Appendix A

Test Information:

Serial No.:	2YIJ-1	**Test Date:**	2025/02/22
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Loge Long	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	23.9	**Relative Humidity: (%)**	42	**ATM Pressure: (kPa)**	101.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/02/25	2025/02/24
Micro-Coax	Coaxial Cable	UFB205A	323308-024	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
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	5.6	0.0067	±2.5	Pass
GPRS_Middle_Slot1_T1/VN	836.6	6.0	0.0072	±2.5	Pass
GPRS_Middle_Slot1_T2/VN	836.6	10.8	0.0129	±2.5	Pass
GPRS_Middle_Slot1_T3/VN	836.6	5.1	0.0061	±2.5	Pass
GPRS_Middle_Slot1_T4/VN	836.6	10.7	0.0127	±2.5	Pass
GPRS_Middle_Slot1_T5/VN	836.6	6.3	0.0075	±2.5	Pass
GPRS_Middle_Slot1_T6/VN	836.6	5.1	0.0061	±2.5	Pass
GPRS_Middle_Slot1_T7/VN	836.6	8.7	0.0103	±2.5	Pass
GPRS_Middle_Slot1_T8/VN	836.6	6.6	0.0078	±2.5	Pass
GPRS_Middle_Slot1_TN/VH	836.6	7.9	0.0095	±2.5	Pass
GPRS_Middle_Slot1_TN/VL	836.6	5.3	0.0063	±2.5	Pass

Note:

Frequency Error (ppm)=Frequency Error (MHz)/Test Channel(MHz)*10^6

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	1850.082	1850	Pass
GPRS_Low_Slot1_T1/VN	1850.080	1850	Pass
GPRS_Low_Slot1_T2/VN	1850.080	1850	Pass
GPRS_Low_Slot1_T3/VN	1850.082	1850	Pass
GPRS_Low_Slot1_T4/VN	1850.078	1850	Pass
GPRS_Low_Slot1_T5/VN	1850.083	1850	Pass
GPRS_Low_Slot1_T6/VN	1850.082	1850	Pass
GPRS_Low_Slot1_T7/VN	1850.080	1850	Pass
GPRS_Low_Slot1_T8/VN	1850.081	1850	Pass
GPRS_Low_Slot1_TN/VH	1850.084	1850	Pass
GPRS_Low_Slot1_TN/VL	1850.080	1850	Pass
GPRS_High_Slot1_TN/VN	1909.924	1910	Pass
GPRS_High_Slot1_T1/VN	1909.924	1910	Pass
GPRS_High_Slot1_T2/VN	1909.924	1910	Pass
GPRS_High_Slot1_T3/VN	1909.924	1910	Pass
GPRS_High_Slot1_T4/VN	1909.926	1910	Pass
GPRS_High_Slot1_T5/VN	1909.919	1910	Pass
GPRS_High_Slot1_T6/VN	1909.923	1910	Pass
GPRS_High_Slot1_T7/VN	1909.924	1910	Pass
GPRS_High_Slot1_T8/VN	1909.921	1910	Pass
GPRS_High_Slot1_TN/VH	1909.928	1910	Pass
GPRS_High_Slot1_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

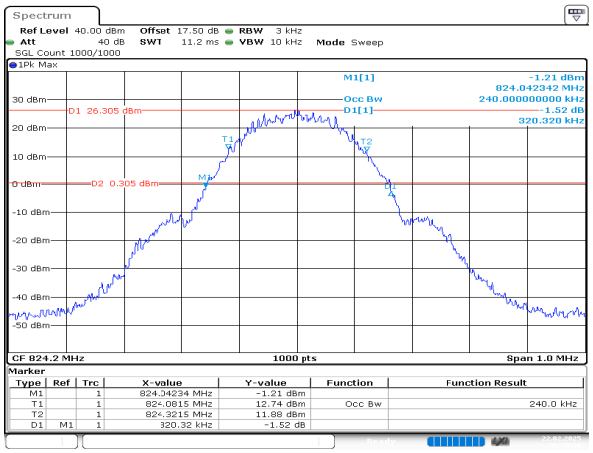
FCC Part 22H

GSM 850 , Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
GPRS_Low_Slot1	0.240	0.320
GPRS_Middle_Slot1	0.242	0.319
GPRS_High_Slot1	0.243	0.316
EDGE_Low_Slot1	0.245	0.310
EDGE_Middle_Slot1	0.245	0.316
EDGE_High_Slot1	0.248	0.314

GSM 850 , Normal

GPRS_Low_Slot1



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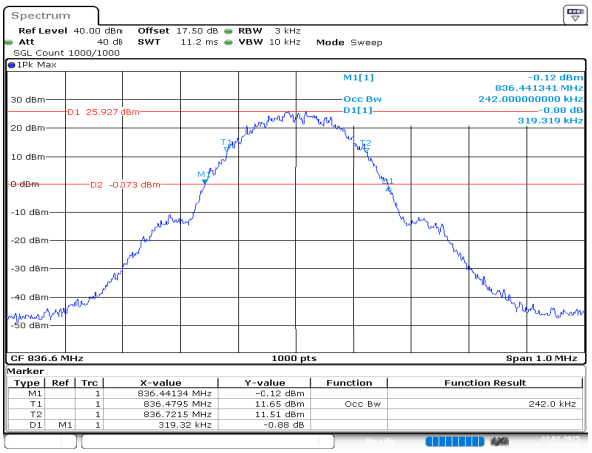
GPRS_Middle_Slot1



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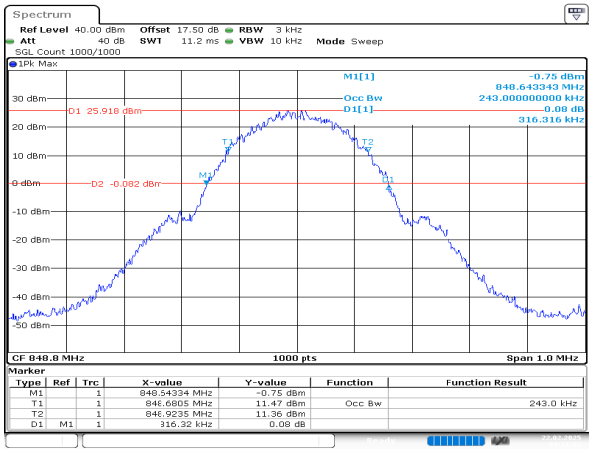
GPRS_High_Slot1



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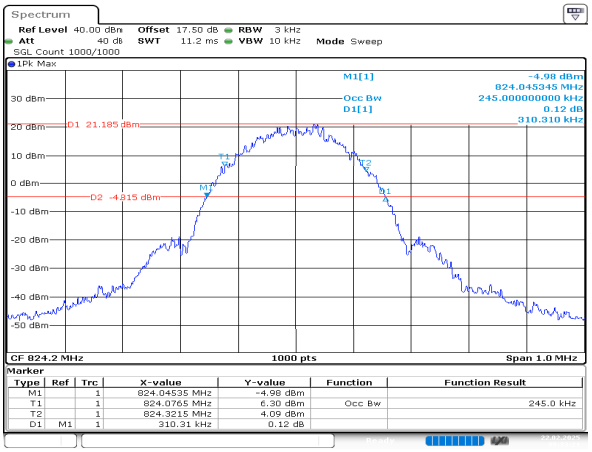
EDGE_Low_Slot1



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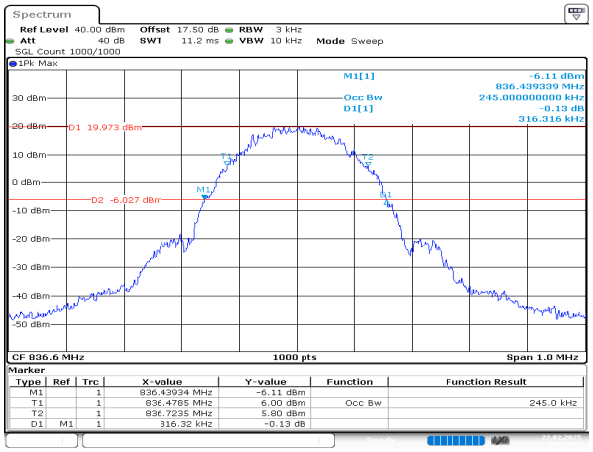

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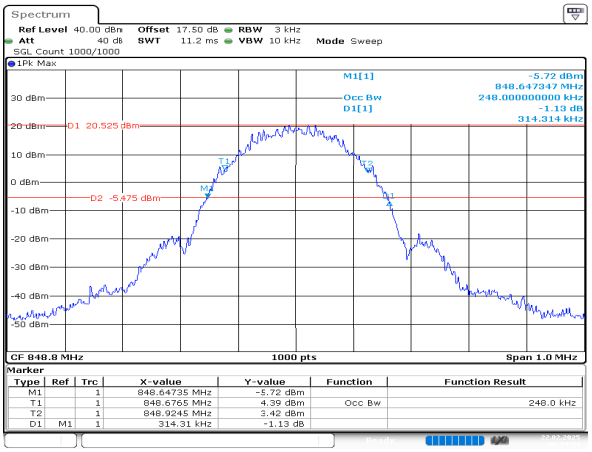
Date: 22.FEB.2025 09:34:08

EDGE_High_Slot1



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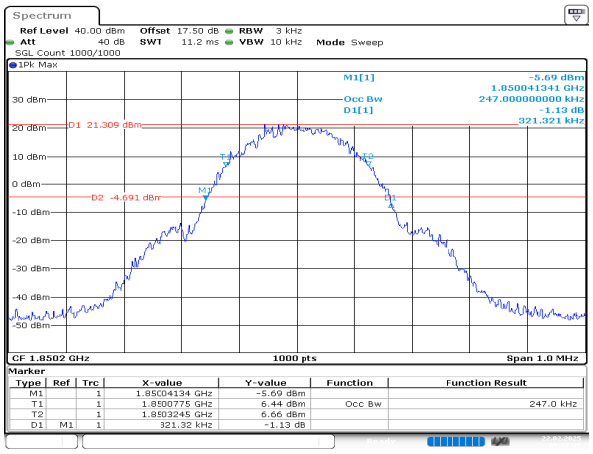
FCC Part 24E

GSM 1900 , Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
GPRS_Low_Slot1	0.247	0.321
GPRS_Middle_Slot1	0.242	0.315
GPRS_High_Slot1	0.243	0.318
EDGE_Low_Slot1	0.250	0.318
EDGE_Middle_Slot1	0.251	0.313
EDGE_High_Slot1	0.249	0.314

GSM 1900 , Normal

GPRS_Low_Slot1



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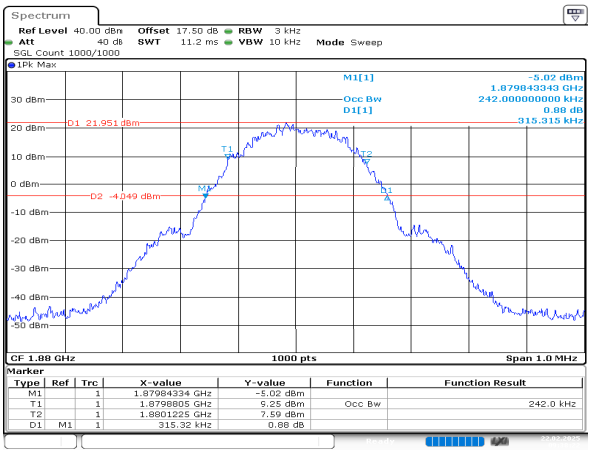
GPRS_Middle_Slot1



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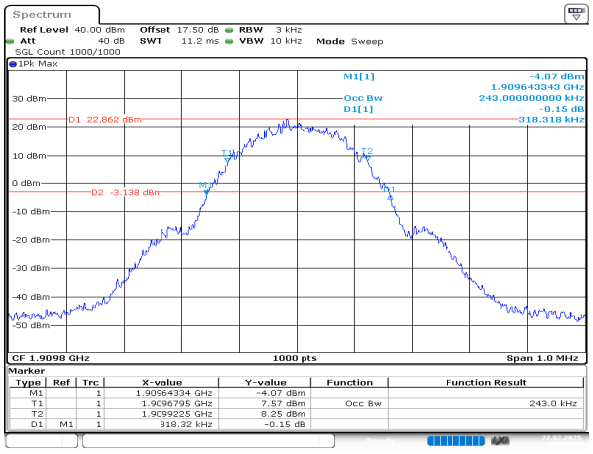
Date: 22.FEB.2025 09:38:22

GPRS_High_Slot1



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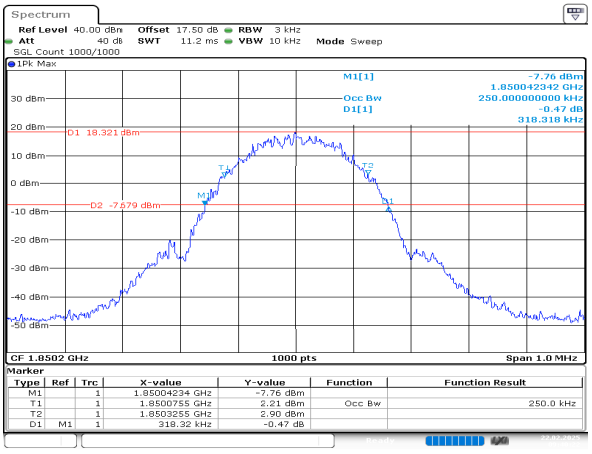
EDGE_Low_Slot1



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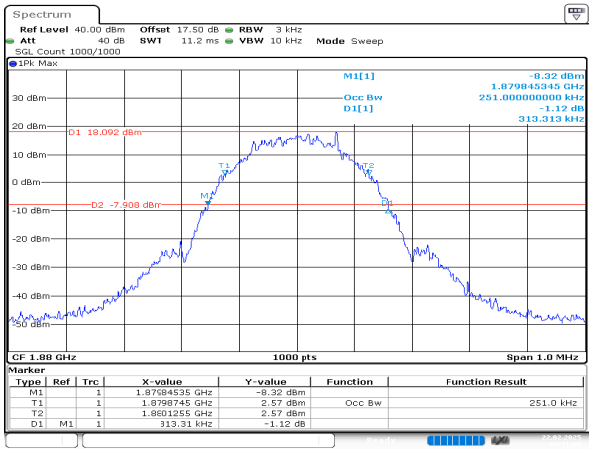
EDGE_Middle_Slot1



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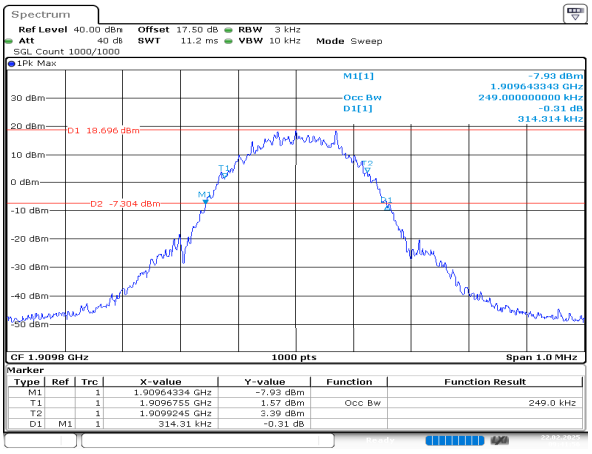
EDGE_High_Slot1



ProjectNo.:2502Q44141E-RF Tester:Loge Long
Date: 22.FEB.2025 09:41:57

RF Output Power

FCC Part 22H

GSM 850 , Normal

Mode	Average Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
GPRS_Low_Slot1	32.74	30.10	38.45	Pass
GPRS_Low_Slot2	32.04	29.40	38.45	Pass
GPRS_Low_Slot3	30.38	27.74	38.45	Pass
GPRS_Low_Slot4	29.33	26.69	38.45	Pass
GPRS_Middle_Slot1	32.66	30.02	38.45	Pass
GPRS_Middle_Slot2	31.97	29.33	38.45	Pass
GPRS_Middle_Slot3	30.30	27.66	38.45	Pass
GPRS_Middle_Slot4	29.24	26.60	38.45	Pass
GPRS_High_Slot1	32.57	29.93	38.45	Pass
GPRS_High_Slot2	31.87	29.23	38.45	Pass
GPRS_High_Slot3	30.18	27.54	38.45	Pass
GPRS_High_Slot4	29.11	26.47	38.45	Pass
EDGE_Low_Slot1	27.83	25.19	38.45	Pass
EDGE_Low_Slot2	26.82	24.18	38.45	Pass
EDGE_Low_Slot3	24.66	22.02	38.45	Pass
EDGE_Low_Slot4	23.54	20.90	38.45	Pass
EDGE_Middle_Slot1	27.56	24.92	38.45	Pass
EDGE_Middle_Slot2	26.51	23.87	38.45	Pass
EDGE_Middle_Slot3	24.38	21.74	38.45	Pass
EDGE_Middle_Slot4	23.22	20.58	38.45	Pass
EDGE_High_Slot1	27.42	24.78	38.45	Pass
EDGE_High_Slot2	26.35	23.71	38.45	Pass
EDGE_High_Slot3	24.17	21.53	38.45	Pass
EDGE_High_Slot4	23.09	20.45	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 = -0.49dBi;

2.Cable Loss = 0dB.

FCC Part 24E

GSM 1900 , Normal

Mode	Average Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
GPRS_Low_Slot1	29.53	31.47	33	Pass
GPRS_Low_Slot2	28.80	30.74	33	Pass
GPRS_Low_Slot3	27.00	28.94	33	Pass
GPRS_Low_Slot4	25.94	27.88	33	Pass
GPRS_Middle_Slot1	29.60	31.54	33	Pass
GPRS_Middle_Slot2	28.86	30.80	33	Pass
GPRS_Middle_Slot3	27.03	28.97	33	Pass
GPRS_Middle_Slot4	25.95	27.89	33	Pass
GPRS_High_Slot1	29.72	31.66	33	Pass
GPRS_High_Slot2	28.98	30.92	33	Pass
GPRS_High_Slot3	27.17	29.11	33	Pass
GPRS_High_Slot4	26.08	28.02	33	Pass
EDGE_Low_Slot1	25.63	27.57	33	Pass
EDGE_Low_Slot2	24.34	26.28	33	Pass
EDGE_Low_Slot3	22.14	24.08	33	Pass
EDGE_Low_Slot4	20.97	22.91	33	Pass
EDGE_Middle_Slot1	25.53	27.47	33	Pass
EDGE_Middle_Slot2	24.32	26.26	33	Pass
EDGE_Middle_Slot3	22.14	24.08	33	Pass
EDGE_Middle_Slot4	21.07	23.01	33	Pass
EDGE_High_Slot1	25.78	27.72	33	Pass
EDGE_High_Slot2	24.52	26.46	33	Pass
EDGE_High_Slot3	22.41	24.35	33	Pass
EDGE_High_Slot4	21.36	23.30	33	Pass

Note:

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

1.Antenna Gain = 1.94dBi;

2.Cable Loss = 0dB.

Peak-to-average Ratio(PAR)

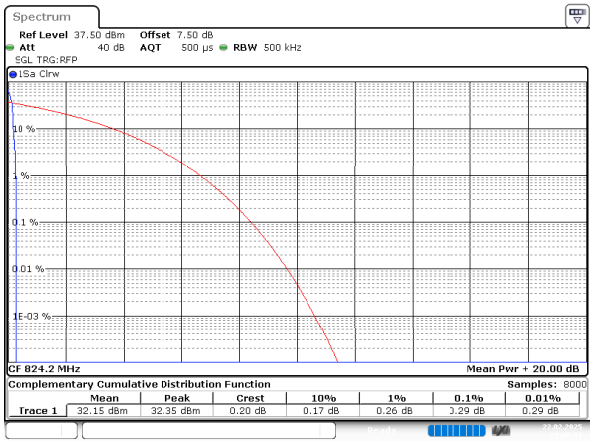
FCC Part 22H

GSM 850 , Normal

Mode	Result (dB)	Limit (dB)
GPRS_Low_Slot1	0.29	13
GPRS_Middle_Slot1	0.23	13
GPRS_High_Slot1	0.23	13

GSM 850 , Normal

GPRS_Low_Slot1



ProjectNo.:2502Q44141E-RF Tester:Loge Long
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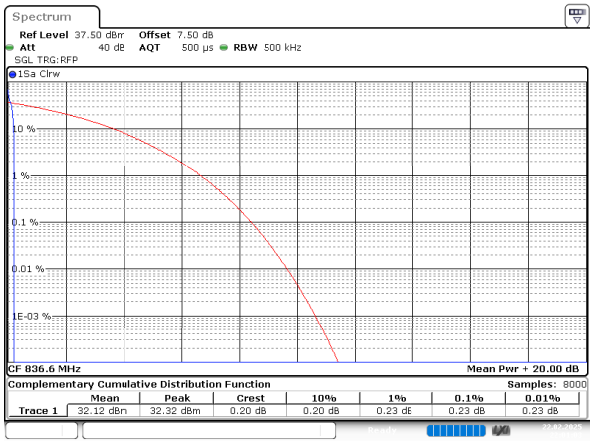
GPRS_Middle_Slot1



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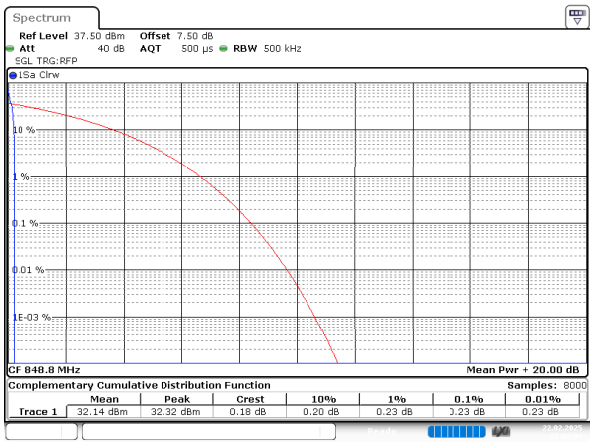
Date: 22.FEB.2025 22:01:03

GPRS_High_Slot1



ProjectNo.:2502Q44141E-RF Tester:Loge Long
Date: 22.FEB.2025 22:02:04

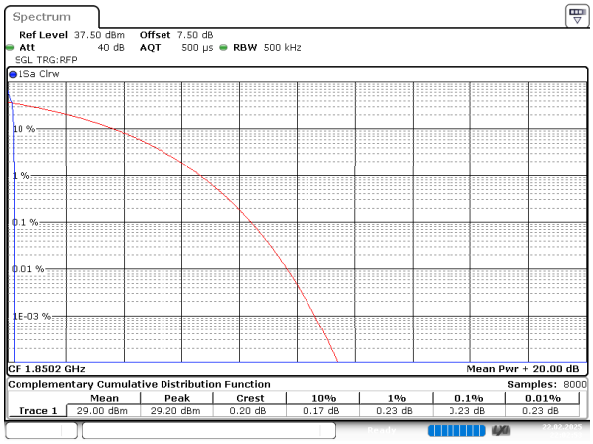
FCC Part 24E

GSM 1900 , Normal

Mode	Result (dB)	Limit (dB)
GPRS_Low_Slot1	0.23	13
GPRS_Middle_Slot1	0.23	13
GPRS_High_Slot1	0.23	13

GSM 1900 , Normal

GPRS_Low_Slot1



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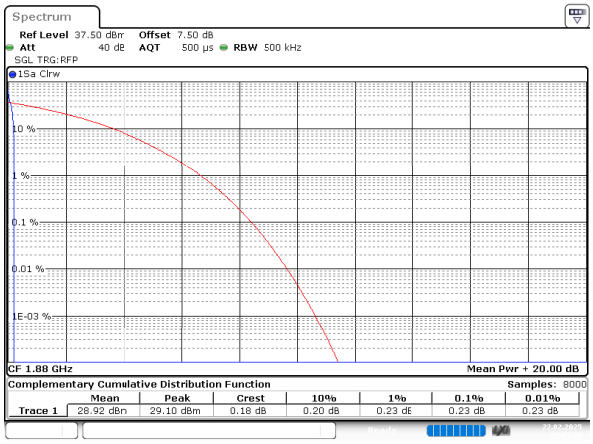
GPRS_Middle_Slot1



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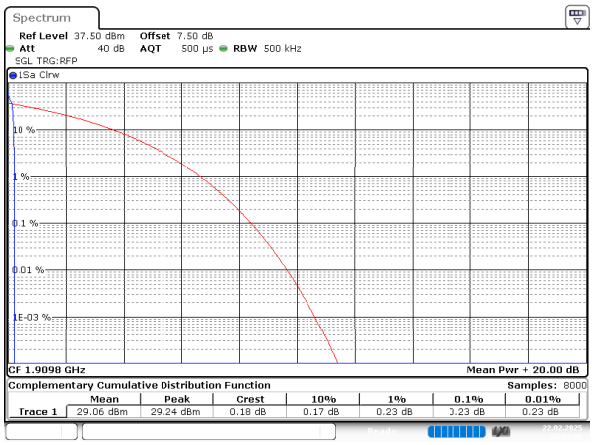
GPRS_High_Slot1



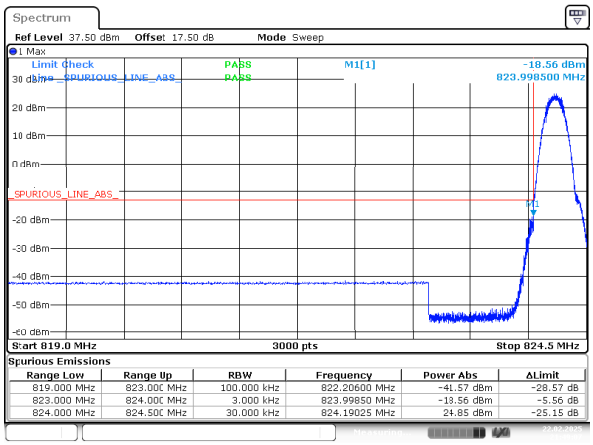
ProjectNo.:2502Q44141E-RF Tester:Loge Long
Date: 22.FEB.2025 22:04:01

Out of band emission,Band Edge

FCC Part 22H

GSM 850 , Normal

GPRS_Low_Slot1



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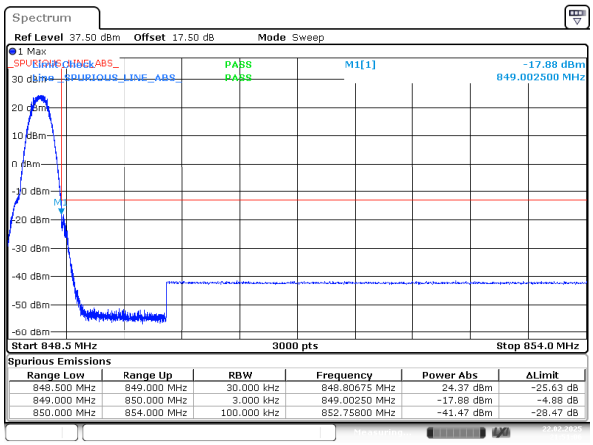
GPRS_High_Slot1



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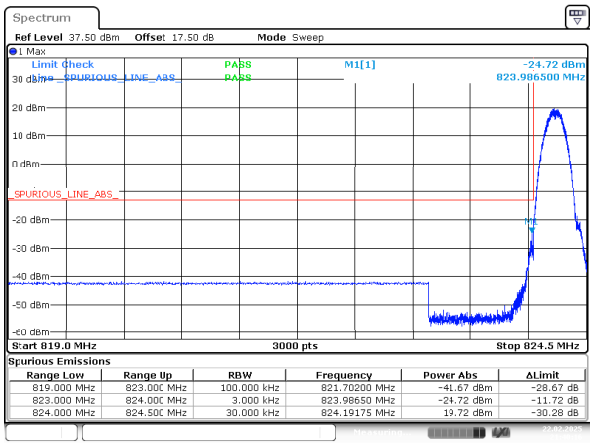
EDGE_Low_Slot1



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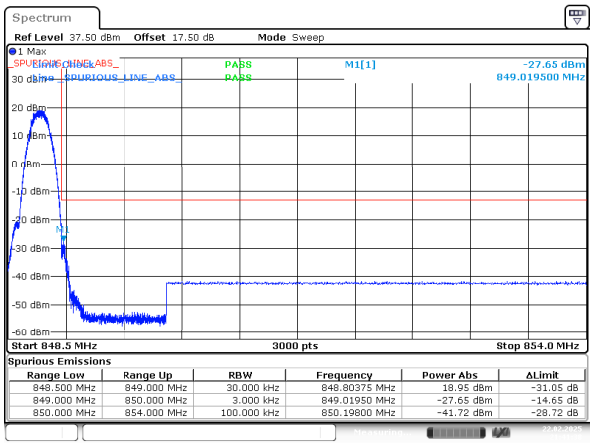
EDGE_High_Slot1



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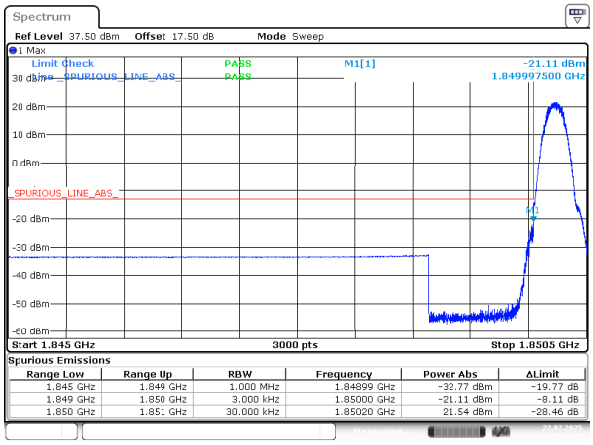
Date: 22.FEB.2025 21:41:38

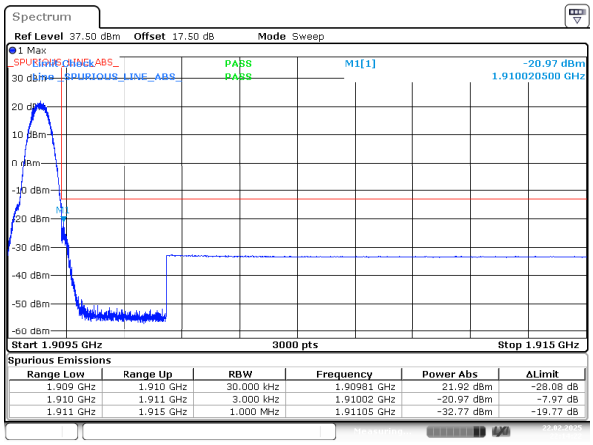
FCC Part 24E

GSM 1900 , Normal

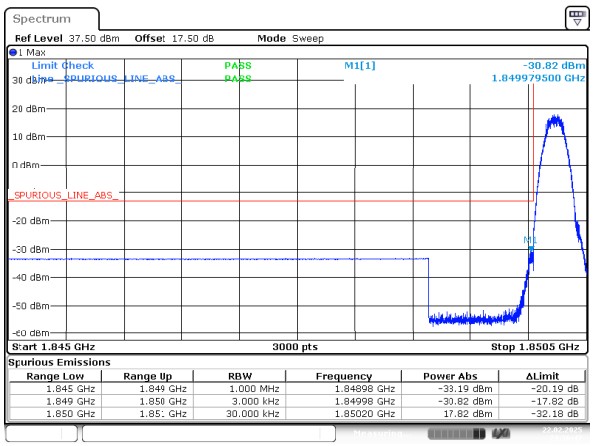
GPRS_Low_Slot1



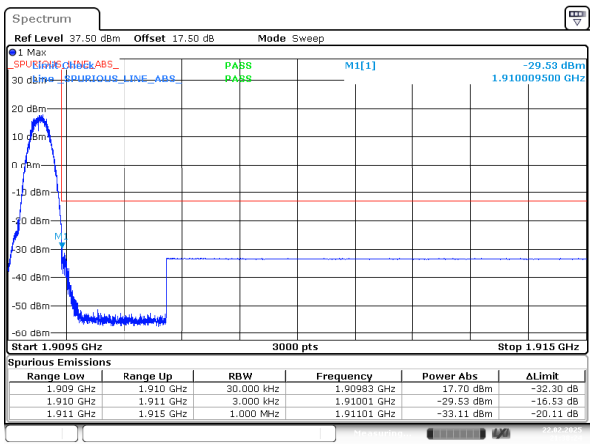
GPRS_High_Slot1



EDGE_Low_Slot1



EDGE_High_Slot1



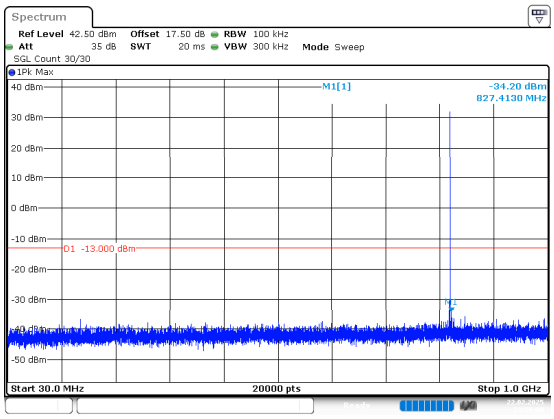
Spurious Emissions at Antenna Terminal

FCC Part 22H

GSM 850 , Normal

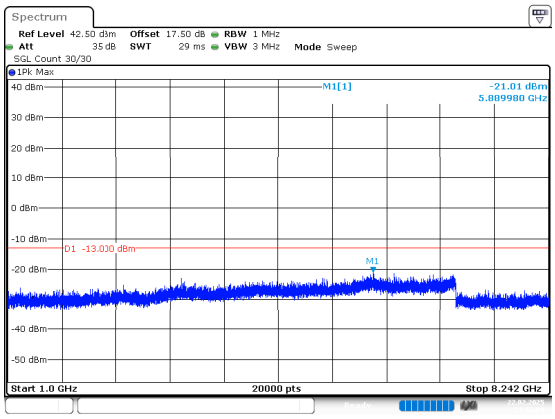
GPRS_Low_Slot1

Below 1G



ProjectNo.:2502Q44141E-RF Tester:Loge Long
Date: 22.FEB.2025 21:56:00

Above 1G



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GPRS_Middle_Slot1

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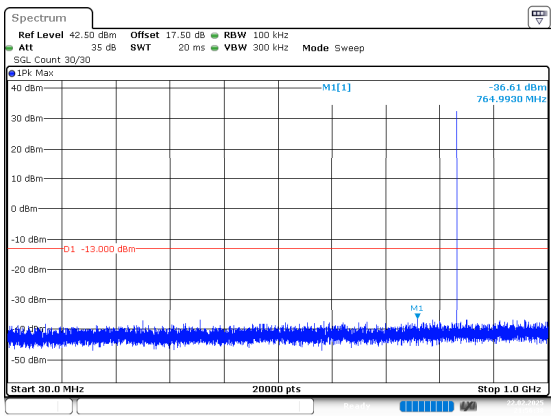

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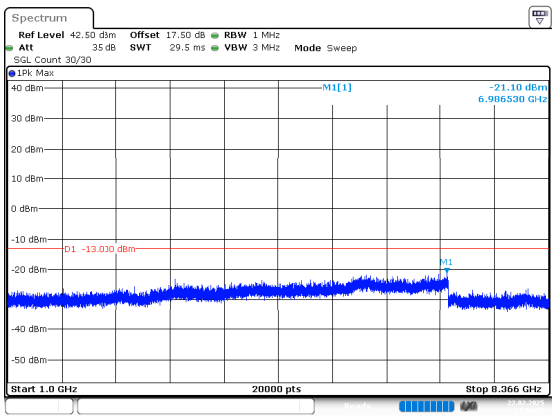

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GPRS_High_Slot1

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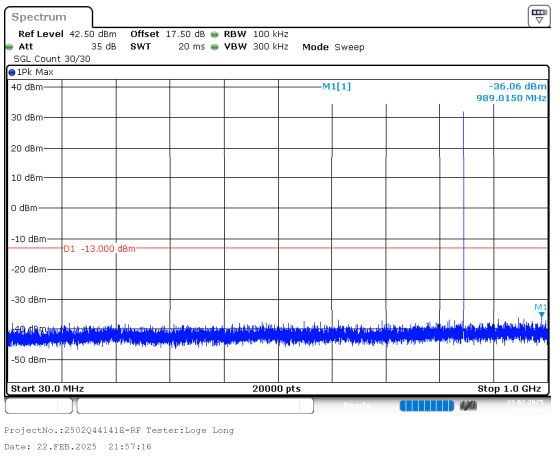

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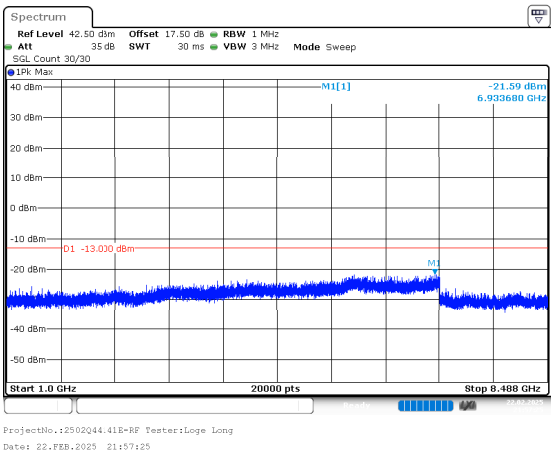

FCC Part 24E

GSM 1900 , Normal

GPRS_Low_Slot1

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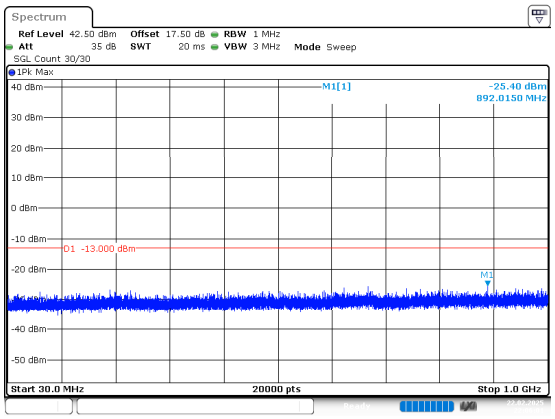

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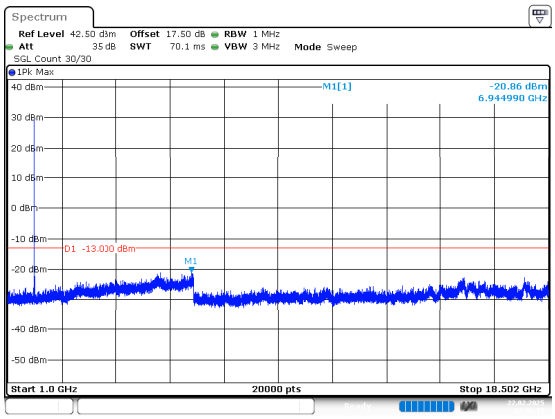

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Date: 22.FEB.2025 22:06:15

GPRS_Middle_Slot1

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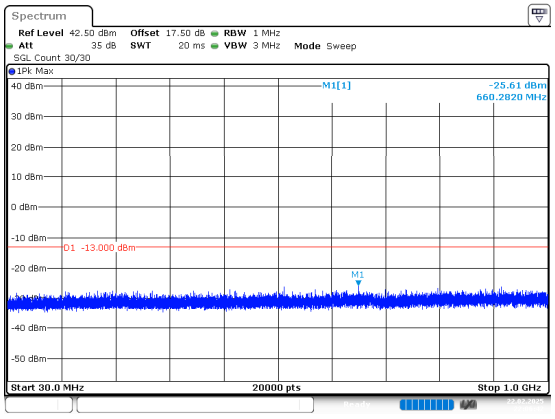

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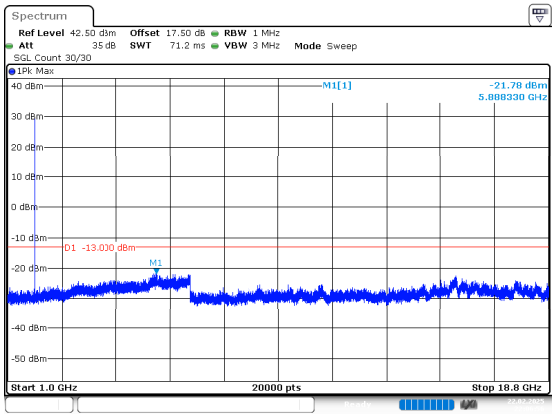

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Date: 22.FEB.2025 22:06:57

GPRS_High_Slot1

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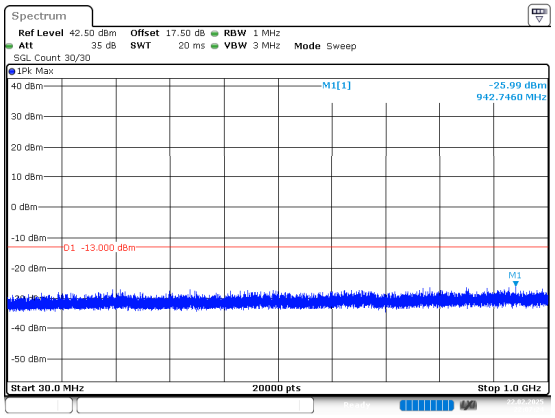

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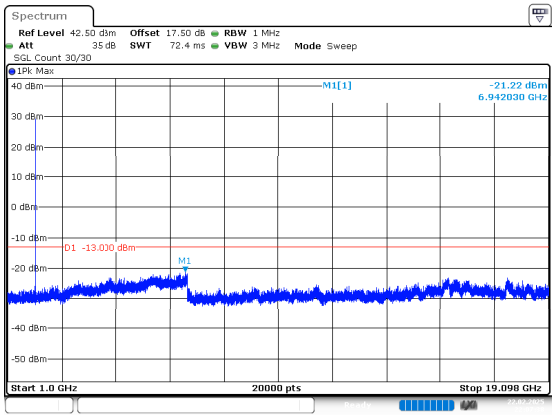

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