

Appendix A

Test Information:

Serial No.:	2YMK-1	Test Date:	2025/03/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.7	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101.1
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Test Equipment List and Details:

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

GSM 850

Mode	Test Channel (MHz)	Frequency Error		Limit (ppm)	Verdict
		(Hz)	(ppm)		
GPRS_Middle_Slot1_TN/VN	836.6	9.9	0.0118	±2.5	Pass
GPRS_Middle_Slot1_T1/VN	836.6	9.3	0.0111	±2.5	Pass
GPRS_Middle_Slot1_T2/VN	836.6	12.0	0.0144	±2.5	Pass
GPRS_Middle_Slot1_T3/VN	836.6	4.2	0.0050	±2.5	Pass
GPRS_Middle_Slot1_T4/VN	836.6	8.6	0.0102	±2.5	Pass
GPRS_Middle_Slot1_T5/VN	836.6	5.0	0.0060	±2.5	Pass
GPRS_Middle_Slot1_T6/VN	836.6	8.0	0.0095	±2.5	Pass
GPRS_Middle_Slot1_T7/VN	836.6	6.4	0.0077	±2.5	Pass
GPRS_Middle_Slot1_T8/VN	836.6	8.7	0.0104	±2.5	Pass
GPRS_Middle_Slot1_TN/VH	836.6	5.2	0.0062	±2.5	Pass
GPRS_Middle_Slot1_TN/VL	836.6	9.4	0.0112	±2.5	Pass
EDGE_Middle_Slot1_TN/VN	836.6	7.4	0.0088	±2.5	Pass
EDGE_Middle_Slot1_T1/VN	836.6	7.3	0.0087	±2.5	Pass
EDGE_Middle_Slot1_T2/VN	836.6	9.6	0.0115	±2.5	Pass
EDGE_Middle_Slot1_T3/VN	836.6	8.8	0.0105	±2.5	Pass
EDGE_Middle_Slot1_T4/VN	836.6	8.5	0.0101	±2.5	Pass
EDGE_Middle_Slot1_T5/VN	836.6	10.7	0.0128	±2.5	Pass
EDGE_Middle_Slot1_T6/VN	836.6	11.4	0.0137	±2.5	Pass
EDGE_Middle_Slot1_T7/VN	836.6	7.7	0.0092	±2.5	Pass
EDGE_Middle_Slot1_T8/VN	836.6	10.0	0.0120	±2.5	Pass
EDGE_Middle_Slot1_TN/VH	836.6	9.9	0.0119	±2.5	Pass
EDGE_Middle_Slot1_TN/VL	836.6	10.2	0.0122	±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
GPRS_Low_Slot1_TN/VN	1850.081	1850	Pass
GPRS_Low_Slot1_T1/VN	1850.077	1850	Pass
GPRS_Low_Slot1_T2/VN	1850.083	1850	Pass
GPRS_Low_Slot1_T3/VN	1850.077	1850	Pass
GPRS_Low_Slot1_T4/VN	1850.082	1850	Pass
GPRS_Low_Slot1_T5/VN	1850.081	1850	Pass
GPRS_Low_Slot1_T6/VN	1850.083	1850	Pass
GPRS_Low_Slot1_T7/VN	1850.080	1850	Pass
GPRS_Low_Slot1_T8/VN	1850.082	1850	Pass
GPRS_Low_Slot1_TN/VH	1850.082	1850	Pass
GPRS_Low_Slot1_TN/VL	1850.080	1850	Pass
GPRS_High_Slot1_TN/VN	1909.923	1910	Pass
GPRS_High_Slot1_T1/VN	1909.925	1910	Pass
GPRS_High_Slot1_T2/VN	1909.925	1910	Pass
GPRS_High_Slot1_T3/VN	1909.925	1910	Pass
GPRS_High_Slot1_T4/VN	1909.923	1910	Pass
GPRS_High_Slot1_T5/VN	1909.923	1910	Pass
GPRS_High_Slot1_T6/VN	1909.922	1910	Pass
GPRS_High_Slot1_T7/VN	1909.924	1910	Pass
GPRS_High_Slot1_T8/VN	1909.923	1910	Pass
GPRS_High_Slot1_TN/VH	1909.926	1910	Pass
GPRS_High_Slot1_TN/VL	1909.923	1910	Pass
EDGE_Low_Slot1_TN/VN	1850.079	1850	Pass
EDGE_Low_Slot1_T1/VN	1850.078	1850	Pass
EDGE_Low_Slot1_T2/VN	1850.077	1850	Pass
EDGE_Low_Slot1_T3/VN	1850.078	1850	Pass
EDGE_Low_Slot1_T4/VN	1850.078	1850	Pass
EDGE_Low_Slot1_T5/VN	1850.076	1850	Pass
EDGE_Low_Slot1_T6/VN	1850.079	1850	Pass
EDGE_Low_Slot1_T7/VN	1850.079	1850	Pass

Mode	Result (MHz)	Limit (MHz)	Verdict
EDGE_Low_Slot1_T8/VN	1850.080	1850	Pass
EDGE_Low_Slot1_TN/VH	1850.078	1850	Pass
EDGE_Low_Slot1_TN/VL	1850.075	1850	Pass
EDGE_High_Slot1_TN/VN	1909.923	1910	Pass
EDGE_High_Slot1_T1/VN	1909.926	1910	Pass
EDGE_High_Slot1_T2/VN	1909.924	1910	Pass
EDGE_High_Slot1_T3/VN	1909.923	1910	Pass
EDGE_High_Slot1_T4/VN	1909.924	1910	Pass
EDGE_High_Slot1_T5/VN	1909.929	1910	Pass
EDGE_High_Slot1_T6/VN	1909.923	1910	Pass
EDGE_High_Slot1_T7/VN	1909.922	1910	Pass
EDGE_High_Slot1_T8/VN	1909.928	1910	Pass
EDGE_High_Slot1_TN/VH	1909.926	1910	Pass
EDGE_High_Slot1_TN/VL	1909.924	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

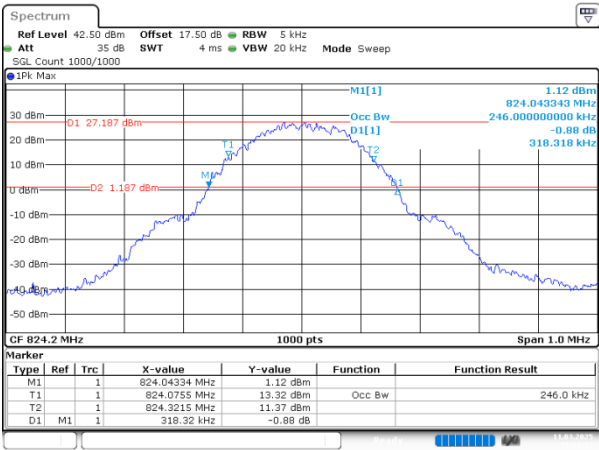
FCC Part 22H

GSM 850, Normal

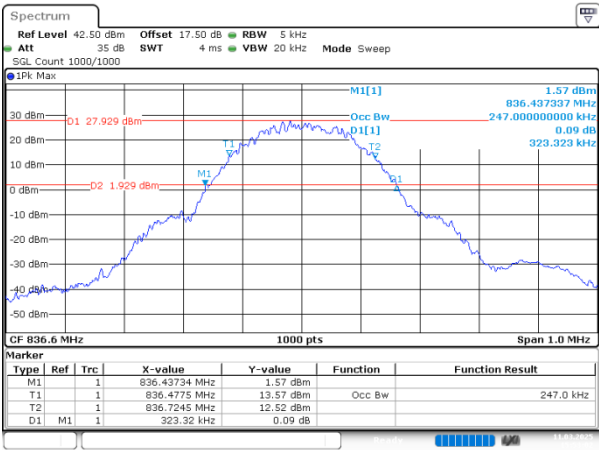
Mode	99% OBW (MHz)	26dB BW (MHz)
GPRS_Low_Slot1	0.246	0.318
GPRS_Middle_Slot1	0.247	0.323
GPRS_High_Slot1	0.245	0.316
EDGE_Low_Slot1	0.253	0.315
EDGE_Middle_Slot1	0.252	0.318
EDGE_High_Slot1	0.246	0.311

GSM 850, Normal

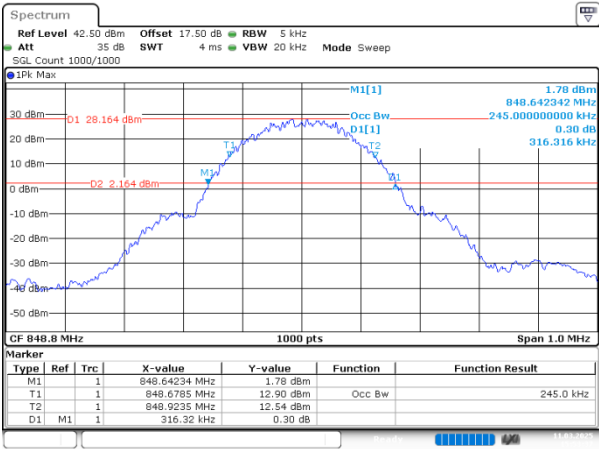
GPRS_Low_Slot1



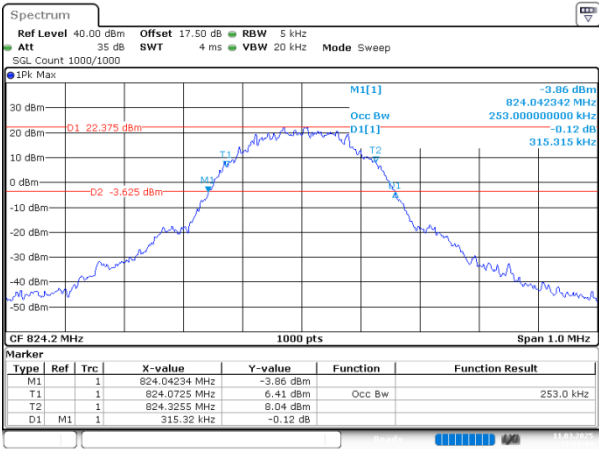
GPRS_Middle_Slot1



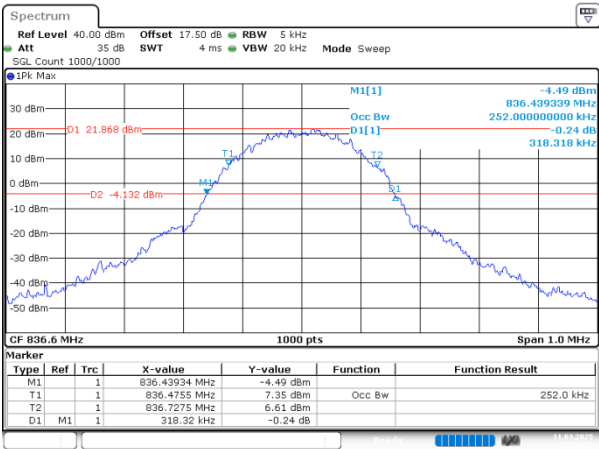
GPRS_High_Slot1



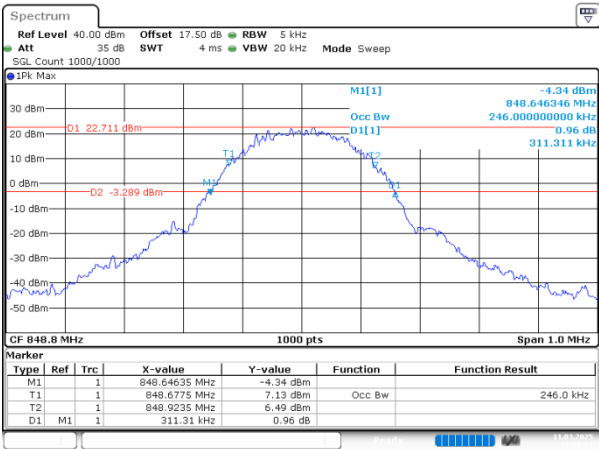
EDGE_Low_Slot1



EDGE_Middle_Slot1



EDGE_High_Slot1



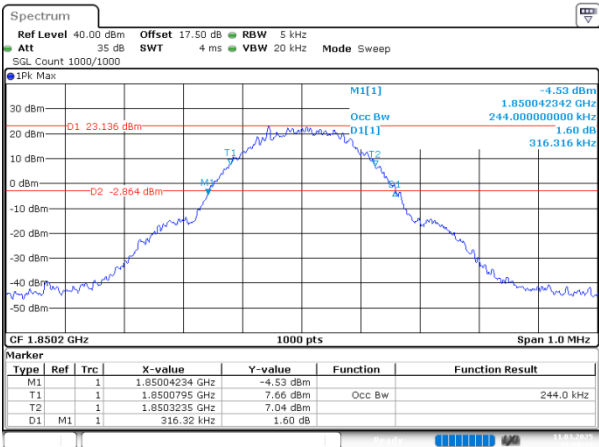
FCC Part 24E

GSM 1900, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
GPRS_Low_Slot1	0.244	0.316
GPRS_Middle_Slot1	0.244	0.319
GPRS_High_Slot1	0.246	0.320
EDGE_Low_Slot1	0.250	0.323
EDGE_Middle_Slot1	0.256	0.327
EDGE_High_Slot1	0.246	0.321

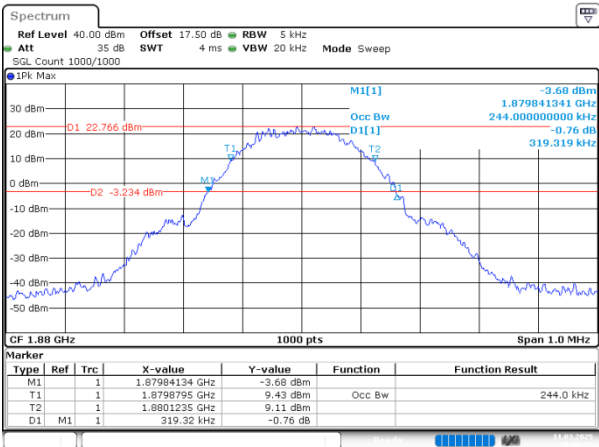
GSM 1900, Normal

GPRS_Low_Slot1



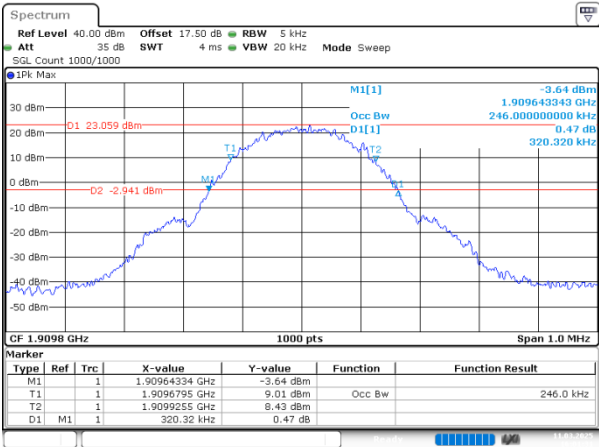
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GPRS_Middle_Slot1



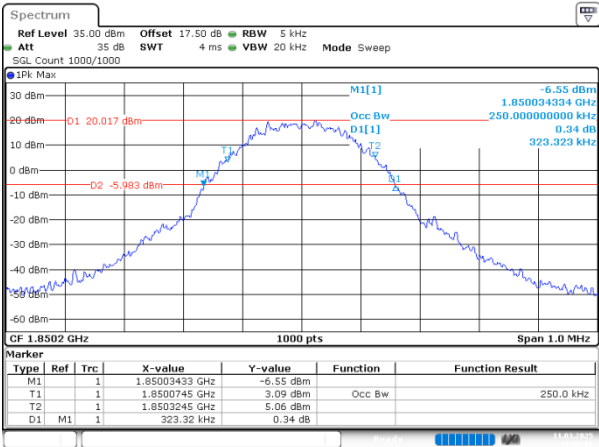
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GPRS_High_Slot1



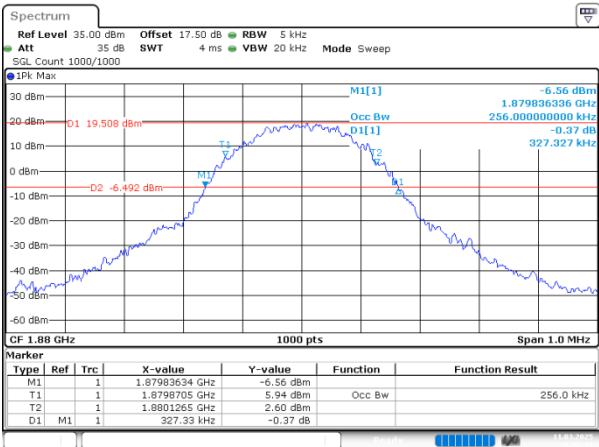
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EDGE_Low_Slot1



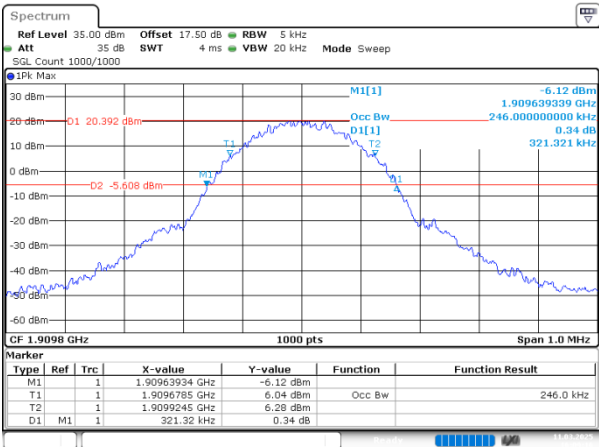
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EDGE_Middle_Slot1



ProjectNo.:2502Q36948E-RF Tester:Karl Liang
Date: 11.MAR.2025 16:08:41

EDGE_High_Slot1



ProjectNo.:2502Q36948E-RF Tester:Karl Liang
Date: 11.MAR.2025 16:09:16

RF Output Power

FCC Part 22H

GSM 850, Normal

Mode	Average Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
GPRS_Low_Slot1	32.40	31.61	38.45	Pass
GPRS_Low_Slot2	31.57	30.78	38.45	Pass
GPRS_Low_Slot3	29.79	29.00	38.45	Pass
GPRS_Low_Slot4	28.71	27.92	38.45	Pass
GPRS_Middle_Slot1	32.37	31.58	38.45	Pass
GPRS_Middle_Slot2	31.57	30.78	38.45	Pass
GPRS_Middle_Slot3	29.79	29.00	38.45	Pass
GPRS_Middle_Slot4	28.71	27.92	38.45	Pass
GPRS_High_Slot1	32.37	31.58	38.45	Pass
GPRS_High_Slot2	31.58	30.79	38.45	Pass
GPRS_High_Slot3	29.79	29.00	38.45	Pass
GPRS_High_Slot4	28.71	27.92	38.45	Pass
EDGE_Low_Slot1	25.82	25.03	38.45	Pass
EDGE_Low_Slot2	24.74	23.95	38.45	Pass
EDGE_Low_Slot3	22.60	21.81	38.45	Pass
EDGE_Low_Slot4	21.39	20.60	38.45	Pass
EDGE_Middle_Slot1	25.73	24.94	38.45	Pass
EDGE_Middle_Slot2	24.74	23.95	38.45	Pass
EDGE_Middle_Slot3	22.53	21.74	38.45	Pass
EDGE_Middle_Slot4	21.38	20.59	38.45	Pass
EDGE_High_Slot1	25.57	24.78	38.45	Pass
EDGE_High_Slot2	24.60	23.81	38.45	Pass
EDGE_High_Slot3	22.45	21.66	38.45	Pass
EDGE_High_Slot4	21.24	20.45	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 = 1.36dBi;

2.Cable Loss = 0dB.

FCC Part 24E

GSM 1900, Normal

Mode	Average Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
GPRS_Low_Slot1	28.95	30.83	33	Pass
GPRS_Low_Slot2	28.04	29.92	33	Pass
GPRS_Low_Slot3	26.22	28.10	33	Pass
GPRS_Low_Slot4	25.07	26.95	33	Pass
GPRS_Middle_Slot1	29.03	30.91	33	Pass
GPRS_Middle_Slot2	28.15	30.03	33	Pass
GPRS_Middle_Slot3	26.39	28.27	33	Pass
GPRS_Middle_Slot4	25.30	27.18	33	Pass
GPRS_High_Slot1	28.93	30.81	33	Pass
GPRS_High_Slot2	28.08	29.96	33	Pass
GPRS_High_Slot3	26.35	28.23	33	Pass
GPRS_High_Slot4	25.29	27.17	33	Pass
EDGE_Low_Slot1	24.40	26.28	33	Pass
EDGE_Low_Slot2	23.28	25.16	33	Pass
EDGE_Low_Slot3	21.16	23.04	33	Pass
EDGE_Low_Slot4	20.00	21.88	33	Pass
EDGE_Middle_Slot1	24.29	26.17	33	Pass
EDGE_Middle_Slot2	23.23	25.11	33	Pass
EDGE_Middle_Slot3	21.07	22.95	33	Pass
EDGE_Middle_Slot4	19.92	21.80	33	Pass
EDGE_High_Slot1	24.37	26.25	33	Pass
EDGE_High_Slot2	23.16	25.04	33	Pass
EDGE_High_Slot3	21.08	22.96	33	Pass
EDGE_High_Slot4	19.95	21.83	33	Pass

Note:

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

1.Antenna Gain = 1.88dBi;

2.Cable Loss = 0dB.

Peak-to-average Ratio(PAR)

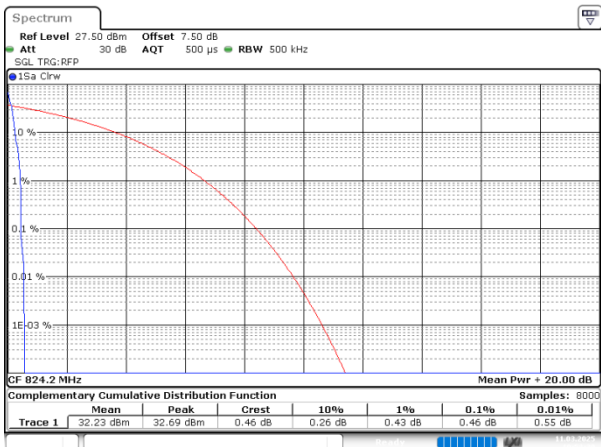
FCC Part 22H

GSM 850, Normal

Mode	Result (dB)	Limit (dB)
GPRS_Low_Slot1	0.46	13
GPRS_Middle_Slot1	0.46	13
GPRS_High_Slot1	0.46	13

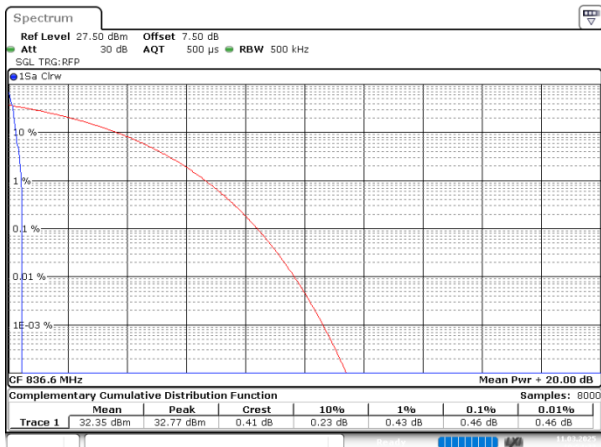
GSM 850, Normal

GPRS_Low_Slot1



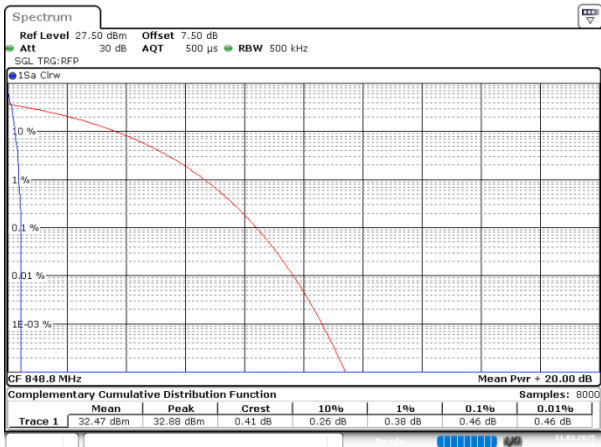
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Date: 11.MAR.2025 19:53:39

GPRS_Middle_Slot1



ProjectNo.:2502Q36948E-RF Tester:Karl Liang
Date: 11.MAR.2025 19:54:24

GPRS_High_Slot1



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Date: 11.MAR.2025 19:55:16

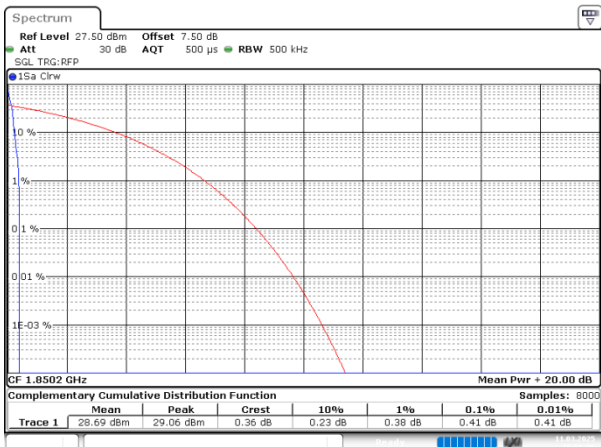
FCC Part 24E

GSM 1900, Normal

Mode	Result (dB)	Limit (dB)
GPRS_Low_Slot1	0.41	13
GPRS_Middle_Slot1	0.38	13
GPRS_High_Slot1	0.41	13

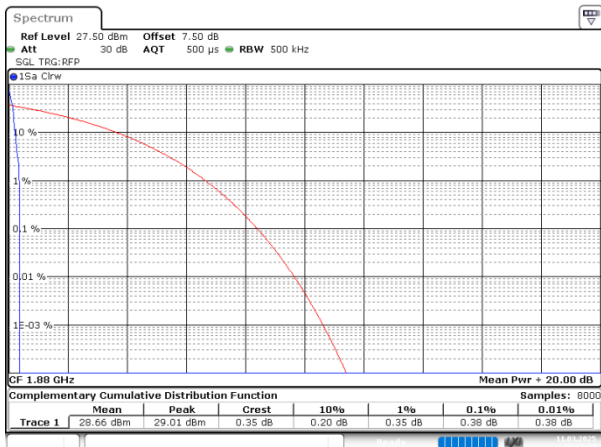
GSM 1900, Normal

GPRS_Low_Slot1



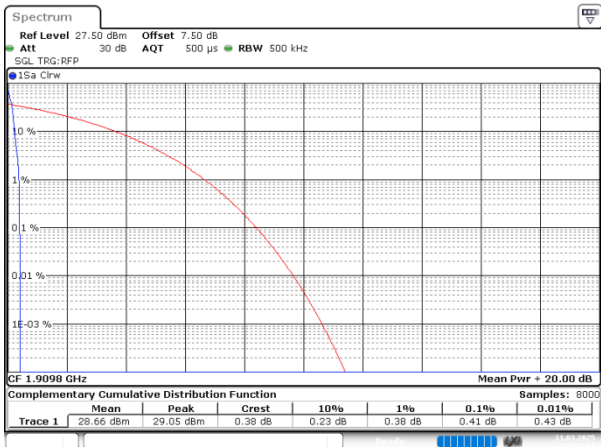
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GPRS_Middle_Slot1



ProjectNo.:2502Q36948E-RF Tester:Karl Liang
Date: 11.MAR.2025 19:57:25

GPRS_High_Slot1



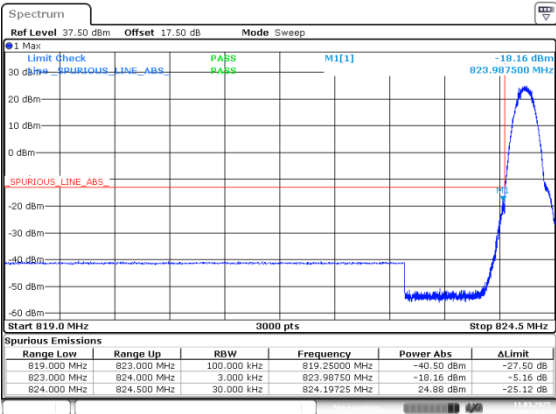
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Date: 11.MAR.2025 19:58:12

Out of band emission,Band Edge

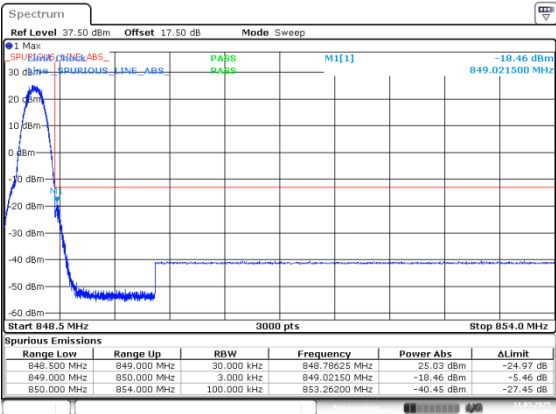
FCC Part 22H

GSM 850, Normal

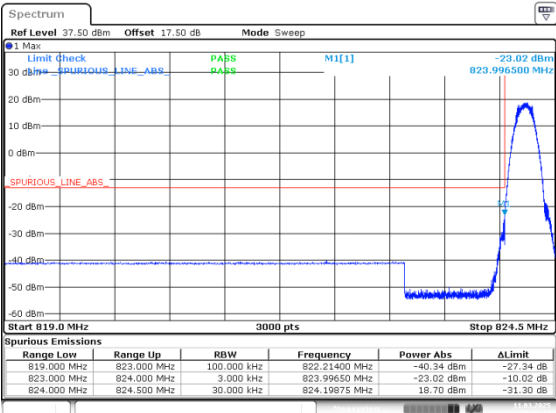
GPRS_Low_Slot1



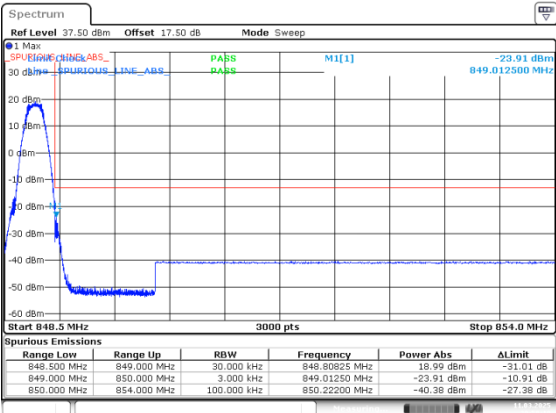
GPRS_High_Slot1



EDGE_Low_Slot1



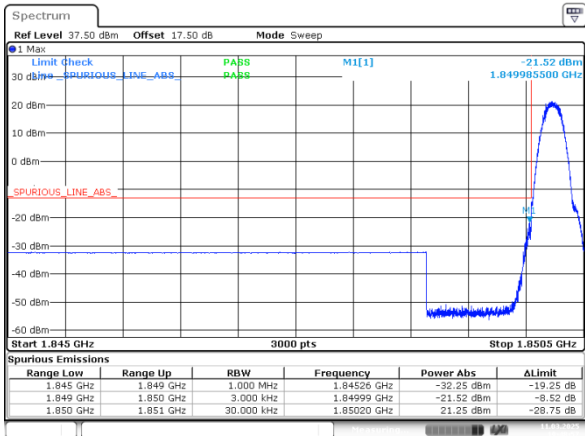
EDGE_High_Slot1



FCC Part 24E

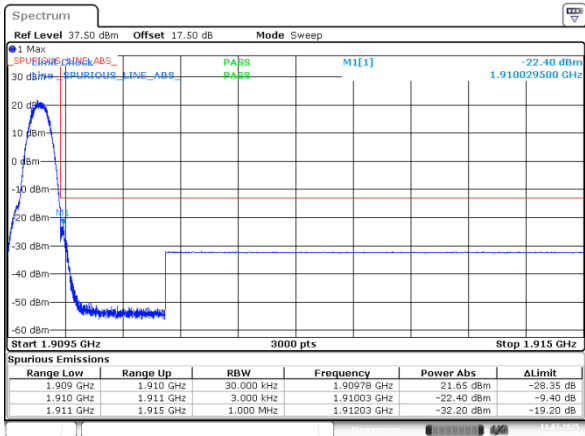
GSM 1900, Normal

GPRS_Low_Slot1



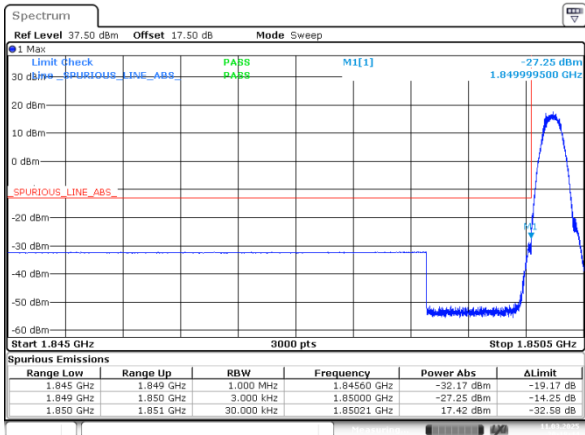
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GPRS_High_Slot1



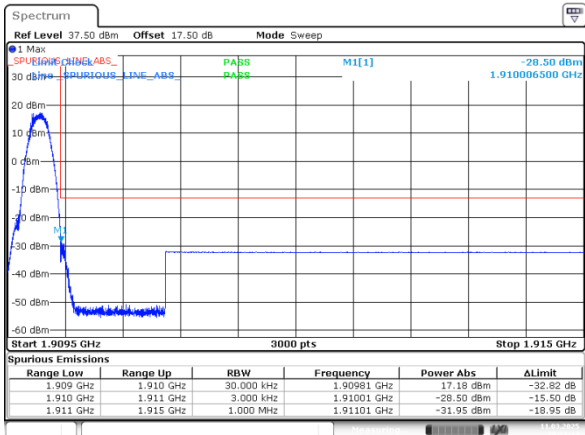
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EDGE_Low_Slot1



ProjectNo.:2502Q36948E-RF Tester:Karl Liang
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EDGE_High_Slot1



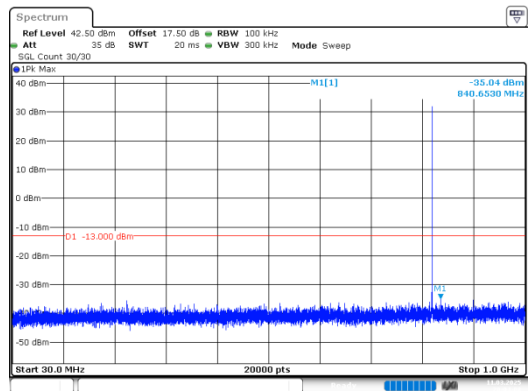
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Spurious Emissions at Antenna Terminal

FCC Part 22H
GSM 850, Normal

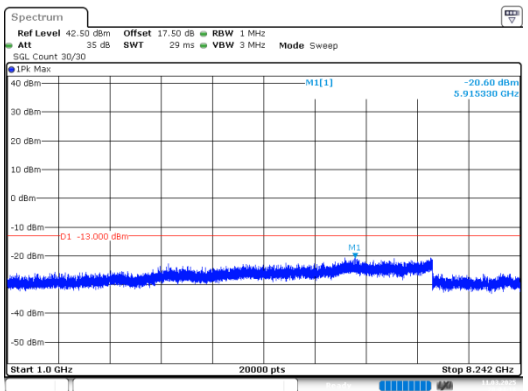
GPRS_Low_Slot1

Below 1G



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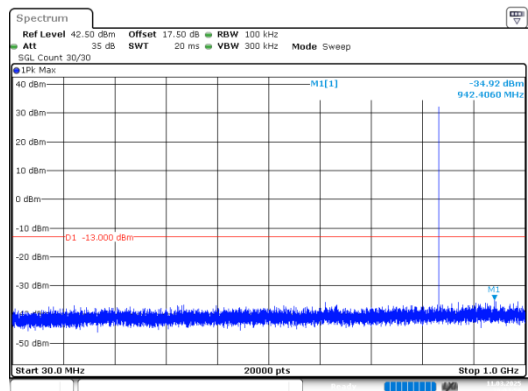
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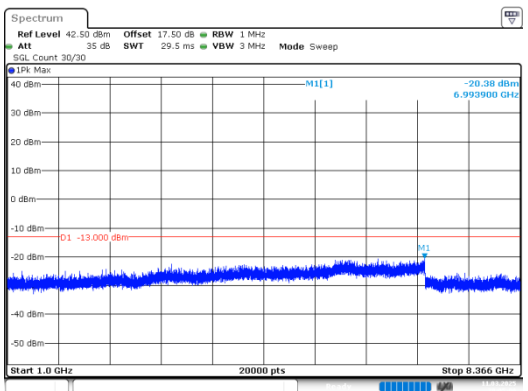
GPRS_Middle_Slot1

Below 1G



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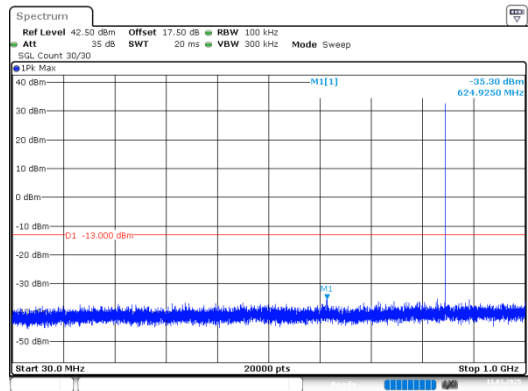
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Date: 11.MAR.2025 20:05:01

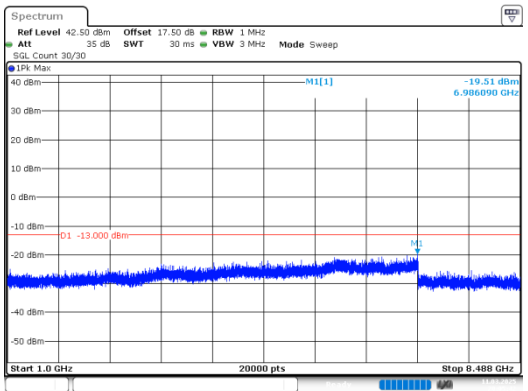
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ProjectNo.:2502Q36948E-RF Tester:Karl Liang
Date: 11.MAR.2025 20:05:33

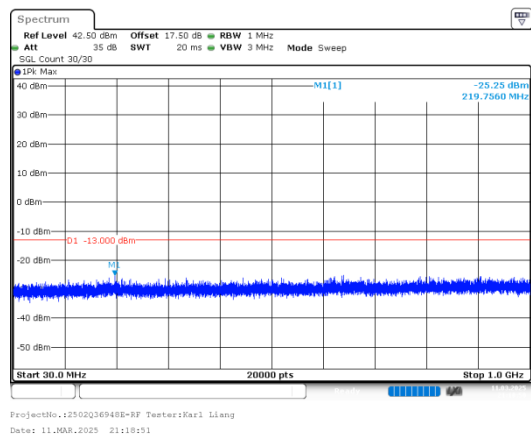
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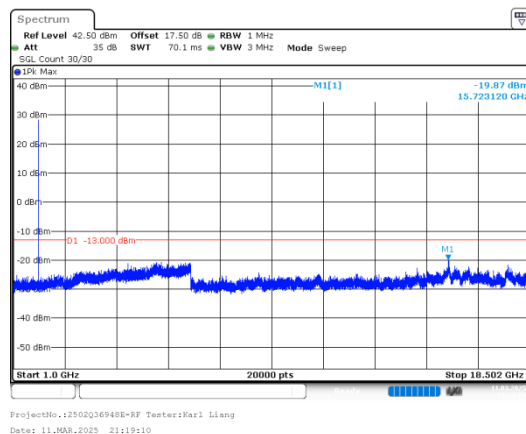
ProjectNo.:2502Q36948E-RF Tester:Karl Liang
Date: 11.MAR.2025 20:05:42

GSM 1900, Normal

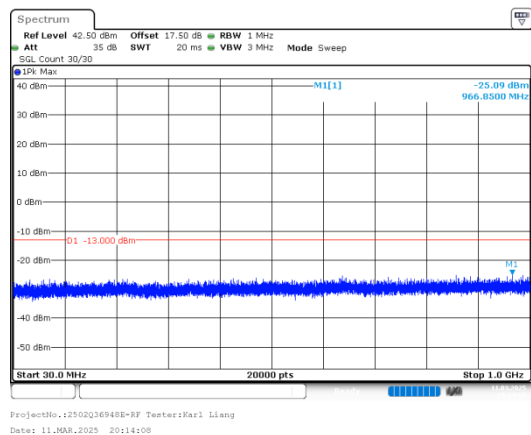
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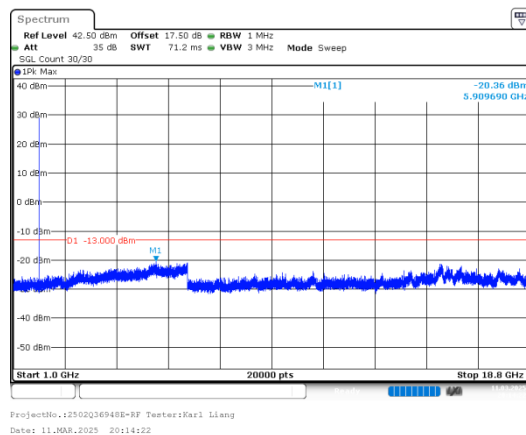
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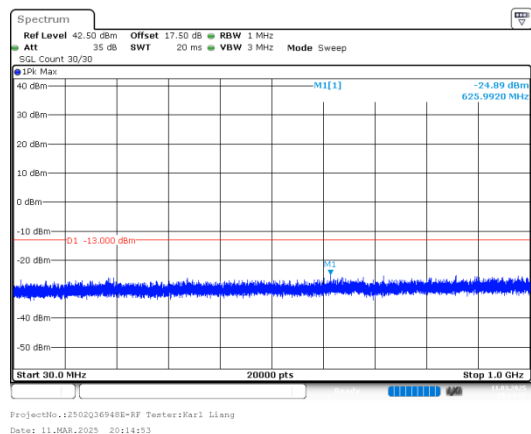
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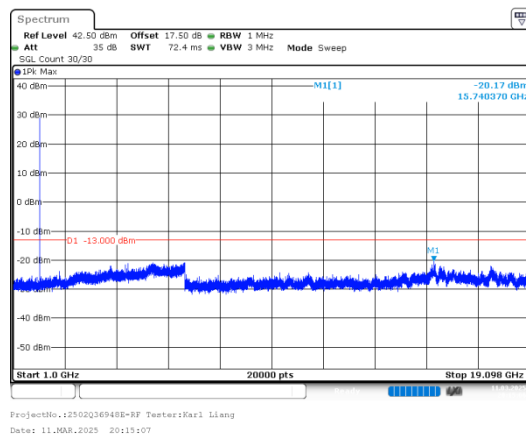
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