

Appendix A

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/13
Test Site:	RF	Test Mode:	Transmitting
Tester:	Fermin Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	28.1	Relative Humidity: (%)	58	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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	149216	2024/09/05	2025/09/04
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2024/09/06	2025/09/05
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2025/02/25	2026/02/24
Micro-Coax	Coaxial Cable	UFB205A	323308-015	2025/06/01	2026/05/31
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM502	2025/06/07	2026/06/06
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A
HUBER+SUHNER	Coaxial Attenuator	6610_SMA-50-1	0064	2025/06/13	2026/06/12

* 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

IC RSS 132
GSM 850

Mode	Result (MHz)	Limit (MHz)	Verdict
GSM_Low_TN/VN	824.079	824	Pass
GSM_Low_T1/VN	824.080	824	Pass
GSM_Low_T2/VN	824.081	824	Pass
GSM_Low_T3/VN	824.078	824	Pass
GSM_Low_T4/VN	824.080	824	Pass
GSM_Low_T5/VN	824.083	824	Pass
GSM_Low_T6/VN	824.078	824	Pass
GSM_Low_T7/VN	824.081	824	Pass
GSM_Low_T8/VN	824.078	824	Pass
GSM_Low_TN/VH	824.080	824	Pass
GSM_Low_TN/VL	824.0781	824	Pass
GSM_High_TN/VN	848.921	849	Pass
GSM_High_T1/VN	848.922	849	Pass
GSM_High_T2/VN	848.921	849	Pass
GSM_High_T3/VN	848.920	849	Pass
GSM_High_T4/VN	848.924	849	Pass
GSM_High_T5/VN	848.919	849	Pass
GSM_High_T6/VN	848.918	849	Pass
GSM_High_T7/VN	848.920	849	Pass
GSM_High_T8/VN	848.922	849	Pass
GSM_High_TN/VH	848.922	849	Pass
GSM_High_TN/VL	848.921	849	Pass
EDGE_Low_Slot1_TN/VN	824.085	824	Pass
EDGE_Low_Slot1_T1/VN	824.079	824	Pass
EDGE_Low_Slot1_T2/VN	824.082	824	Pass
EDGE_Low_Slot1_T3/VN	824.082	824	Pass
EDGE_Low_Slot1_T4/VN	824.079	824	Pass
EDGE_Low_Slot1_T5/VN	824.080	824	Pass
EDGE_Low_Slot1_T6/VN	824.081	824	Pass
EDGE_Low_Slot1_T7/VN	824.083	824	Pass
EDGE_Low_Slot1_T8/VN	824.078	824	Pass
EDGE_Low_Slot1_TN/VH	824.080	824	Pass
EDGE_Low_Slot1_TN/VL	824.076	824	Pass
EDGE_High_Slot1_TN/VN	848.923	849	Pass
EDGE_High_Slot1_T1/VN	848.920	849	Pass
EDGE_High_Slot1_T2/VN	848.919	849	Pass
EDGE_High_Slot1_T3/VN	848.924	849	Pass
EDGE_High_Slot1_T4/VN	848.925	849	Pass
EDGE_High_Slot1_T5/VN	848.918	849	Pass
EDGE_High_Slot1_T6/VN	848.917	849	Pass
EDGE_High_Slot1_T7/VN	848.920	849	Pass
EDGE_High_Slot1_T8/VN	848.919	849	Pass
EDGE_High_Slot1_TN/VH	848.923	849	Pass
EDGE_High_Slot1_TN/VL	848.921	849	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.

FCC Part 22H

GSM 850

Mode	Test Channel (MHz)	Frequency Error		Limit (ppm)	Verdict
		(Hz)	(ppm)		
GSM_Middle_TN/VN	836.6	12.9	0.0154	±2.5	Pass
GSM_Middle_T1/VN	836.6	12.8	0.0152	±2.5	Pass
GSM_Middle_T2/VN	836.6	-10.7	-0.0128	±2.5	Pass
GSM_Middle_T3/VN	836.6	11.4	0.0137	±2.5	Pass
GSM_Middle_T4/VN	836.6	-7.5	-0.0090	±2.5	Pass
GSM_Middle_T5/VN	836.6	11.1	0.0133	±2.5	Pass
GSM_Middle_T6/VN	836.6	13.0	0.0155	±2.5	Pass
GSM_Middle_T7/VN	836.6	-6.2	-0.0074	±2.5	Pass
GSM_Middle_T8/VN	836.6	6.8	0.0081	±2.5	Pass
GSM_Middle_TN/VH	836.6	-0.7	-0.0008	±2.5	Pass
GSM_Middle_TN/VL	836.6	6.6	0.0079	±2.5	Pass
EDGE_Middle_8PSK_TN/VN	836.6	2.5	0.0030	±2.5	Pass
EDGE_Middle_8PSK_T1/VN	836.6	-4.5	-0.0054	±2.5	Pass
EDGE_Middle_8PSK_T2/VN	836.6	-3.8	-0.0045	±2.5	Pass
EDGE_Middle_8PSK_T3/VN	836.6	-2.9	-0.0034	±2.5	Pass
EDGE_Middle_8PSK_T4/VN	836.6	-1.7	-0.0020	±2.5	Pass
EDGE_Middle_8PSK_T5/VN	836.6	-1.8	-0.0022	±2.5	Pass
EDGE_Middle_8PSK_T6/VN	836.6	-2.4	-0.0028	±2.5	Pass
EDGE_Middle_8PSK_T7/VN	836.6	-1.4	-0.0017	±2.5	Pass
EDGE_Middle_8PSK_T8/VN	836.6	-0.7	-0.0008	±2.5	Pass
EDGE_Middle_8PSK_TN/VH	836.6	-1.0	-0.0012	±2.5	Pass
EDGE_Middle_8PSK_TN/VL	836.6	1.0	0.0012	±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&IC RSS 133

GSM 1900

Mode	Result (MHz)	Limit (MHz)	Verdict
GSM_Low_TN/VN	1850.083	1850	Pass
GSM_Low_T1/VN	1850.081	1850	Pass
GSM_Low_T2/VN	1850.081	1850	Pass
GSM_Low_T3/VN	1850.081	1850	Pass
GSM_Low_T4/VN	1850.080	1850	Pass
GSM_Low_T5/VN	1850.084	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	1850.082	1850	Pass
GSM_Low_TN/VL	1850.081	1850	Pass
GSM_High_TN/VN	1909.920	1910	Pass
GSM_High_T1/VN	1909.926	1910	Pass
GSM_High_T2/VN	1909.920	1910	Pass
GSM_High_T3/VN	1909.925	1910	Pass
GSM_High_T4/VN	1909.922	1910	Pass
GSM_High_T5/VN	1909.920	1910	Pass
GSM_High_T6/VN	1909.924	1910	Pass
GSM_High_T7/VN	1909.925	1910	Pass
GSM_High_T8/VN	1909.920	1910	Pass
GSM_High_TN/VH	1909.923	1910	Pass
GSM_High_TN/VL	1909.926	1910	Pass
EDGE_Low_8PSK_TN/VN	1850.084	1850	Pass
EDGE_Low_8PSK_T1/VN	1850.076	1850	Pass
EDGE_Low_8PSK_T2/VN	1850.081	1850	Pass
EDGE_Low_8PSK_T3/VN	1850.082	1850	Pass
EDGE_Low_8PSK_T4/VN	1850.080	1850	Pass
EDGE_Low_8PSK_T5/VN	1850.078	1850	Pass
EDGE_Low_8PSK_T6/VN	1850.079	1850	Pass
EDGE_Low_8PSK_T7/VN	1850.083	1850	Pass
EDGE_Low_8PSK_T8/VN	1850.080	1850	Pass
EDGE_Low_8PSK_TN/VH	1850.083	1850	Pass
EDGE_Low_8PSK_TN/VL	1850.085	1850	Pass
EDGE_High_8PSK_TN/VN	1909.919	1910	Pass
EDGE_High_8PSK_T1/VN	1909.921	1910	Pass
EDGE_High_8PSK_T2/VN	1909.921	1910	Pass
EDGE_High_8PSK_T3/VN	1909.923	1910	Pass
EDGE_High_8PSK_T4/VN	1909.923	1910	Pass
EDGE_High_8PSK_T5/VN	1909.920	1910	Pass
EDGE_High_8PSK_T6/VN	1909.924	1910	Pass
EDGE_High_8PSK_T7/VN	1909.924	1910	Pass
EDGE_High_8PSK_T8/VN	1909.926	1910	Pass
EDGE_High_8PSK_TN/VH	1909.918	1910	Pass
EDGE_High_8PSK_TN/VL	1909.921	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

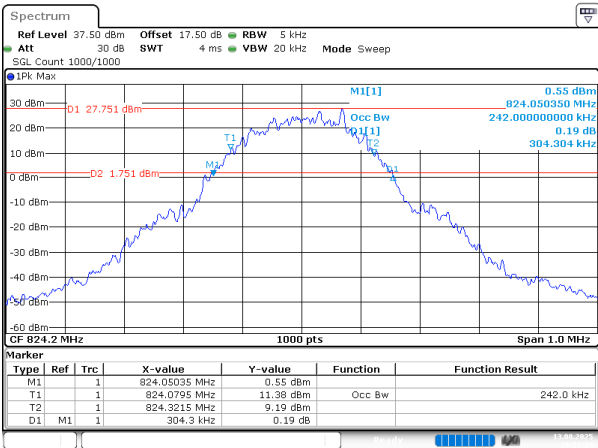
FCC Part 22H&IC RSS 132

GSM 850, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.242	0.304
GSM_Middle	0.240	0.305
GSM_High	0.242	0.310
EDGE_Low_8PSK	0.241	0.313
EDGE_Middle_8PSK	0.241	0.311
EDGE_High_8PSK	0.242	0.309

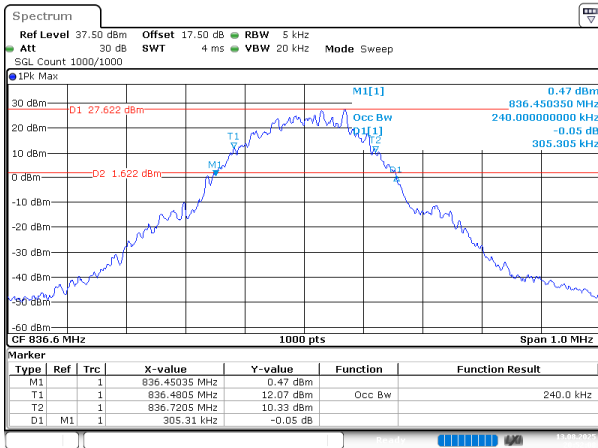
GSM 850, Normal

GSM_Low



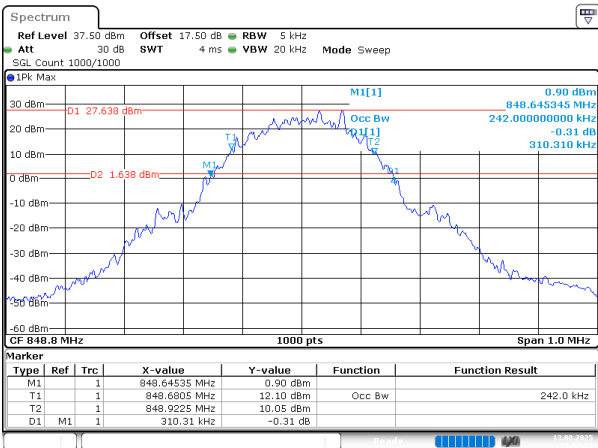
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GSM_Middle



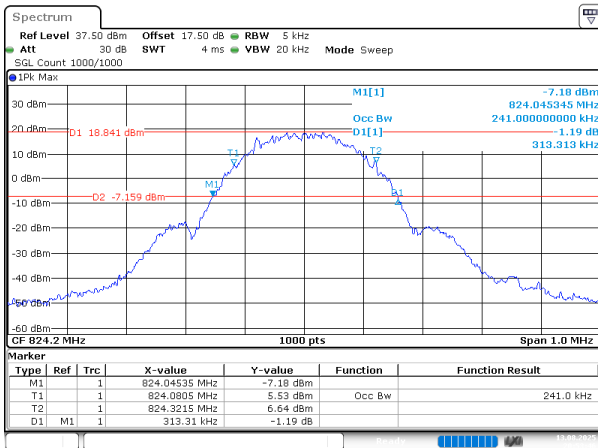
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GSM_High



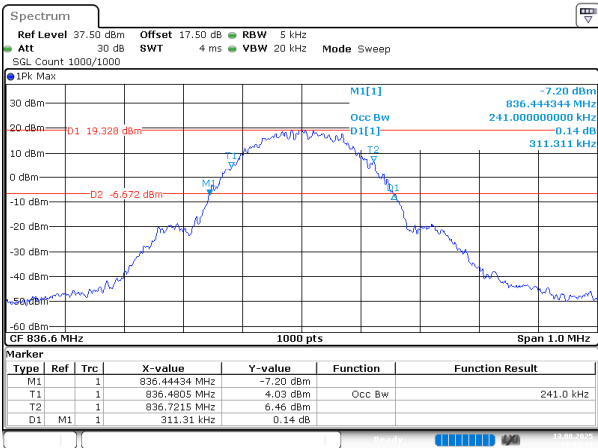
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EDGE_Low_8PSK



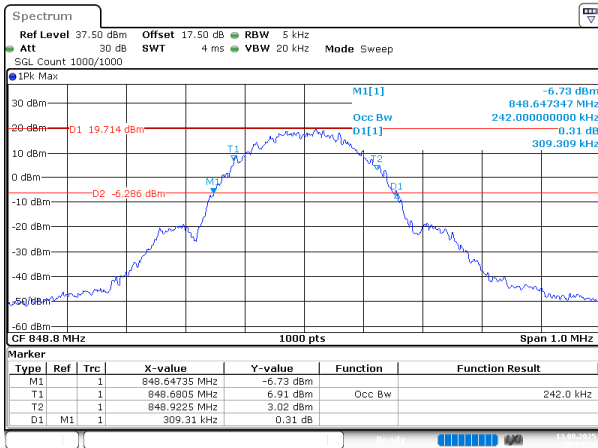
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EDGE_Middle_8PSK



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EDGE_High_8PSK



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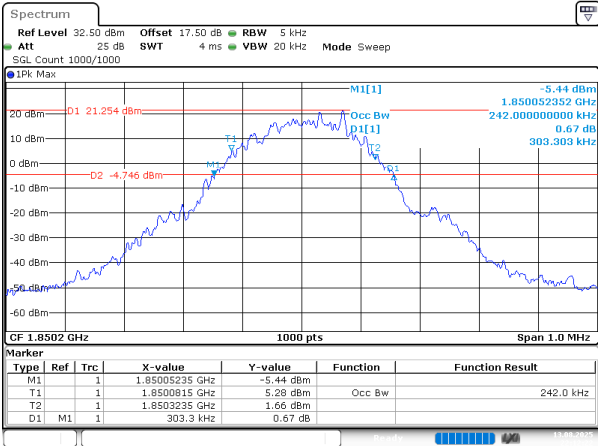
FCC Part 24E&IC RSS 133

GSM 1900, Normal

Mode	99% OBW (MHz)	26dB BW (MHz)
GSM_Low	0.242	0.303
GSM_Middle	0.242	0.310
GSM_High	0.242	0.311
EDGE_Low_8PSK	0.243	0.311
EDGE_Middle_8PSK	0.242	0.303
EDGE_High_8PSK	0.245	0.299

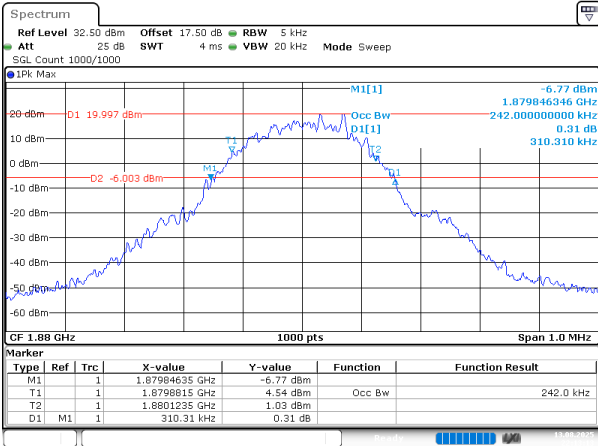
GSM 1900, Normal

GSM_Low



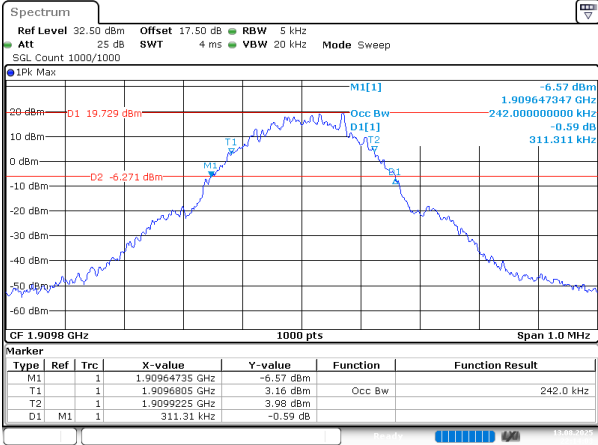
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GSM_Middle



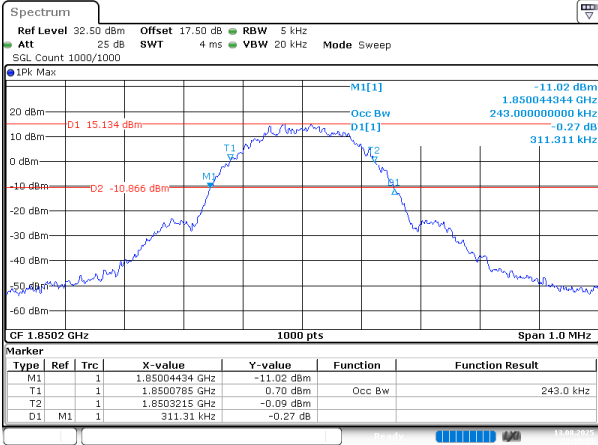
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GSM_High



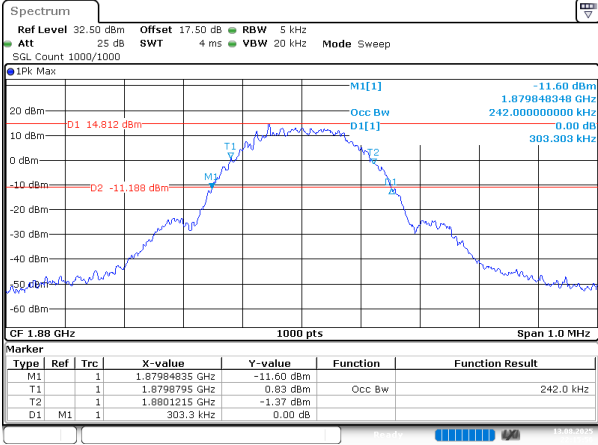
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EDGE_Low_8PSK



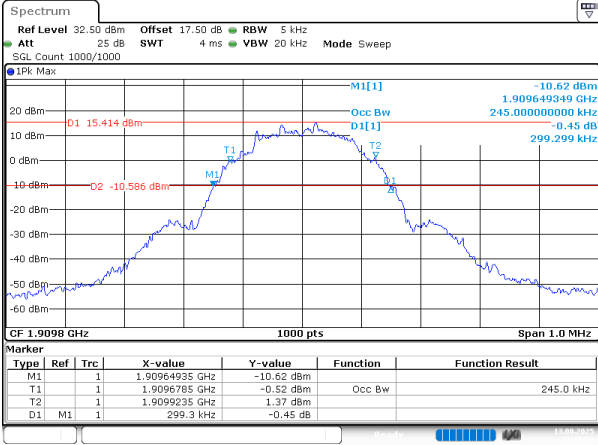
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EDGE_Middle_8PSK



ProjectNo.:2502V07229E-RF Tester:Permin Fu
Date: 13.AUG.2025 22:15:56

EDGE_High_8PSK



ProjectNo.:2502V07229E-RF Tester:Permin Fu
Date: 13.AUG.2025 22:19:50

RF Output Power

FCC Part 22H&IC RSS 132

GSM 850, Normal

Mode	Average Conducted Power (dBm)	ERP (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Verdict
GSM_Low	32.36	26.10	38.45	34.77	Pass
GSM_Middle	32.24	25.98	38.45	34.77	Pass
GSM_High	32.25	25.99	38.45	34.77	Pass
GPRS_Low_Slot1	32.36	26.10	38.45	34.77	Pass
GPRS_Low_Slot2	30.01	23.75	38.45	34.77	Pass
GPRS_Low_Slot3	27.99	21.73	38.45	34.77	Pass
GPRS_Low_Slot4	25.84	19.58	38.45	34.77	Pass
GPRS_Middle_Slot1	32.24	25.98	38.45	34.77	Pass
GPRS_Middle_Slot2	29.91	23.65	38.45	34.77	Pass
GPRS_Middle_Slot3	27.90	21.64	38.45	34.77	Pass
GPRS_Middle_Slot4	25.73	19.47	38.45	34.77	Pass
GPRS_High_Slot1	32.25	25.99	38.45	34.77	Pass
GPRS_High_Slot2	29.81	23.55	38.45	34.77	Pass
GPRS_High_Slot3	27.75	21.49	38.45	34.77	Pass
GPRS_High_Slot4	25.58	19.32	38.45	34.77	Pass
EDGE_Low_Slot1	25.22	18.96	38.45	34.77	Pass
EDGE_Low_Slot2	24.82	18.56	38.45	34.77	Pass
EDGE_Low_Slot3	23.43	17.17	38.45	34.77	Pass
EDGE_Low_Slot4	21.14	14.88	38.45	34.77	Pass
EDGE_Middle_Slot1	25.14	18.88	38.45	34.77	Pass
EDGE_Middle_Slot2	24.78	18.52	38.45	34.77	Pass
EDGE_Middle_Slot3	23.36	17.10	38.45	34.77	Pass
EDGE_Middle_Slot4	21.14	14.88	38.45	34.77	Pass
EDGE_High_Slot1	24.98	18.72	38.45	34.77	Pass
EDGE_High_Slot2	24.60	18.34	38.45	34.77	Pass
EDGE_High_Slot3	23.18	16.92	38.45	34.77	Pass
EDGE_High_Slot4	21.08	14.82	38.45	34.77	Pass

Note:
ERP = Average Conducted Power(dBm) + Antenna Gain(dBd) - Cable Loss(dB)
Antenna Gain(dBd) = Antenna Gain(dBi) - 2.15
1.Antenna Gain = -4.01dBi;
2.Cable Loss = 0.1dB.

FCC Part 24E&IC RSS 133

GSM 1900, Normal

Mode	Average Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
GSM_Low	29.21	28.71	33	Pass
GSM_Middle	29.34	28.84	33	Pass
GSM_High	29.03	28.53	33	Pass
GPRS_Low_Slot1	29.24	28.74	33	Pass
GPRS_Low_Slot2	26.42	25.92	33	Pass
GPRS_Low_Slot3	24.77	24.27	33	Pass
GPRS_Low_Slot4	22.69	22.19	33	Pass
GPRS_Middle_Slot1	29.39	28.89	33	Pass
GPRS_Middle_Slot2	26.30	25.80	33	Pass
GPRS_Middle_Slot3	24.70	24.20	33	Pass
GPRS_Middle_Slot4	22.56	22.06	33	Pass
GPRS_High_Slot1	29.09	28.59	33	Pass
GPRS_High_Slot2	25.97	25.47	33	Pass
GPRS_High_Slot3	24.37	23.87	33	Pass
GPRS_High_Slot4	22.22	21.72	33	Pass
EDGE_Low_Slot1	24.74	24.24	33	Pass
EDGE_Low_Slot2	24.40	23.90	33	Pass
EDGE_Low_Slot3	22.61	22.11	33	Pass
EDGE_Low_Slot4	20.75	20.25	33	Pass
EDGE_Middle_Slot1	24.61	24.11	33	Pass
EDGE_Middle_Slot2	24.35	23.85	33	Pass
EDGE_Middle_Slot3	23.16	22.66	33	Pass
EDGE_Middle_Slot4	21.28	20.78	33	Pass
EDGE_High_Slot1	24.56	24.06	33	Pass
EDGE_High_Slot2	24.37	23.87	33	Pass
EDGE_High_Slot3	22.67	22.17	33	Pass
EDGE_High_Slot4	20.54	20.04	33	Pass

Note:
EIRP = Average Conducted Power(dBm) + Antenna Gain(dBi) - Cable Loss(dB)
1.Antenna Gain = -0.3dBi;
2.Cable Loss = 0.2dB.

Peak-to-average Ratio(PAR)

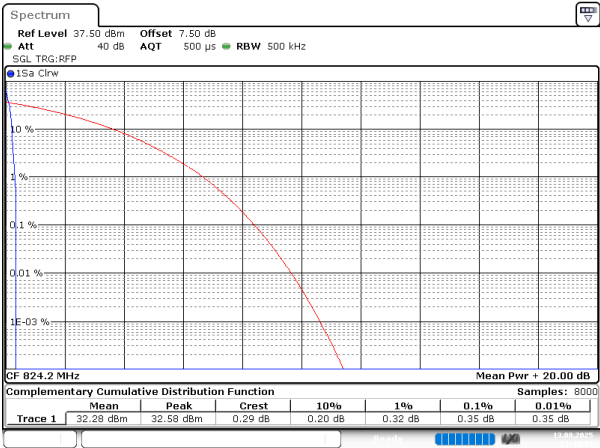
FCC Part 22H&IC RSS 132

GSM 850, Normal

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

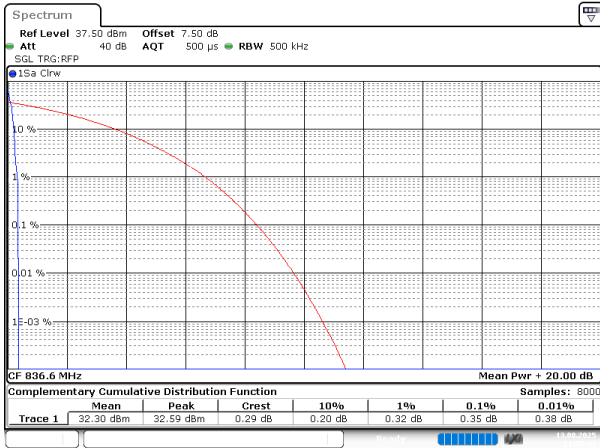
GSM 850, Normal

GSM_Low



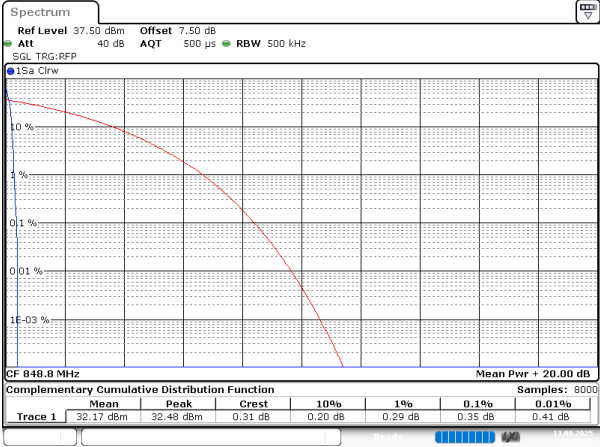
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GSM_Middle



ProjectNo.:2502V07229E-RF Tester:Permin Fu
Date: 13.AUG.2025 21:50:41

GSM_High



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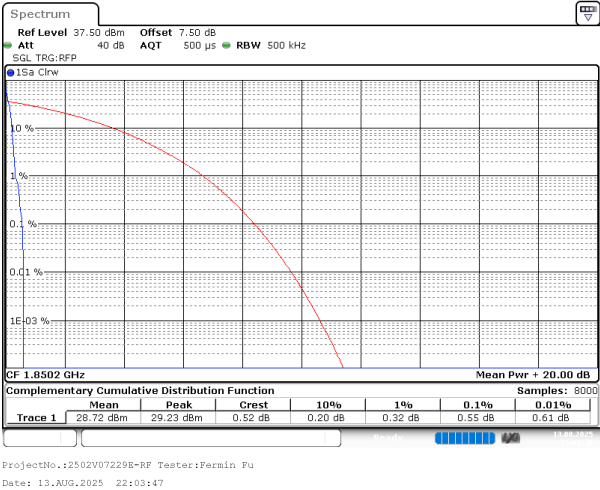
FCC Part 24E&IC RSS 133

GSM 1900, Normal

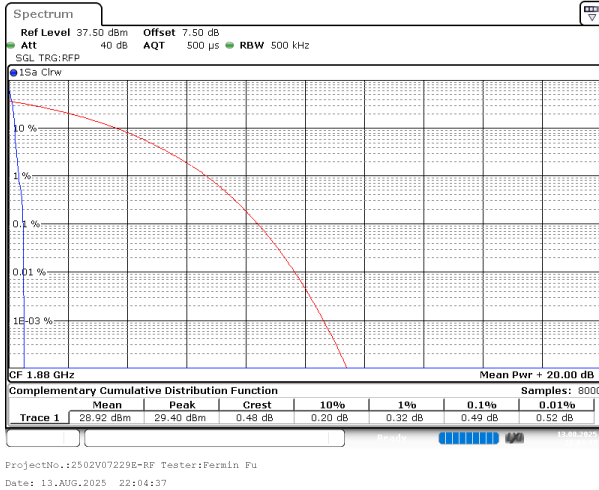
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GSM_Middle	0.49	13
GSM_High	0.46	13

GSM 1900, Normal

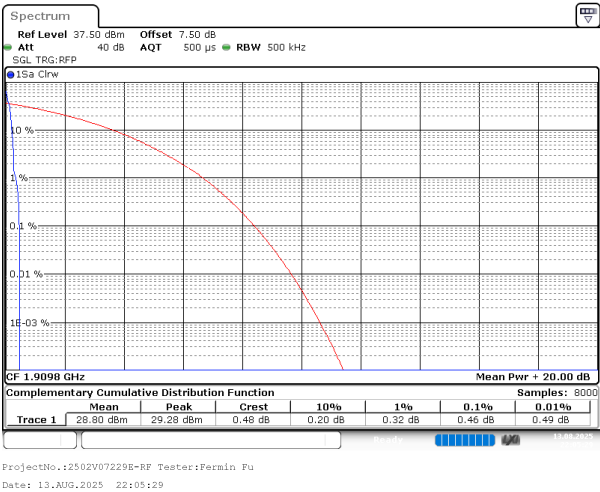
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GSM_Middle



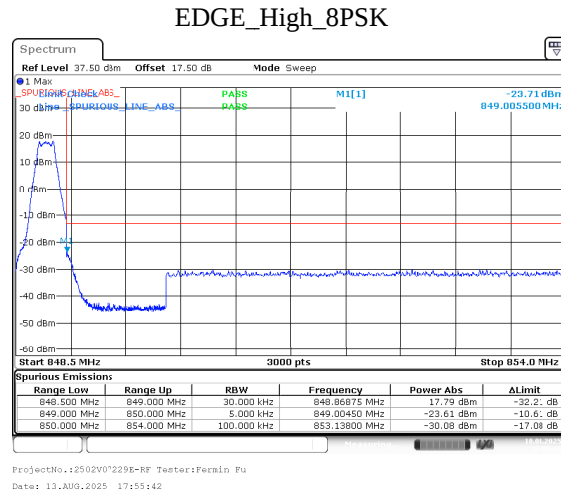
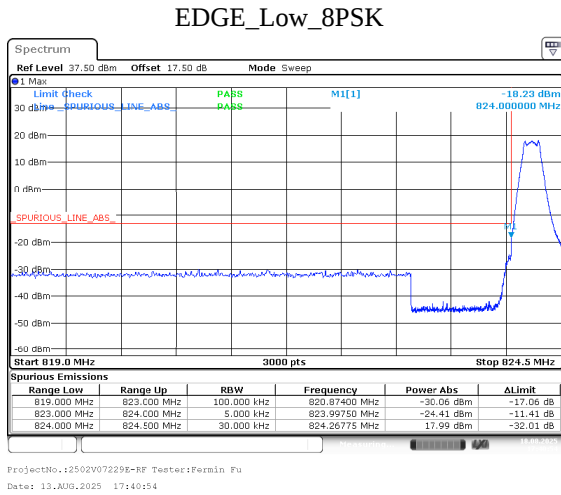
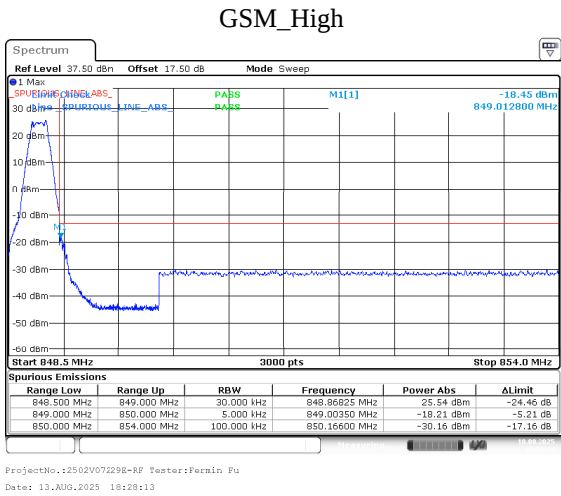
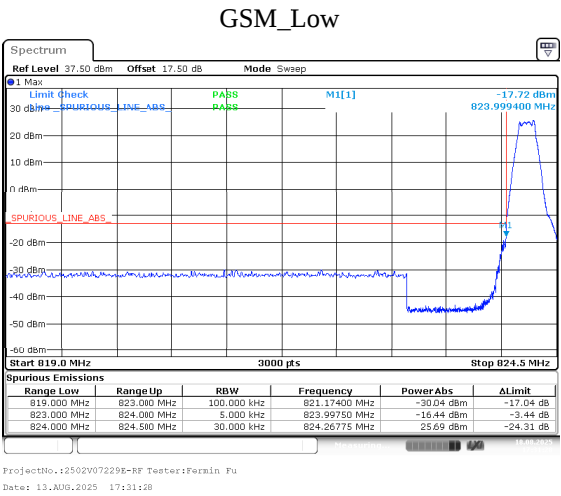
GSM_High



Out of band emission,Band Edge

FCC Part 22H&IC RSS 132

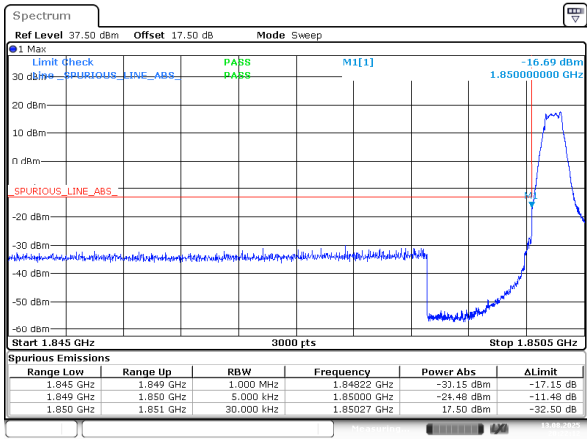
GSM 850, Normal



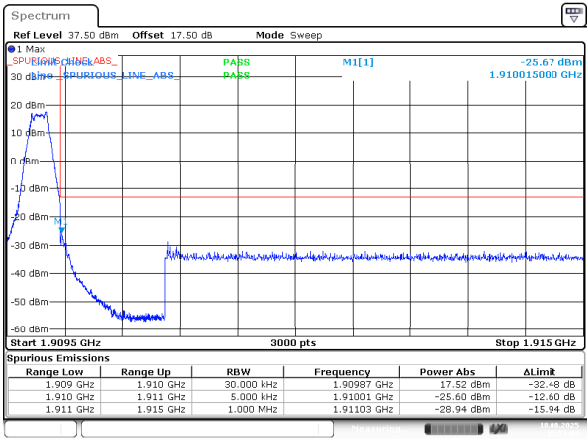
FCC Part 24E&IC RSS 133

GSM 1900, Normal

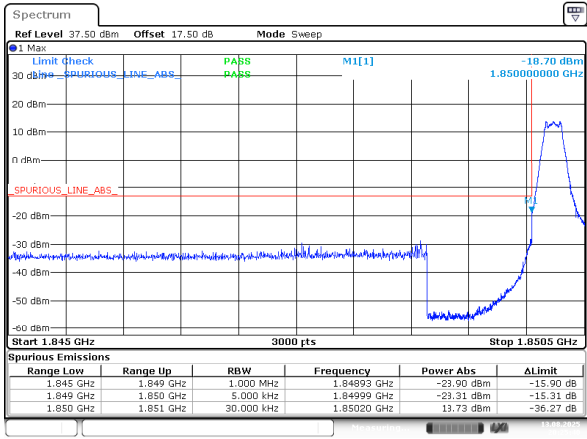
GSM_Low



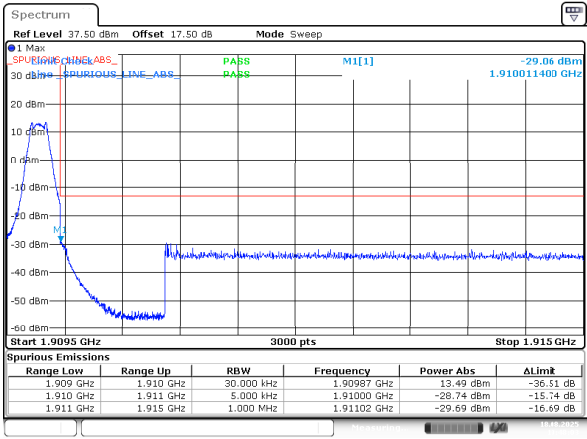
GSM_High



EDGE_Low_8PSK



EDGE_High_8PSK

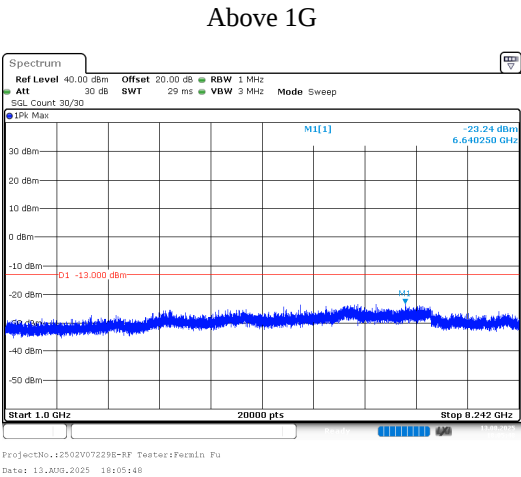
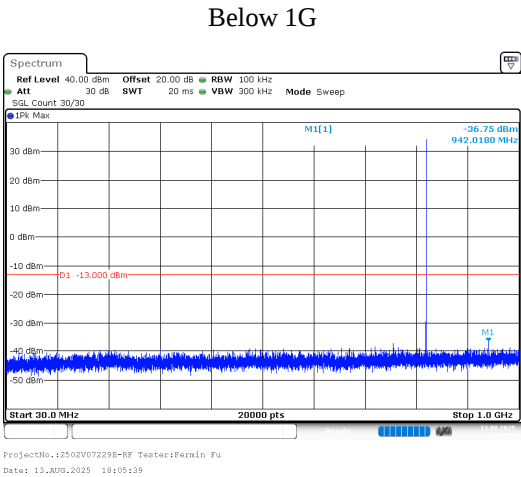


Spurious Emissions at Antenna Terminal

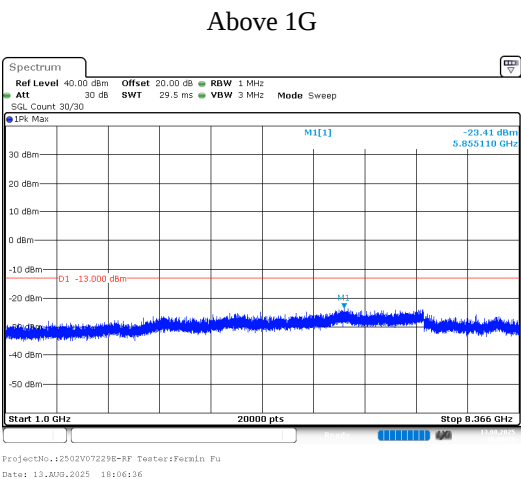
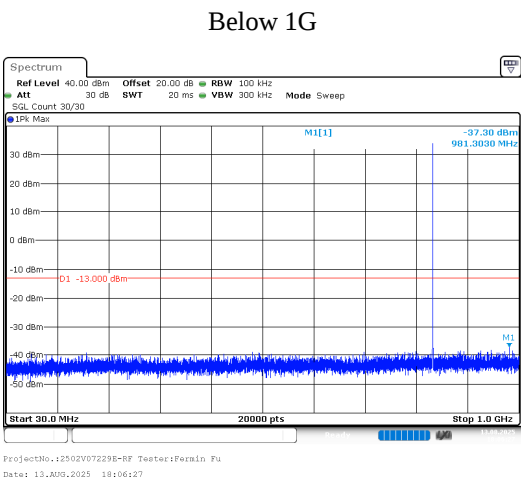
Note: the maximum offset setting is applied to configure conducted spurious emissions testing.

FCC Part 22H&IC RSS 132
GSM 850, Normal

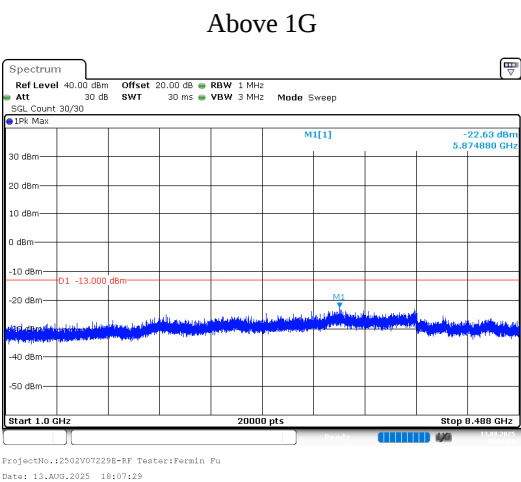
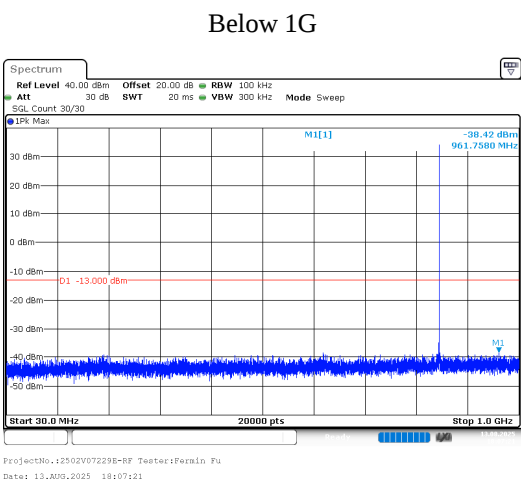
GSM_Low



GSM_Middle



GSM_High

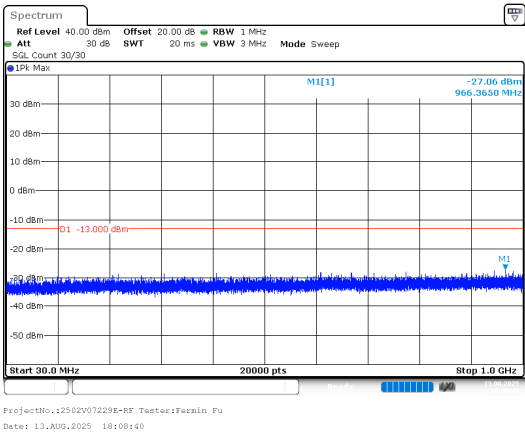


FCC Part 24E&IC RSS 133

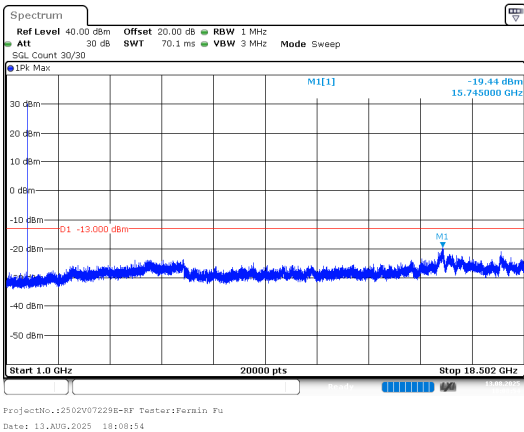
GSM 1900, Normal

GSM_Low

Below 1G

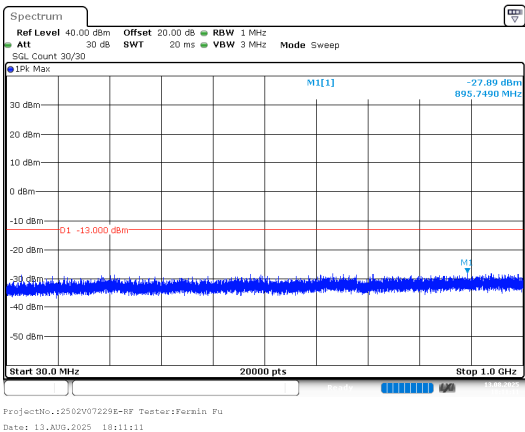


Above 1G

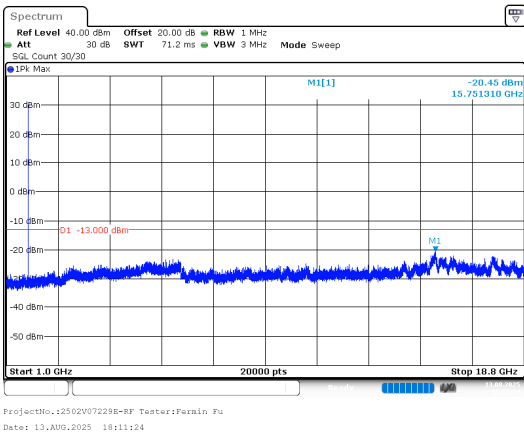


GSM_Middle

Below 1G

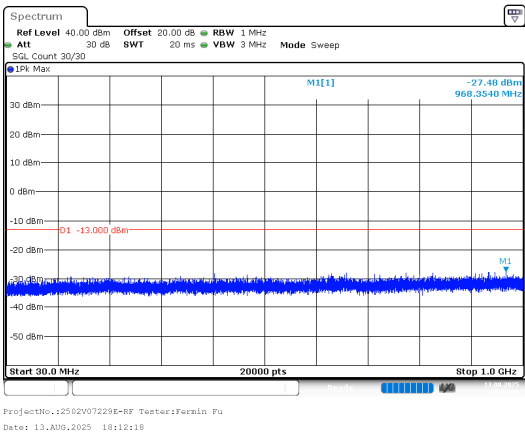


Above 1G

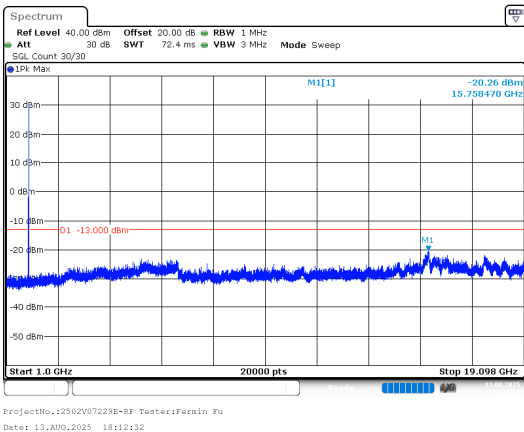


GSM_High

Below 1G



Above 1G



***** END *****