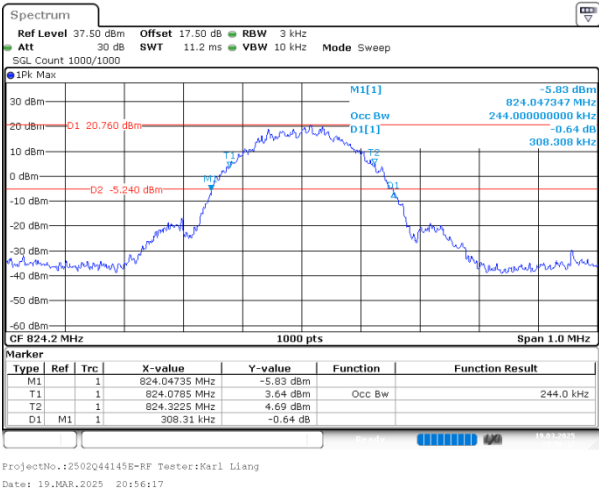
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
 Date: 17.MAR.2025 23:00:40

GSM_High



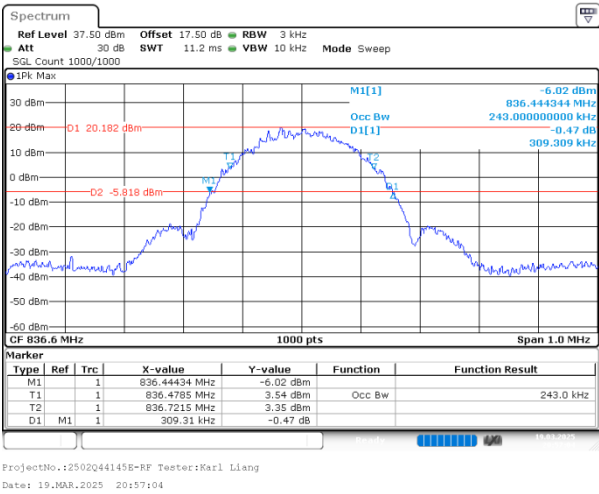
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
 Date: 17.MAR.2025 23:02:59

EDGE_Low_Slot1



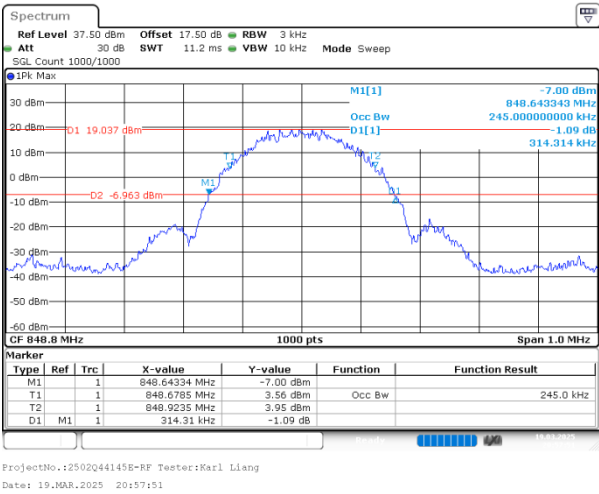
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
 Date: 19.MAR.2025 20:56:17

EDGE_Middle_Slot1



ProjectNo.:2502Q44145E-RF Tester:Karl Liang
 Date: 19.MAR.2025 20:57:04

EDGE_High_Slot1



ProjectNo.:2502Q44145E-RF Tester:Karl Liang
 Date: 19.MAR.2025 20:57:51

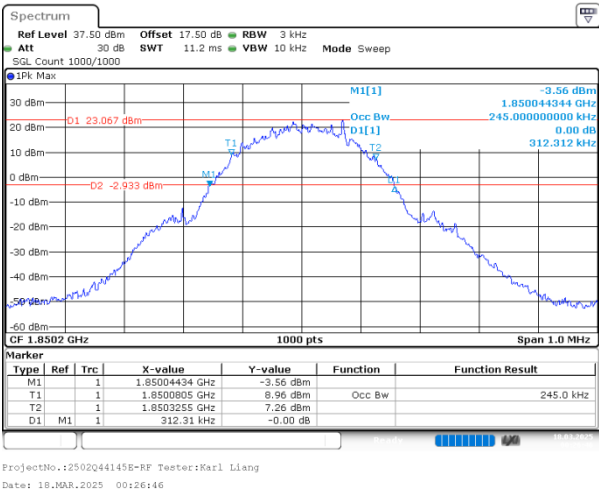
FCC Part 24E

GSM 1900 , Normal

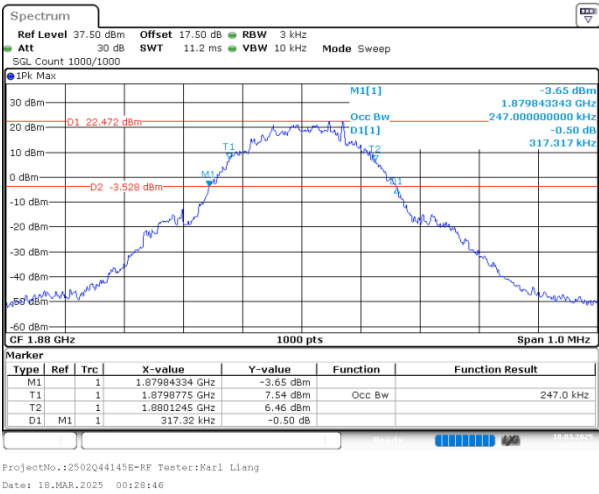
Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.245	0.312
GSM_Middle	0.247	0.317
GSM_High	0.245	0.312
EDGE_Low_Slot1	0.242	0.314
EDGE_Middle_Slot1	0.245	0.300
EDGE_High_Slot1	0.248	0.315

GSM 1900 , Normal

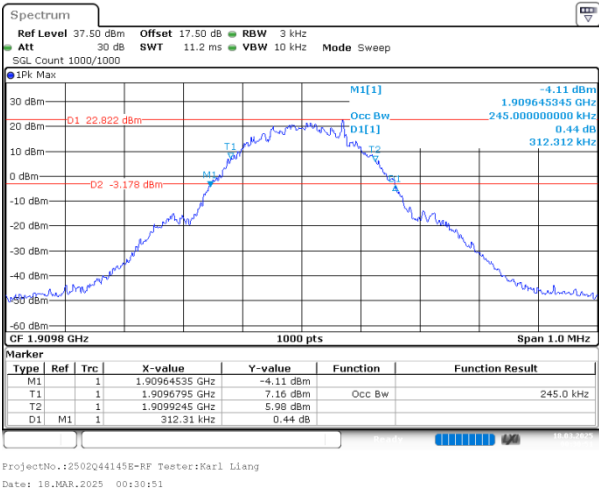
GSM_Low



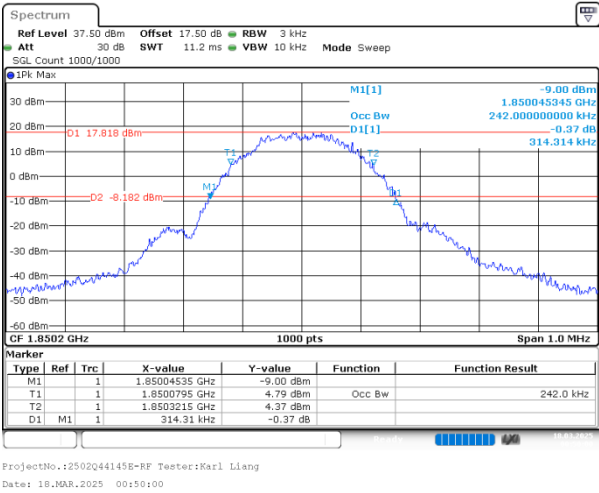
GSM_Middle



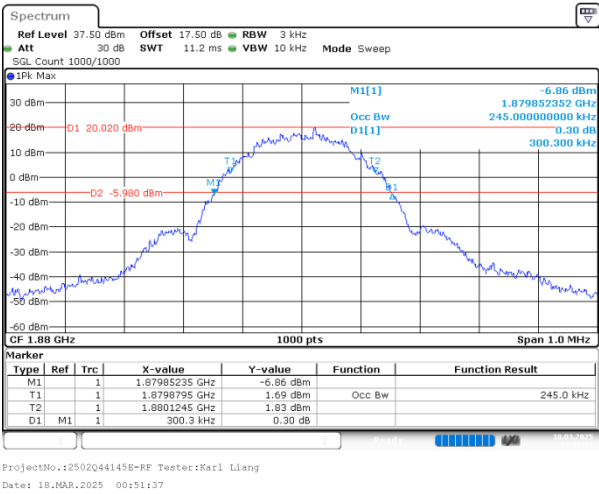
GSM_High



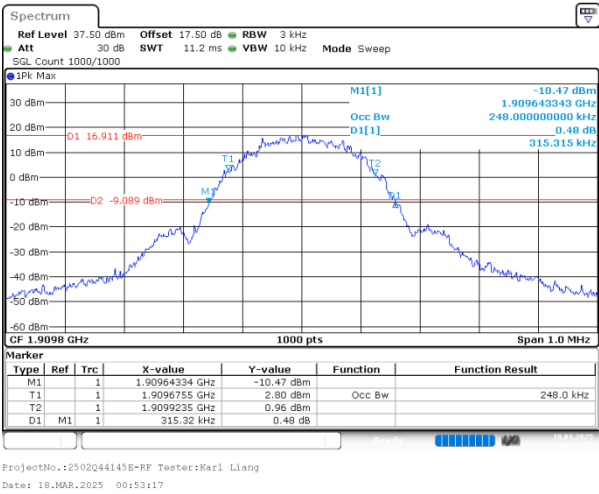
EDGE_Low_Slot1



EDGE_Middle_Slot1



EDGE_High_Slot1



RF Output Power

FCC Part 22H

GSM 850 , Normal

Mode	Average Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
GSM_Low	32.74	28.81	38.45	Pass
GSM_Middle	32.77	28.84	38.45	Pass
GSM_High	32.76	28.83	38.45	Pass
GPRS_Low_Slot1	32.79	28.86	38.45	Pass
GPRS_Low_Slot2	31.70	27.77	38.45	Pass
GPRS_Low_Slot3	29.71	25.78	38.45	Pass
GPRS_Low_Slot4	28.49	24.56	38.45	Pass
GPRS_Middle_Slot1	32.89	28.96	38.45	Pass
GPRS_Middle_Slot2	31.85	27.92	38.45	Pass
GPRS_Middle_Slot3	29.73	25.80	38.45	Pass
GPRS_Middle_Slot4	28.54	24.61	38.45	Pass
GPRS_High_Slot1	32.87	28.94	38.45	Pass
GPRS_High_Slot2	31.83	27.90	38.45	Pass
GPRS_High_Slot3	29.71	25.78	38.45	Pass
GPRS_High_Slot4	28.54	24.61	38.45	Pass
EDGE_Low_Slot1	26.99	23.06	38.45	Pass
EDGE_Low_Slot2	25.64	21.71	38.45	Pass
EDGE_Low_Slot3	23.32	19.39	38.45	Pass
EDGE_Low_Slot4	22.23	18.30	38.45	Pass
EDGE_Middle_Slot1	26.97	23.04	38.45	Pass
EDGE_Middle_Slot2	25.65	21.72	38.45	Pass
EDGE_Middle_Slot3	23.36	19.43	38.45	Pass
EDGE_Middle_Slot4	22.26	18.33	38.45	Pass
EDGE_High_Slot1	26.91	22.98	38.45	Pass
EDGE_High_Slot2	25.54	21.61	38.45	Pass
EDGE_High_Slot3	23.30	19.37	38.45	Pass
EDGE_High_Slot4	22.27	18.34	38.45	Pass

Note:

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

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

1.Antenna Gain = -1.68dBi;

2.Cable Loss = 0.1dB.

FCC Part 24E

GSM 1900 , Normal

Mode	Average Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
GSM_Low	29.35	30.28	33	Pass
GSM_Middle	29.02	29.95	33	Pass
GSM_High	28.92	29.85	33	Pass
GPRS_Low_Slot1	29.33	30.26	33	Pass
GPRS_Low_Slot2	28.27	29.20	33	Pass
GPRS_Low_Slot3	26.25	27.18	33	Pass
GPRS_Low_Slot4	25.02	25.95	33	Pass
GPRS_Middle_Slot1	29.14	30.07	33	Pass
GPRS_Middle_Slot2	27.99	28.92	33	Pass
GPRS_Middle_Slot3	25.92	26.85	33	Pass
GPRS_Middle_Slot4	24.69	25.62	33	Pass
GPRS_High_Slot1	29.06	29.99	33	Pass
GPRS_High_Slot2	27.86	28.79	33	Pass
GPRS_High_Slot3	25.77	26.70	33	Pass
GPRS_High_Slot4	24.51	25.44	33	Pass
EDGE_Low_Slot1	25.90	26.83	33	Pass
EDGE_Low_Slot2	24.80	25.73	33	Pass
EDGE_Low_Slot3	22.57	23.50	33	Pass
EDGE_Low_Slot4	21.50	22.43	33	Pass
EDGE_Middle_Slot1	25.50	26.43	33	Pass
EDGE_Middle_Slot2	24.36	25.29	33	Pass
EDGE_Middle_Slot3	22.18	23.11	33	Pass
EDGE_Middle_Slot4	21.10	22.03	33	Pass
EDGE_High_Slot1	25.02	25.95	33	Pass
EDGE_High_Slot2	23.90	24.83	33	Pass
EDGE_High_Slot3	21.71	22.64	33	Pass
EDGE_High_Slot4	20.59	21.52	33	Pass

Note:

$EIRP = \text{Average Conducted Power(dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss(dB)}$

1.Antenna Gain = 1.13dBi;

2.Cable Loss = 0.2dB.

Peak-to-average Ratio(PAR)

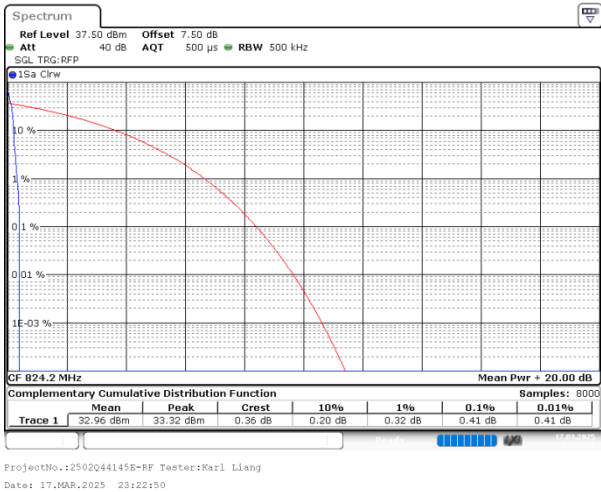
FCC Part 22H

GSM 850 , Normal

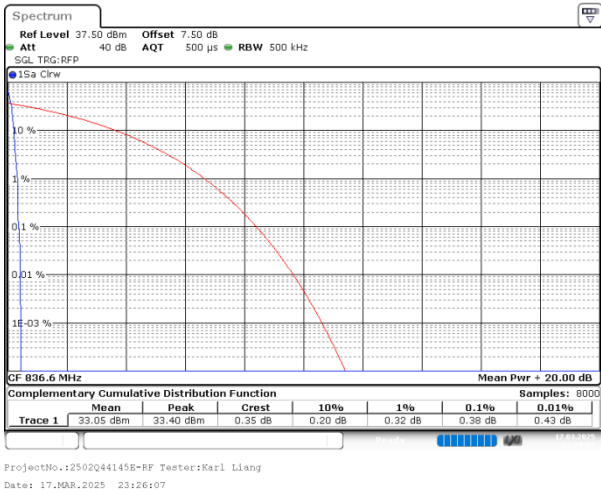
Mode	Result (dB)	Limit (dB)
GSM_Low	0.41	13
GSM_Middle	0.38	13
GSM_High	0.38	13

GSM 850 , Normal

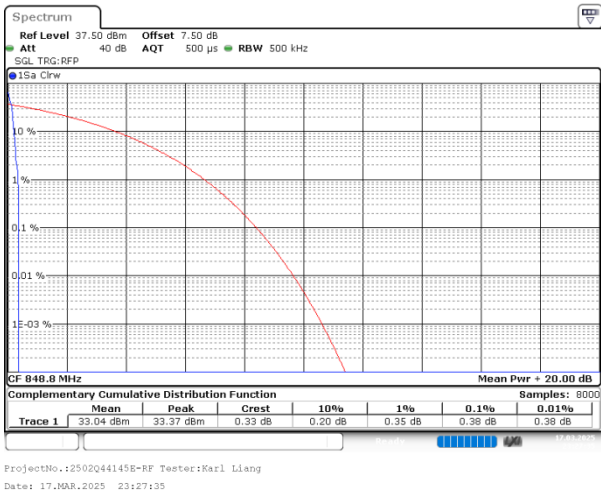
GSM_Low



GSM_Middle



GSM_High



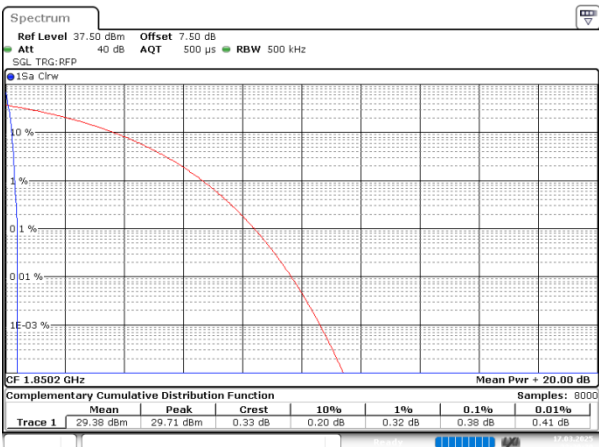
FCC Part 24E

GSM 1900 , Normal

Mode	Result (dB)	Limit (dB)
GSM_Low	0.38	13
GSM_Middle	0.35	13
GSM_High	0.38	13

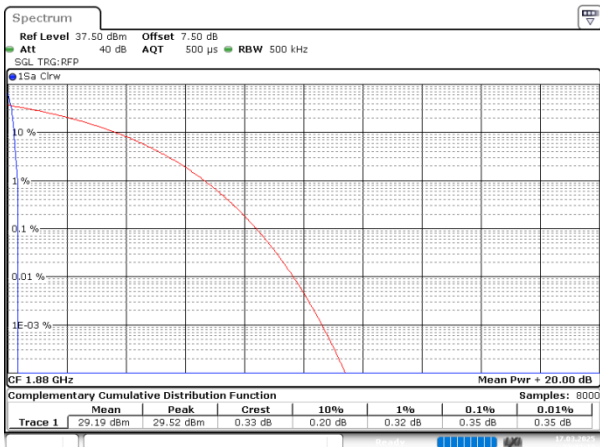
GSM 1900 , Normal

GSM_Low



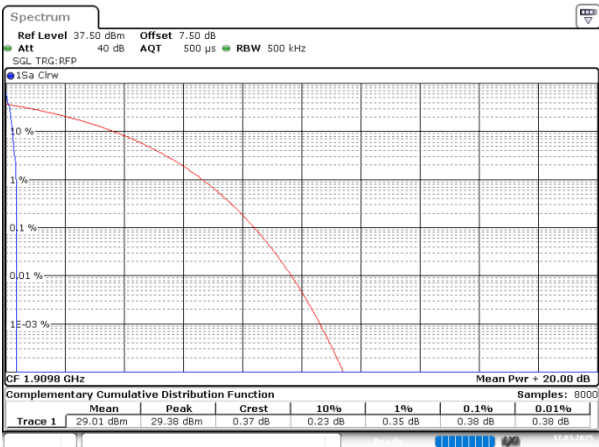
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
Date: 17.MAR.2025 23:30:19

GSM_Middle



ProjectNo.:2502Q44145E-RF Tester:Karl Liang
Date: 17.MAR.2025 23:32:10

GSM_High



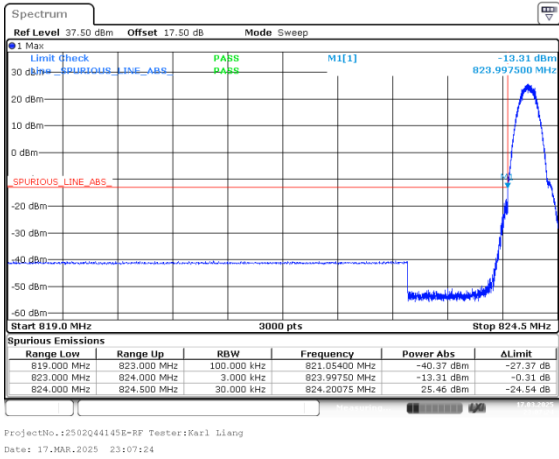
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
Date: 17.MAR.2025 23:33:41

Out of band emission,Band Edge

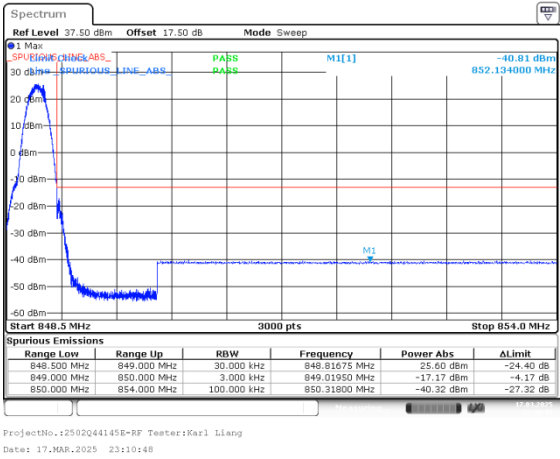
FCC Part 22H

GSM 850 , Normal

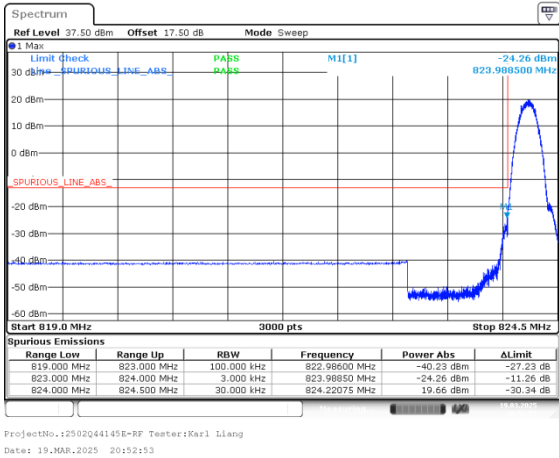
GSM_Low



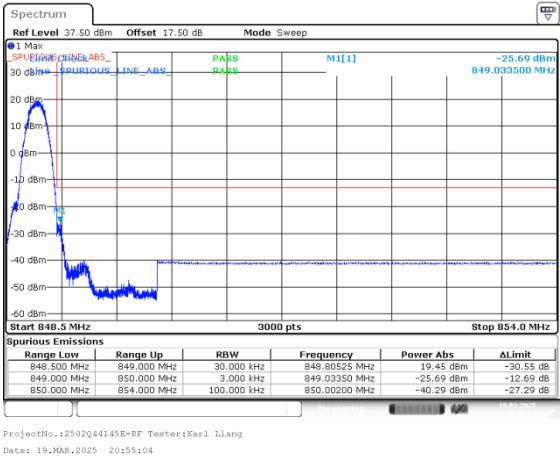
GSM_High



EDGE_Low_Slot1



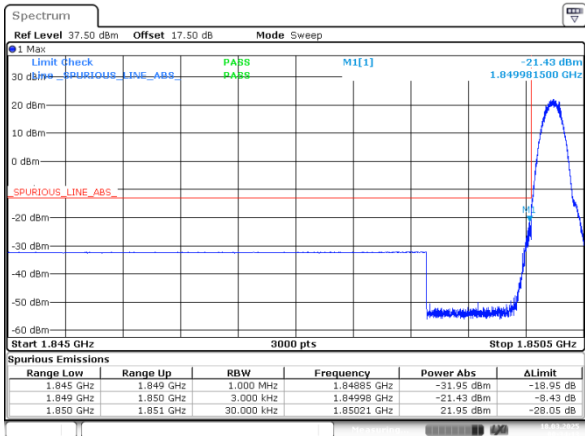
EDGE_High_Slot1



FCC Part 24E

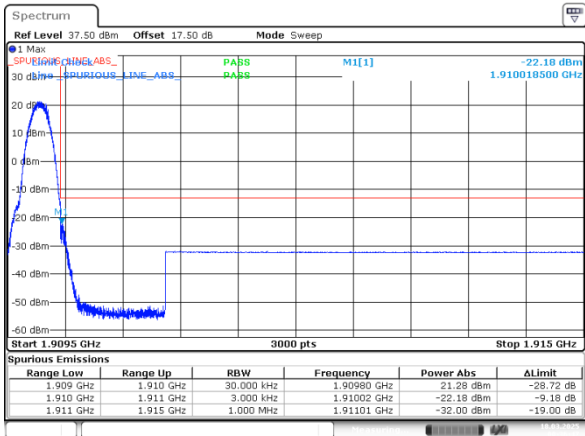
GSM 1900 , Normal

GSM_Low



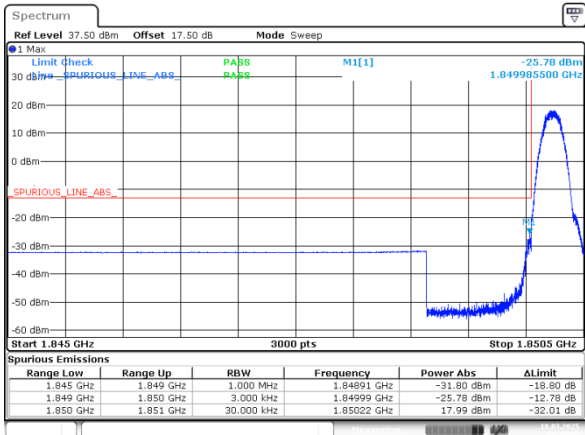
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
Date: 18.MAR.2025 00:34:13

GSM_High



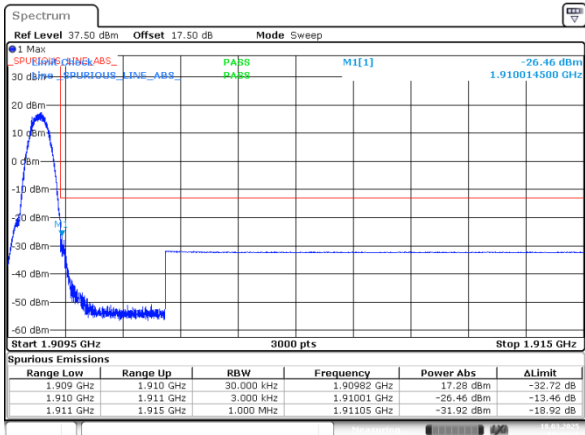
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
Date: 18.MAR.2025 00:36:47

EDGE_Low_Slot1



ProjectNo.:2502Q44145E-RF Tester:Karl Liang
Date: 18.MAR.2025 00:47:55

EDGE_High_Slot1



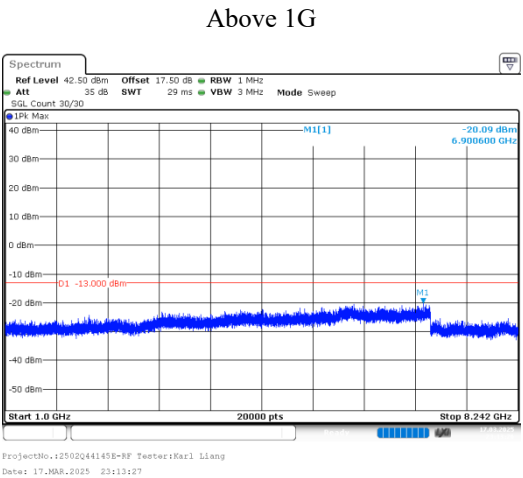
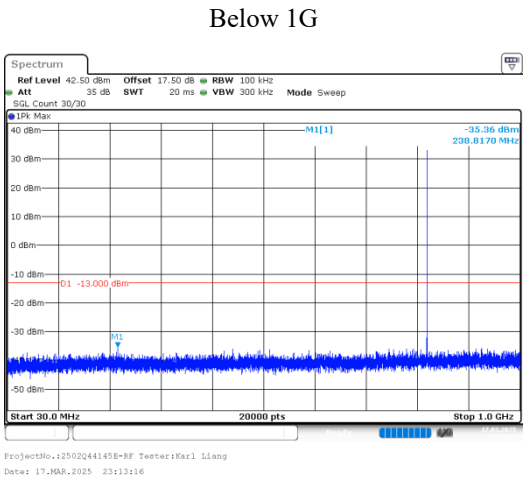
ProjectNo.:2502Q44145E-RF Tester:Karl Liang
Date: 18.MAR.2025 00:44:21

Spurious Emissions at Antenna Terminal

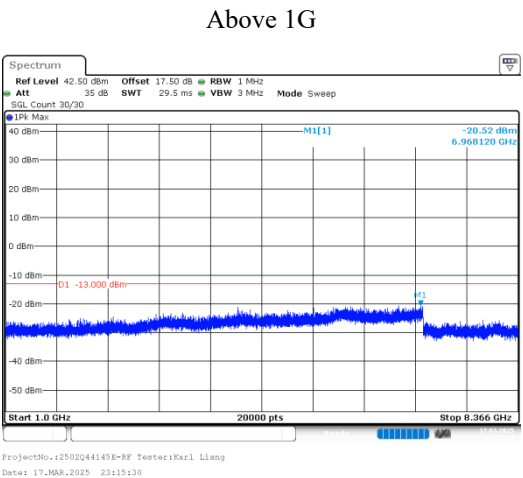
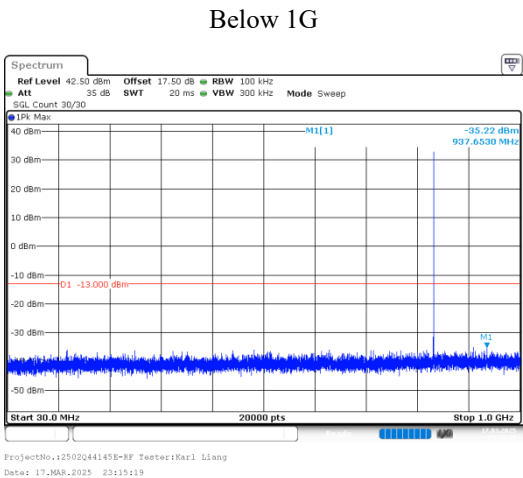
FCC Part 22H

GSM 850 , Normal

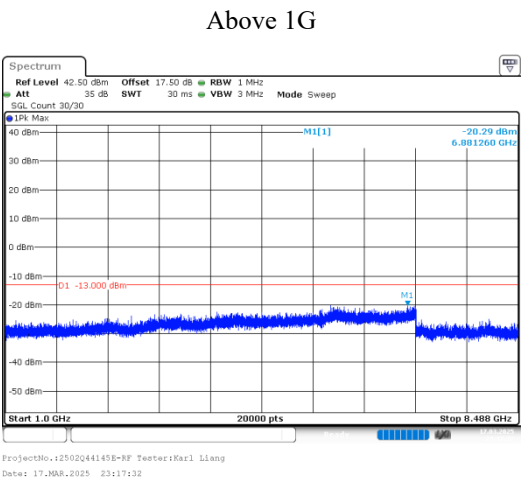
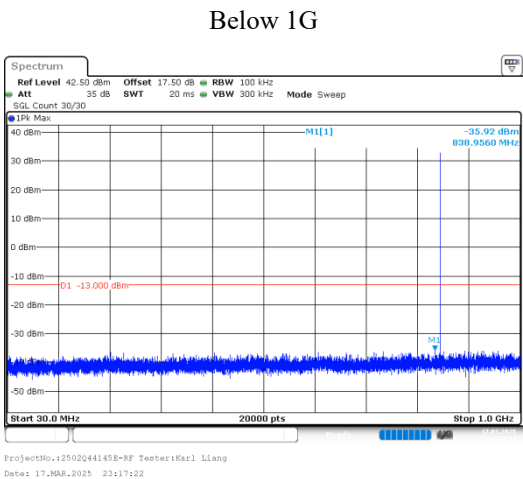
GSM_Low



GSM_Middle



GSM_High

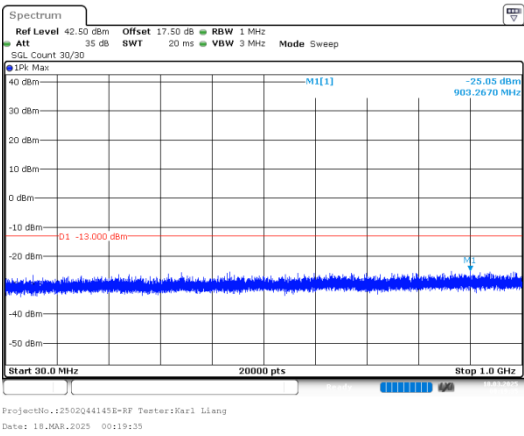


FCC Part 24E

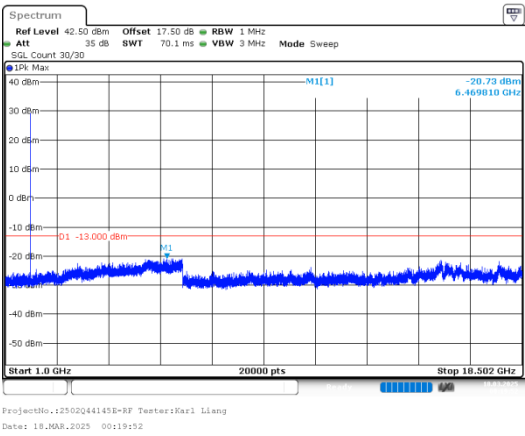
GSM 1900 , Normal

GSM_Low

Below 1G

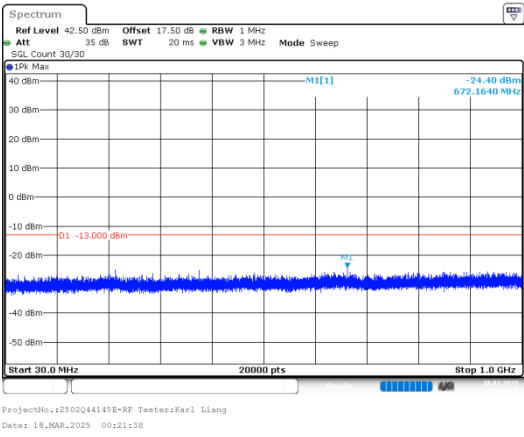


Above 1G

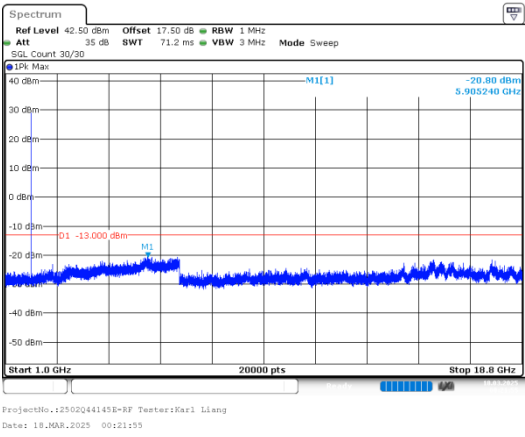


GSM_Middle

Below 1G

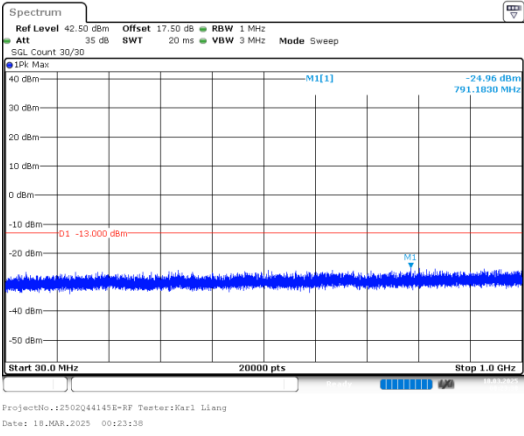


Above 1G

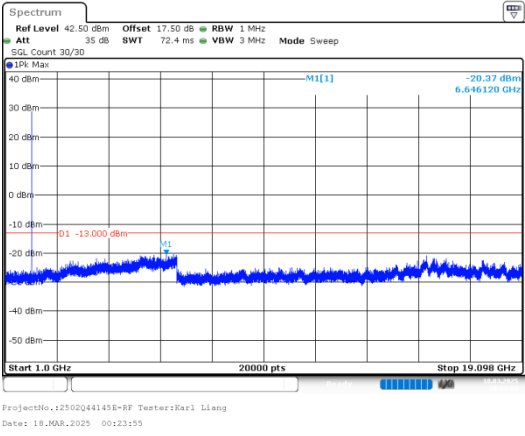


GSM_High

Below 1G



Above 1G



**** END ****