

Appendix A

Test Information:

Serial No.:	2Z9G-7	Test Date:	2025/04/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.1	Relative Humidity: (%)	41	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	Coaxial Cable	C-SJSJ-50	C-0060-02	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	8.5	0.0101	±2.5	Pass
GSM_Middle_T1/VN	836.6	4.5	0.0053	±2.5	Pass
GSM_Middle_T2/VN	836.6	3.0	0.0036	±2.5	Pass
GSM_Middle_T3/VN	836.6	3.2	0.0038	±2.5	Pass
GSM_Middle_T4/VN	836.6	3.5	0.0042	±2.5	Pass
GSM_Middle_T5/VN	836.6	0.9	0.0011	±2.5	Pass
GSM_Middle_T6/VN	836.6	2.7	0.0033	±2.5	Pass
GSM_Middle_T7/VN	836.6	0.7	0.0008	±2.5	Pass
GSM_Middle_T8/VN	836.6	3.0	0.0036	±2.5	Pass
GSM_Middle_TN/VH	836.6	5.8	0.0069	±2.5	Pass
GSM_Middle_TN/VL	836.6	9.2	0.0110	±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	1850.083	1850	Pass
GSM_Low_T1/VN	1850.082	1850	Pass
GSM_Low_T2/VN	1850.079	1850	Pass
GSM_Low_T3/VN	1850.078	1850	Pass
GSM_Low_T4/VN	1850.083	1850	Pass
GSM_Low_T5/VN	1850.082	1850	Pass
GSM_Low_T6/VN	1850.080	1850	Pass
GSM_Low_T7/VN	1850.081	1850	Pass
GSM_Low_T8/VN	1850.080	1850	Pass
GSM_Low_TN/VH	1850.081	1850	Pass
GSM_Low_TN/VL	1850.079	1850	Pass
GSM_High_TN/VN	1909.925	1910	Pass
GSM_High_T1/VN	1909.925	1910	Pass
GSM_High_T2/VN	1909.924	1910	Pass
GSM_High_T3/VN	1909.922	1910	Pass
GSM_High_T4/VN	1909.921	1910	Pass
GSM_High_T5/VN	1909.929	1910	Pass
GSM_High_T6/VN	1909.924	1910	Pass
GSM_High_T7/VN	1909.925	1910	Pass
GSM_High_T8/VN	1909.924	1910	Pass
GSM_High_TN/VH	1909.922	1910	Pass
GSM_High_TN/VL	1909.925	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.

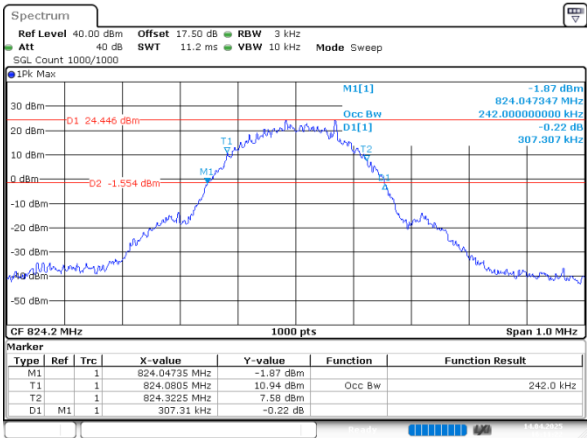
VN: Normal Voltage; VL: Low Voltage; VH: High Voltage.

Occupied Bandwidth**FCC Part 22H****GSM 850 , Normal**

Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.242	0.307
GSM_Middle	0.244	0.316
GSM_High	0.245	0.318

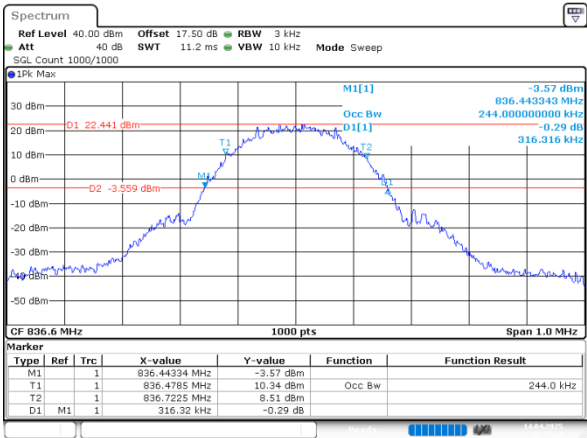
GSM 850 , Normal

GSM_Low



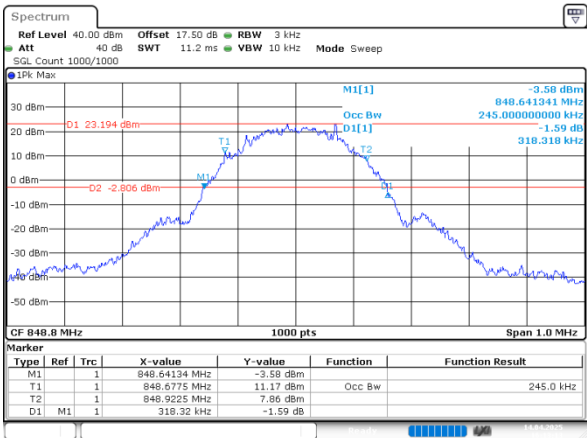
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GSM_Middle



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GSM_High



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FCC Part 24E**GSM 1900 , Normal**

Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.246	0.317
GSM_Middle	0.241	0.314
GSM_High	0.243	0.311

RF Output Power**FCC Part 22H****GSM 850 , Normal**

Mode	Average Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
GSM_Low	30.11	23.97	38.45	Pass
GSM_Middle	30.07	23.93	38.45	Pass
GSM_High	29.94	23.80	38.45	Pass
GPRS_Low_Slot1	30.12	23.98	38.45	Pass
GPRS_Low_Slot2	30.04	23.90	38.45	Pass
GPRS_Low_Slot3	28.91	22.77	38.45	Pass
GPRS_Low_Slot4	26.90	20.76	38.45	Pass
GPRS_Middle_Slot1	30.07	23.93	38.45	Pass
GPRS_Middle_Slot2	29.99	23.85	38.45	Pass
GPRS_Middle_Slot3	28.82	22.68	38.45	Pass
GPRS_Middle_Slot4	26.79	20.65	38.45	Pass
GPRS_High_Slot1	29.95	23.81	38.45	Pass
GPRS_High_Slot2	29.86	23.72	38.45	Pass
GPRS_High_Slot3	28.70	22.56	38.45	Pass
GPRS_High_Slot4	26.67	20.53	38.45	Pass

Note:

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

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

1.Antenna Gain = -3.99dBi;

2.Cable Loss = 0dB.

FCC Part 24E**GSM 1900 , Normal**

Mode	Average Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
GSM_Low	26.52	25.23	33	Pass
GSM_Middle	26.51	25.22	33	Pass
GSM_High	26.56	25.27	33	Pass
GPRS_Low_Slot1	26.51	25.22	33	Pass
GPRS_Low_Slot2	26.41	25.12	33	Pass
GPRS_Low_Slot3	25.45	24.16	33	Pass
GPRS_Low_Slot4	23.39	22.10	33	Pass
GPRS_Middle_Slot1	26.51	25.22	33	Pass
GPRS_Middle_Slot2	26.43	25.14	33	Pass
GPRS_Middle_Slot3	25.46	24.17	33	Pass
GPRS_Middle_Slot4	23.44	22.15	33	Pass
GPRS_High_Slot1	26.54	25.25	33	Pass
GPRS_High_Slot2	26.45	25.16	33	Pass
GPRS_High_Slot3	25.52	24.23	33	Pass
GPRS_High_Slot4	23.53	22.24	33	Pass

Note:

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

1.Antenna Gain = -1.09dBi;

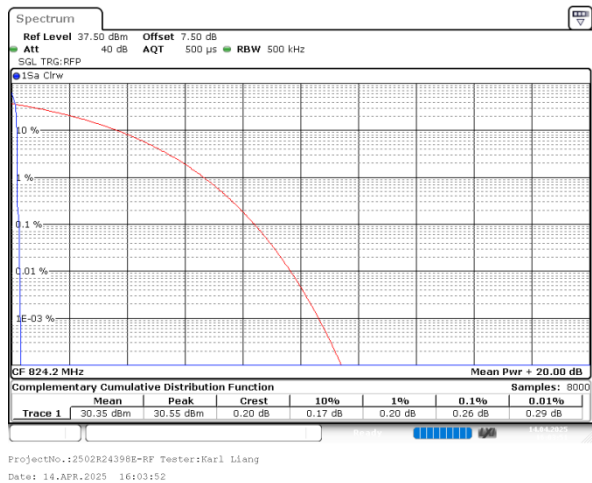
2.Cable Loss = 0.2dB.

Peak-to-average Ratio(PAR)**FCC Part 22H****GSM 850 , Normal**

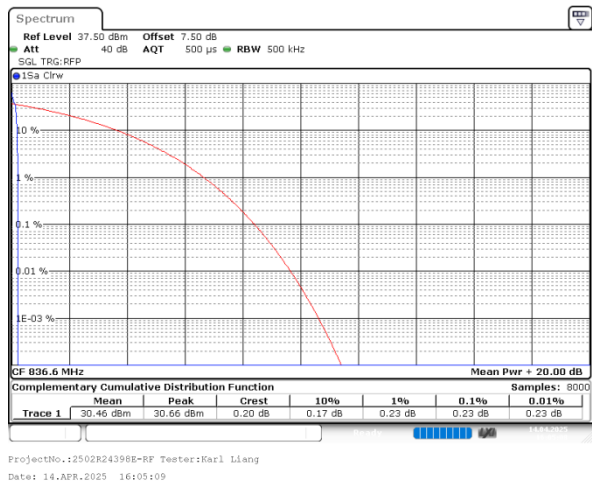
Mode	Result (dB)	Limit (dB)
GSM_Low	0.26	13
GSM_Middle	0.23	13
GSM_High	0.26	13

GSM 850 , Normal

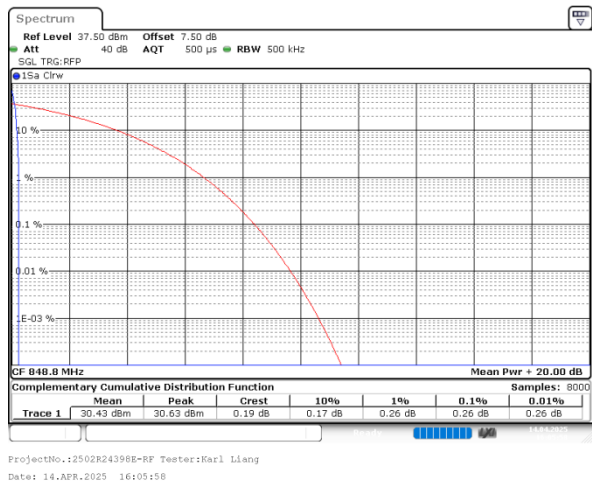
GSM_Low



GSM_Middle



GSM_High

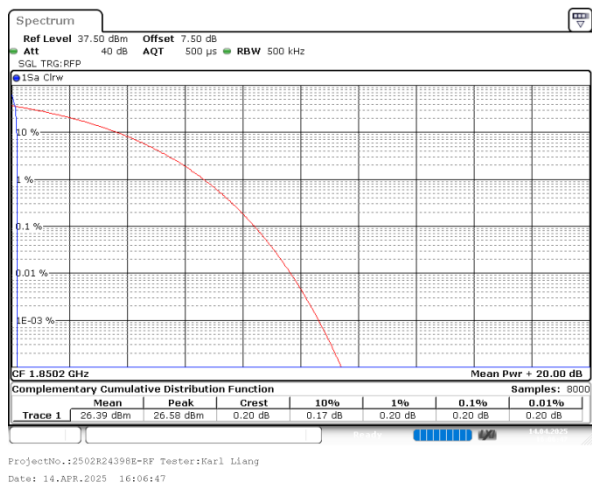


FCC Part 24E**GSM 1900 , Normal**

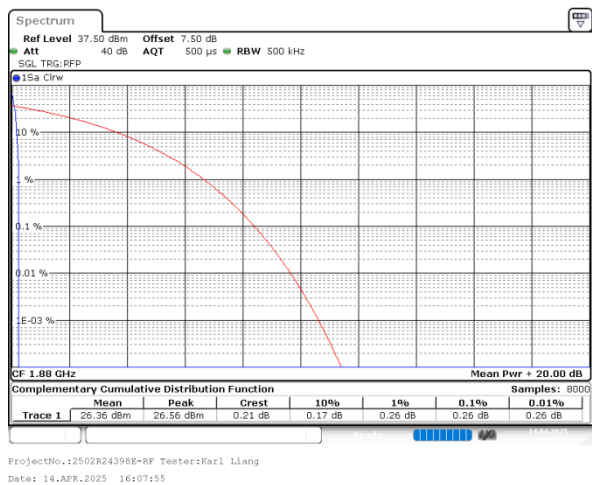
Mode	Result (dB)	Limit (dB)
GSM_Low	0.20	13
GSM_Middle	0.26	13
GSM_High	0.26	13

GSM 1900 , Normal

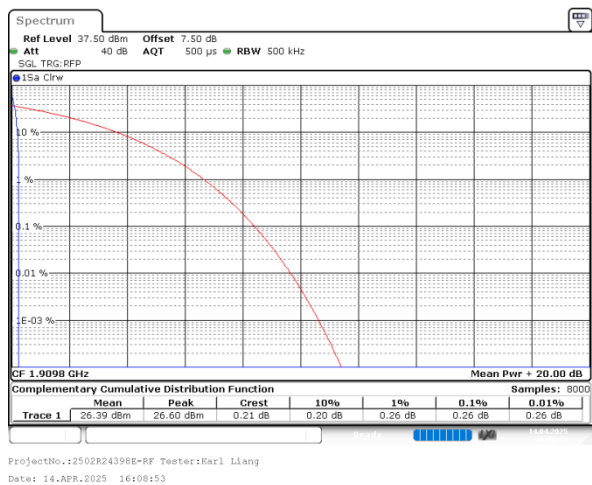
GSM_Low



GSM_Middle



GSM_High

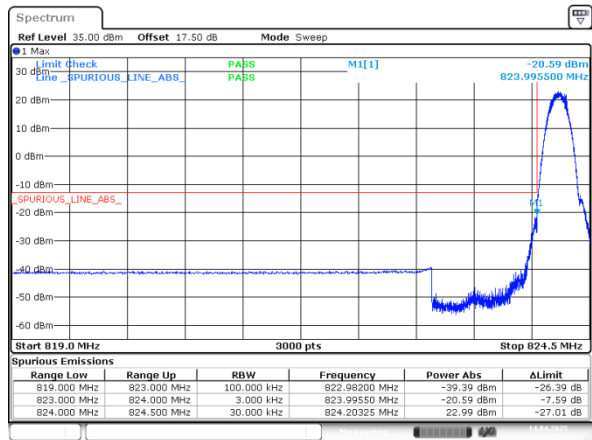


Out of band emission,Band Edge

FCC Part 22H

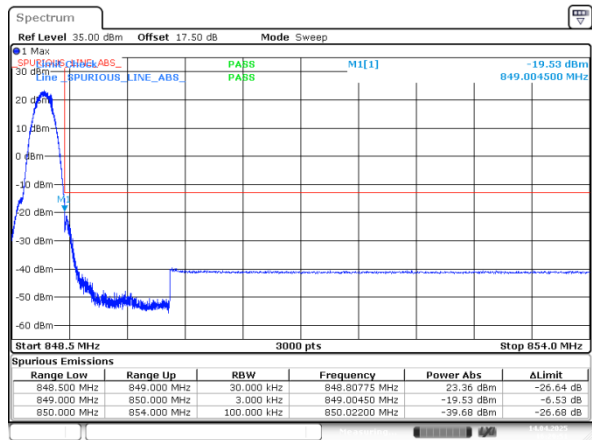
GSM 850 , Normal

GSM_Low



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GSM_High

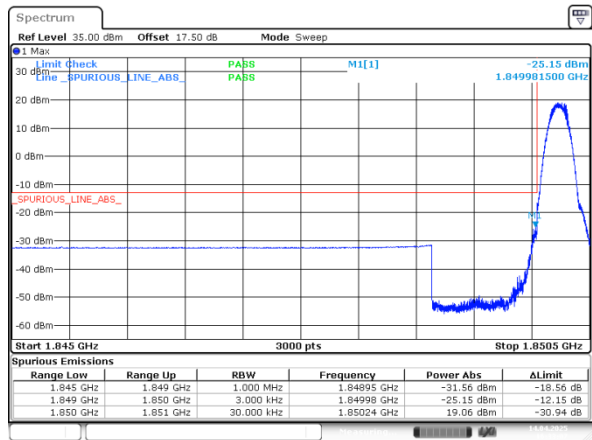


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FCC Part 24E

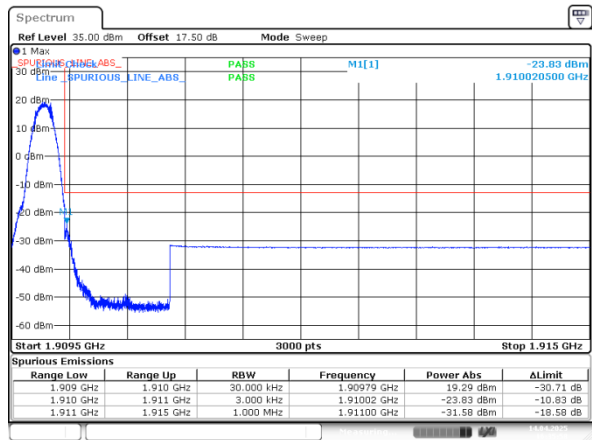
GSM 1900 , Normal

GSM_Low



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GSM_High



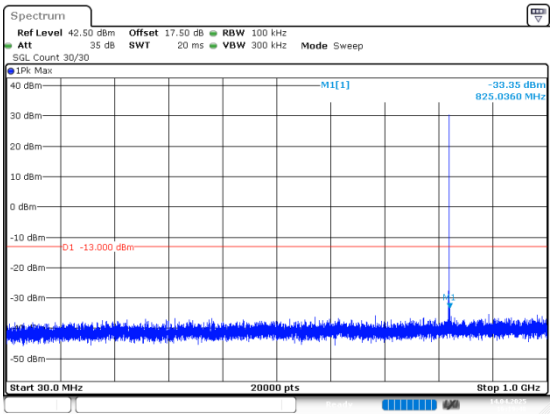
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Spurious Emissions at Antenna Terminal

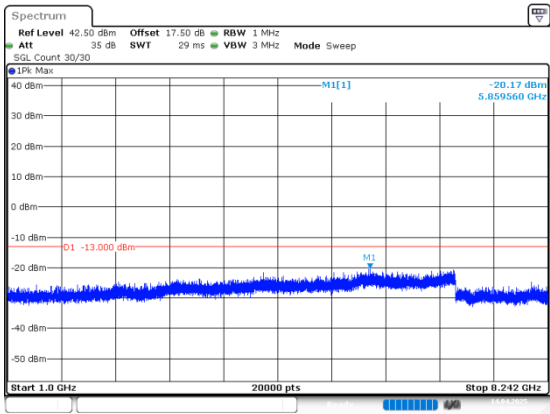
FCC Part 22H
GSM 850 , Normal

GSM_Low

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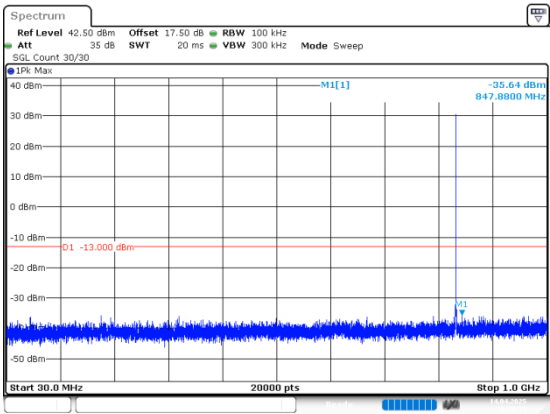


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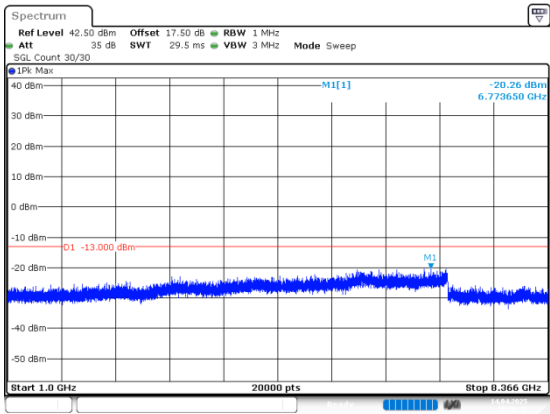


GSM_Middle

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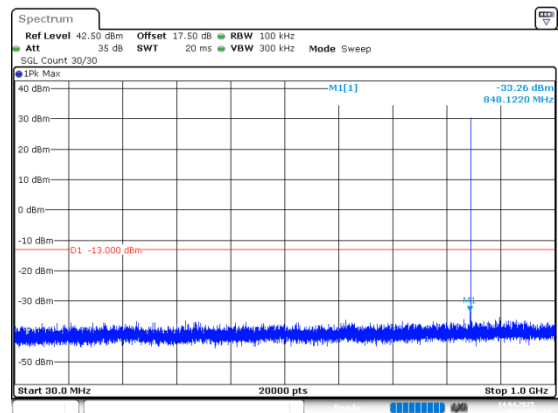


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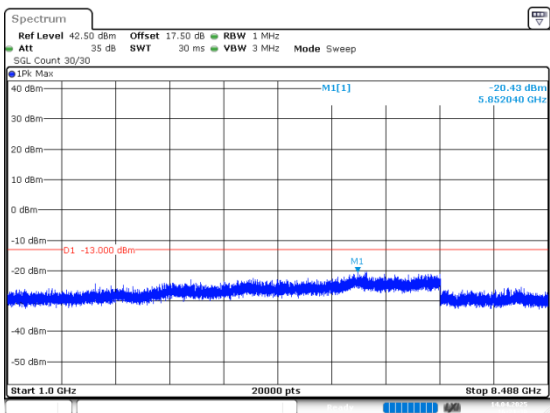
GSM_High

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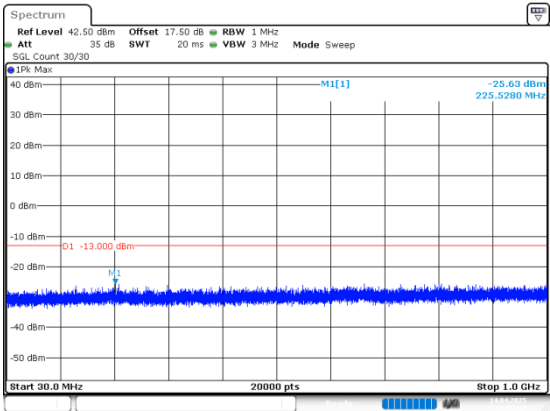


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FCC Part 24E
GSM 1900 , Normal

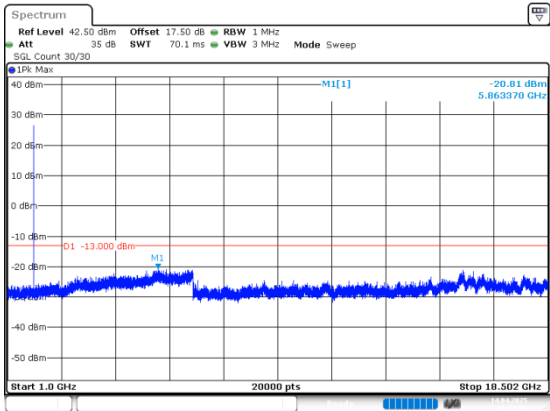
GSM_Low

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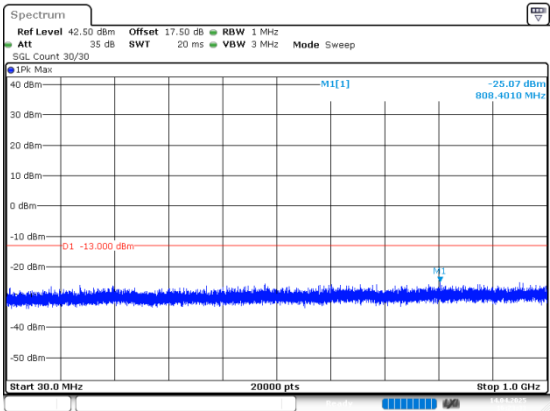
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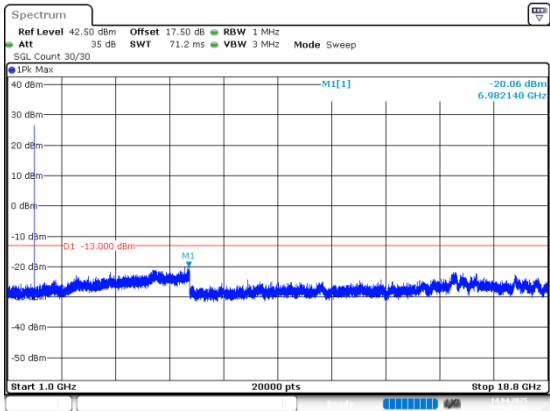
GSM_Middle

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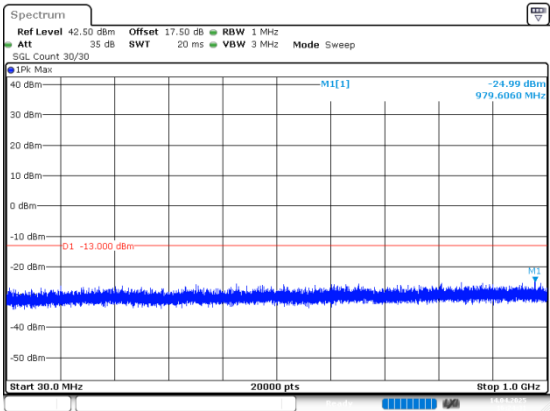
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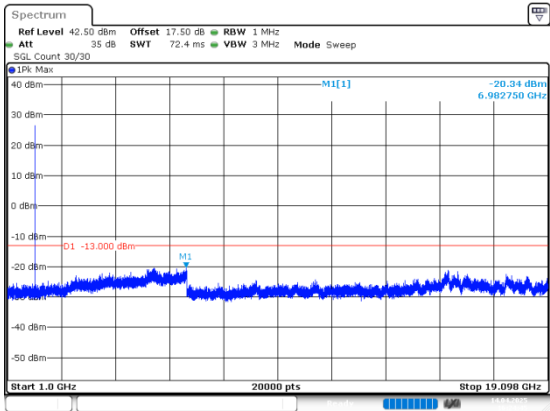
GSM_High

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