Appendix B

GSM 850 & 1900

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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.54	23.43	38.45	PASS
GSM850	190	---	33.57	23.46	38.45	PASS
GSM850	251	---	33.64	23.53	38.45	PASS
EGPRS850	128	1	27.95	17.84	38.45	PASS
EGPRS850	128	2	27.04	16.93	38.45	PASS
EGPRS850	128	3	25.07	14.96	38.45	PASS
EGPRS850	128	4	23.91	13.8	38.45	PASS
EGPRS850	190	1	27.96	17.85	38.45	PASS
EGPRS850	190	2	27.09	16.98	38.45	PASS
EGPRS850	190	3	25.18	15.07	38.45	PASS
EGPRS850	190	4	25.14	15.03	38.45	PASS
EGPRS850	251	1	27.97	17.86	38.45	PASS
EGPRS850	251	2	27.22	17.11	38.45	PASS
EGPRS850	251	3	25.54	15.43	38.45	PASS
EGPRS850	251	4	25.14	15.03	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.73	26.5	33.00	PASS
GSM1900	661	---	30.91	26.68	33.00	PASS
GSM1900	810	---	30.76	26.53	33.00	PASS
EGPRS1900	512	1	27.28	23.05	33.00	PASS
EGPRS1900	512	2	26.33	22.1	33.00	PASS
EGPRS1900	512	3	25.02	20.79	33.00	PASS
EGPRS1900	512	4	23.59	19.36	33.00	PASS
EGPRS1900	661	1	27.08	22.85	33.00	PASS
EGPRS1900	661	2	26.28	22.05	33.00	PASS
EGPRS1900	661	3	25.07	20.84	33.00	PASS
EGPRS1900	661	4	24.36	20.13	33.00	PASS
EGPRS1900	810	1	27.24	23.01	33.00	PASS
EGPRS1900	810	2	26.36	22.13	33.00	PASS
EGPRS1900	810	3	25.27	21.04	33.00	PASS
EGPRS1900	810	4	23.83	19.6	33.00	PASS

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Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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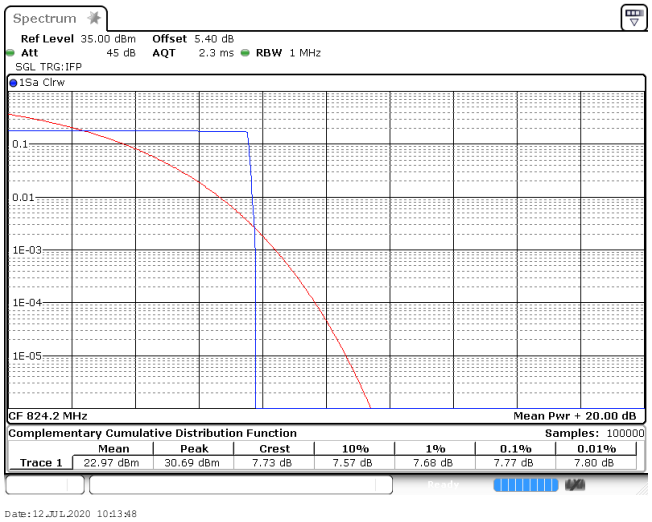
2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.77	13	PASS
GSM850	190	7.80	13	PASS
GSM850	251	7.83	13	PASS
EGPRS850	128	10.35	13	PASS
EGPRS850	190	8.41	13	PASS
EGPRS850	251	8.26	13	PASS
GSM1900	512	7.71	13	PASS
GSM1900	661	7.68	13	PASS
GSM1900	810	7.71	13	PASS
EGPRS1900	512	10.96	13	PASS
EGPRS1900	661	11.01	13	PASS
EGPRS1900	810	10.93	13	PASS

2.2. Part II - Test Plots

GSM850_128



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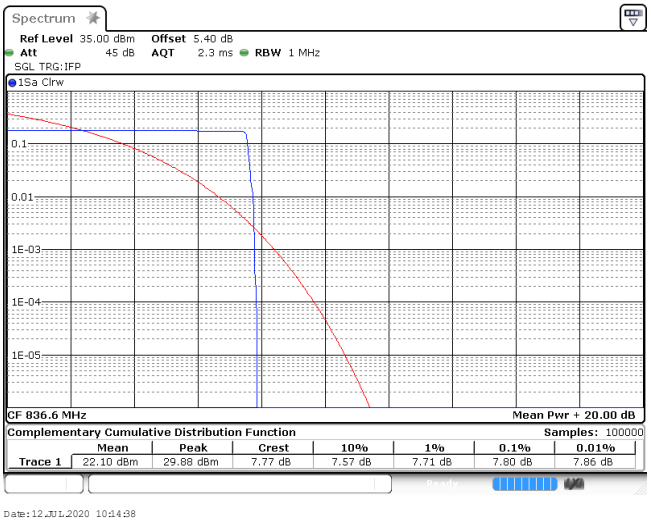

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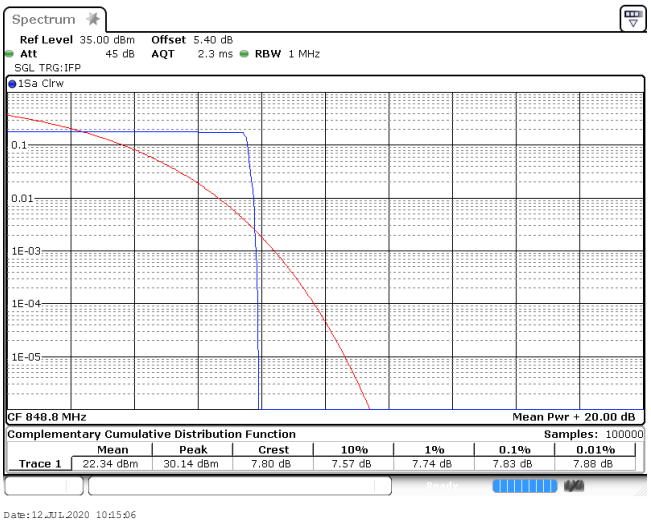

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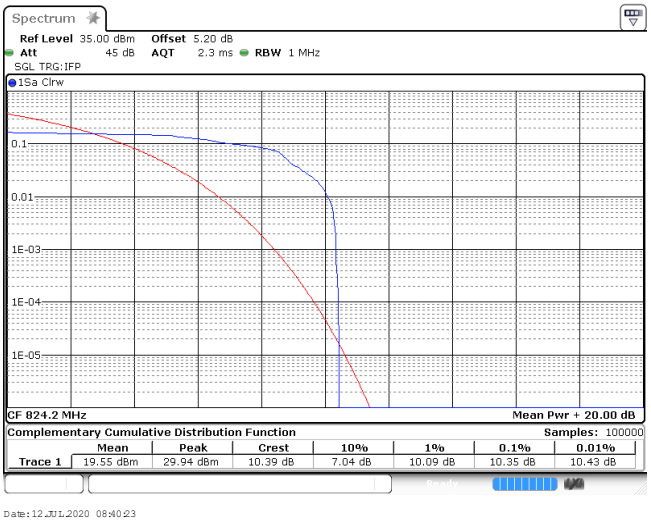

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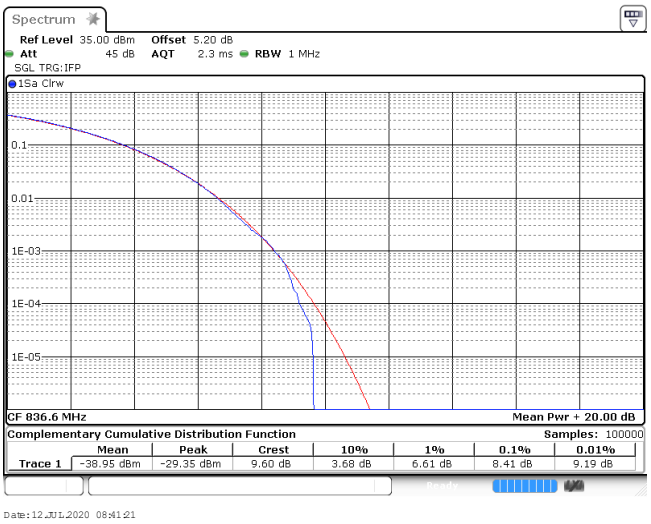

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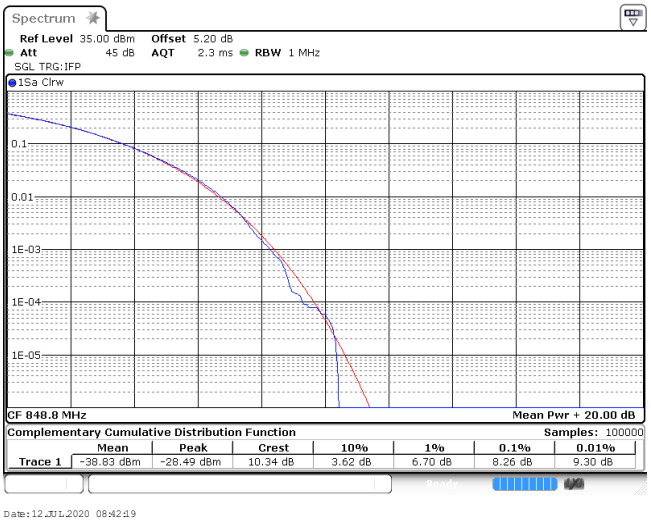

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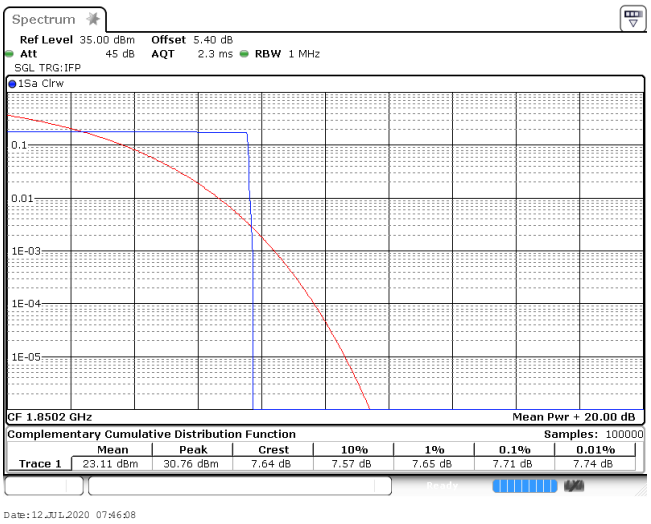

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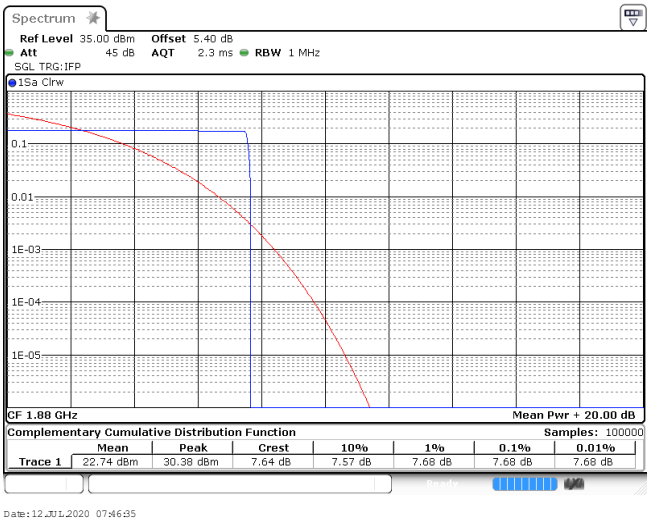

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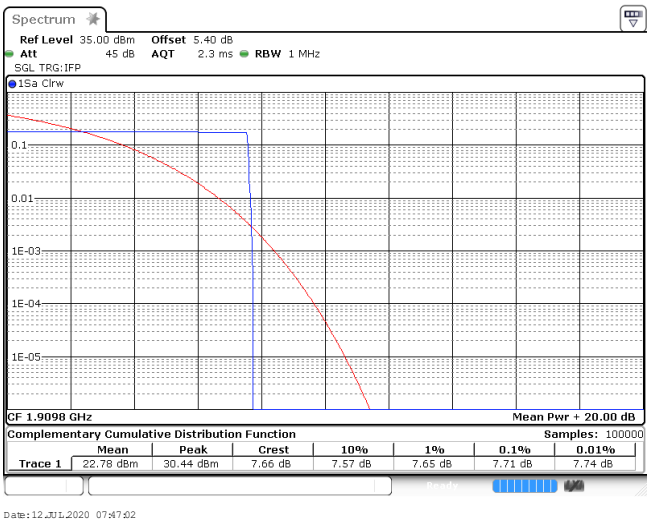

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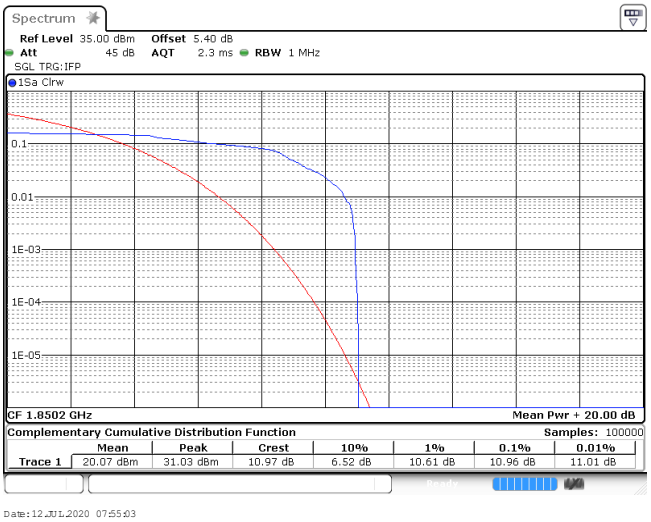

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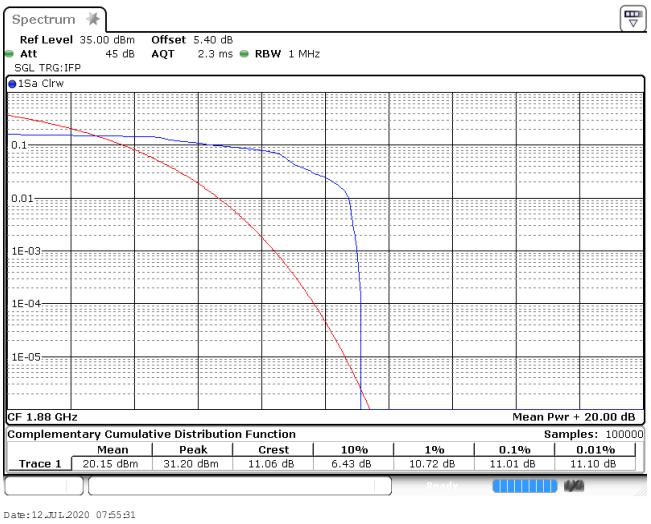

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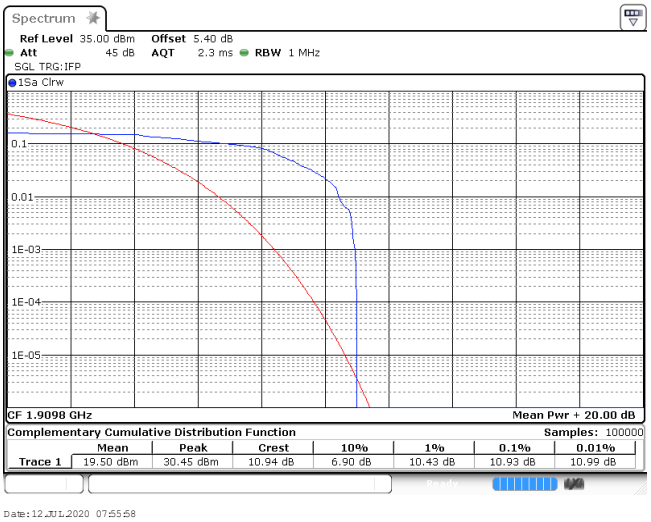

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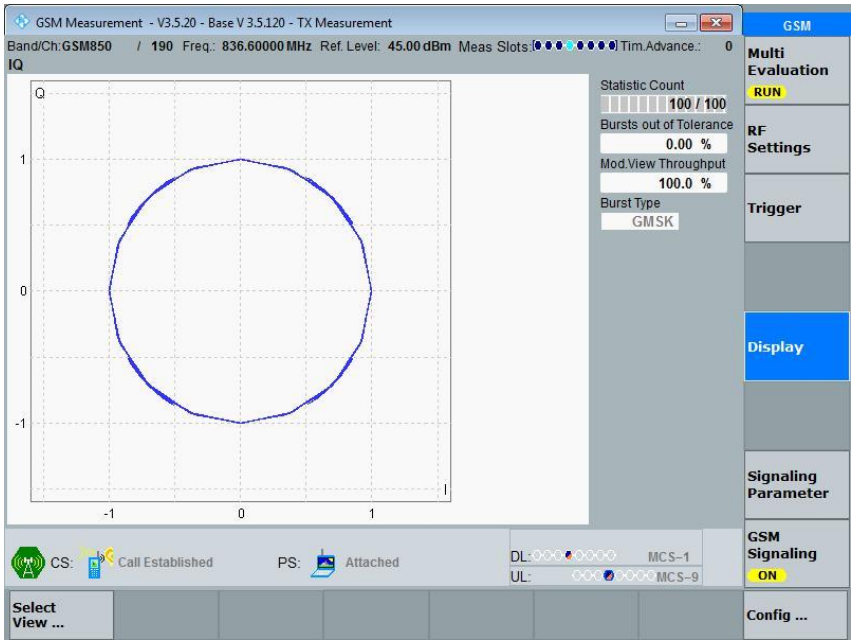
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

3.1.1.1.1. Test Channel = MCH



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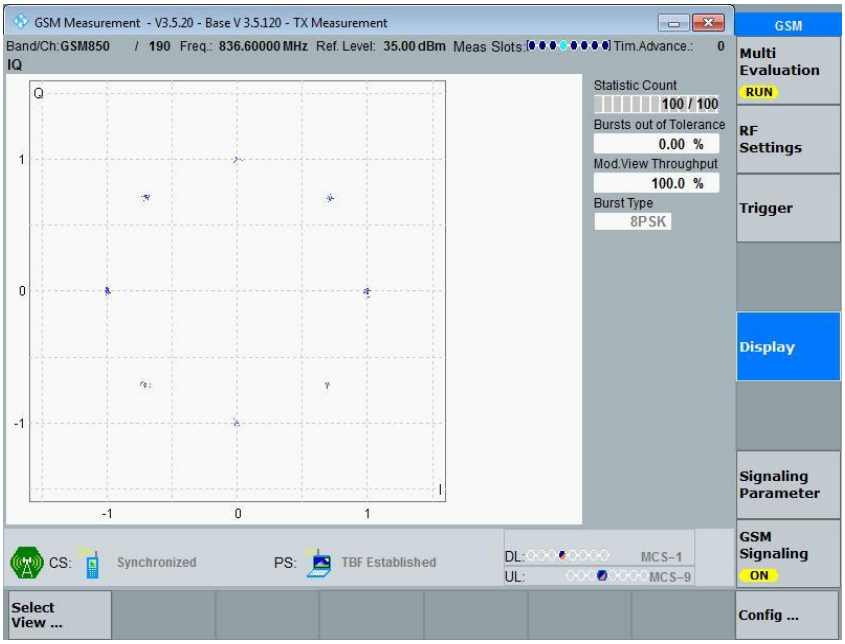
3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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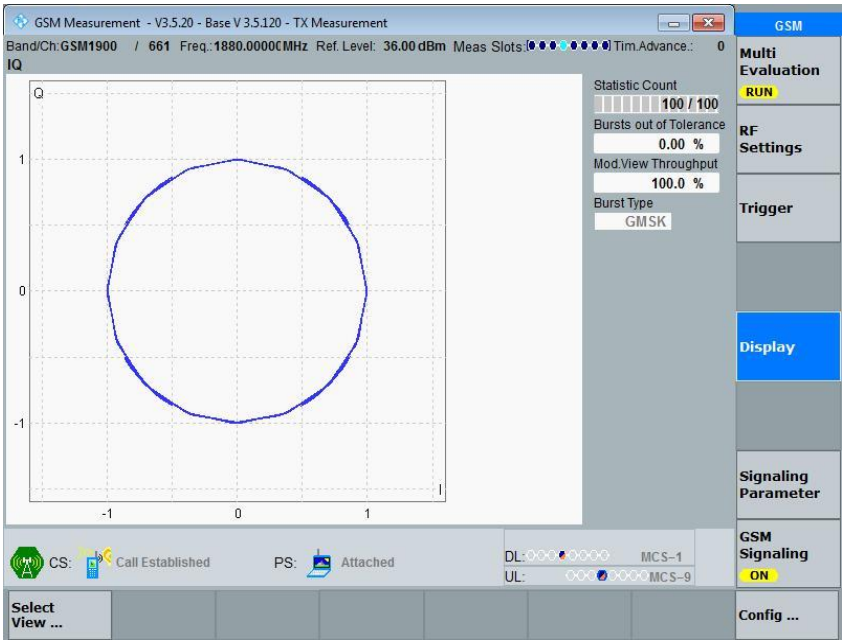
3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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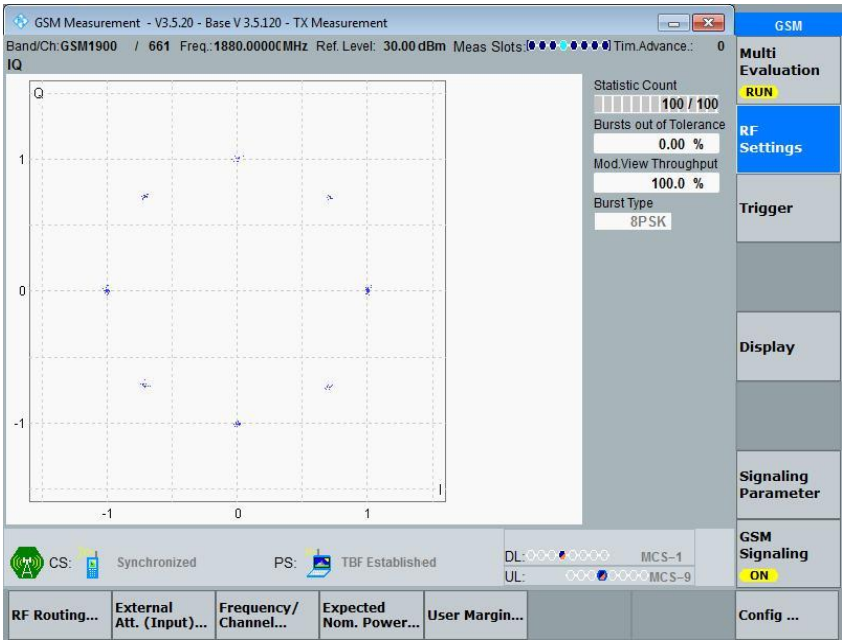
3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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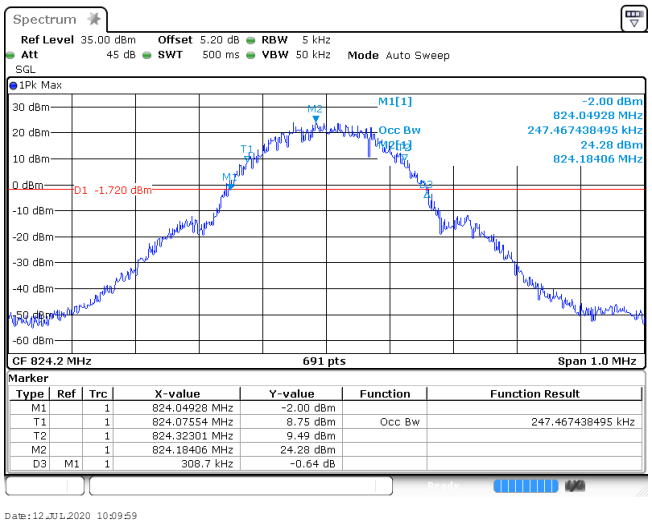
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	247.47	308.70	---	PASS
GSM850	190	246.02	298.55	---	PASS
GSM850	251	244.57	297.10	---	PASS
EGPRS850	128	241.68	291.30	---	PASS
EGPRS850	190	250.36	318.84	---	PASS
EGPRS850	251	254.70	310.14	---	PASS
GSM1900	512	248.91	313.04	---	PASS
GSM1900	661	247.47	310.14	---	PASS
GSM1900	810	246.02	314.49	---	PASS
EGPRS1900	512	250.36	311.59	---	PASS
EGPRS1900	661	251.81	294.20	---	PASS
EGPRS1900	810	248.91	308.70	---	PASS

4.2. Test Plots

GSM850_128



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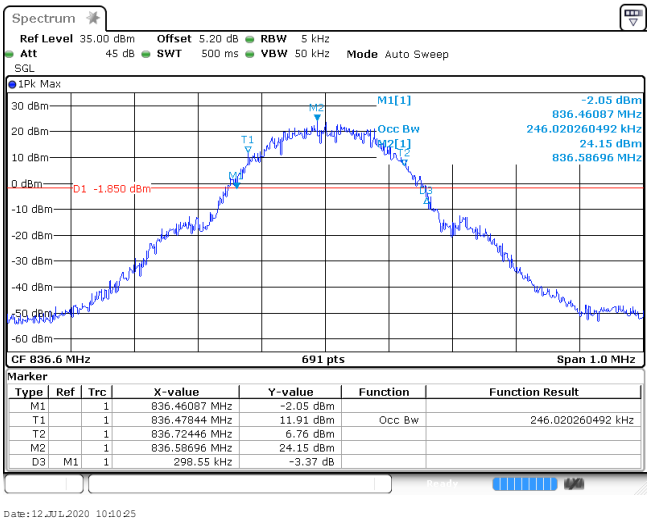

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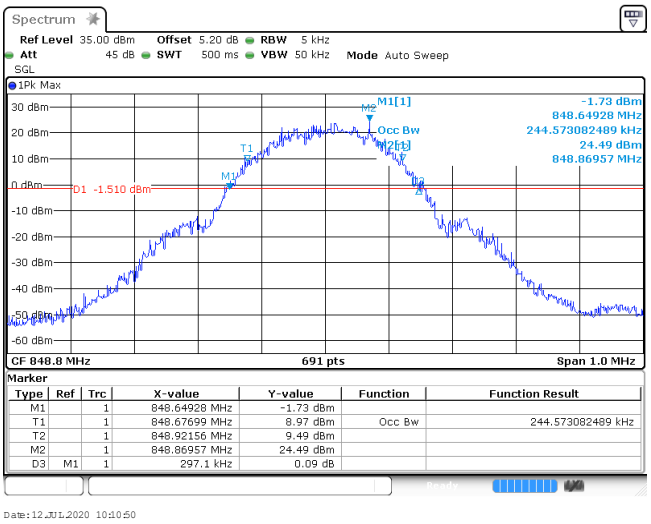

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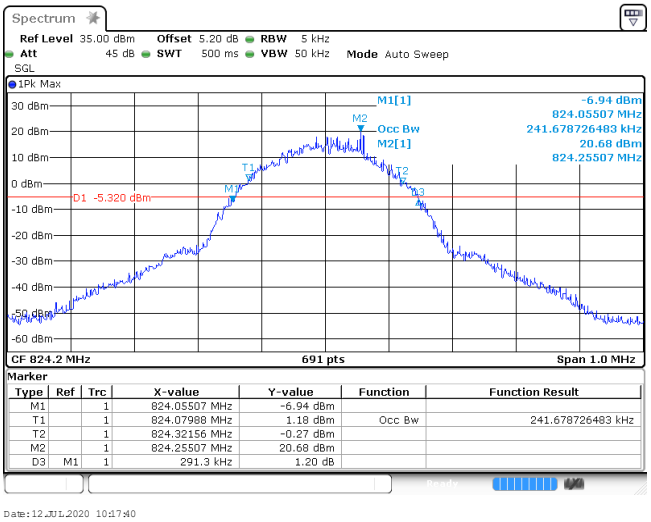

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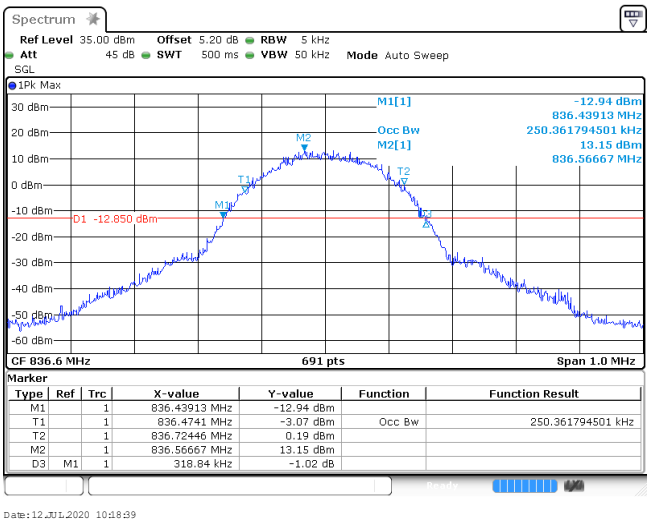

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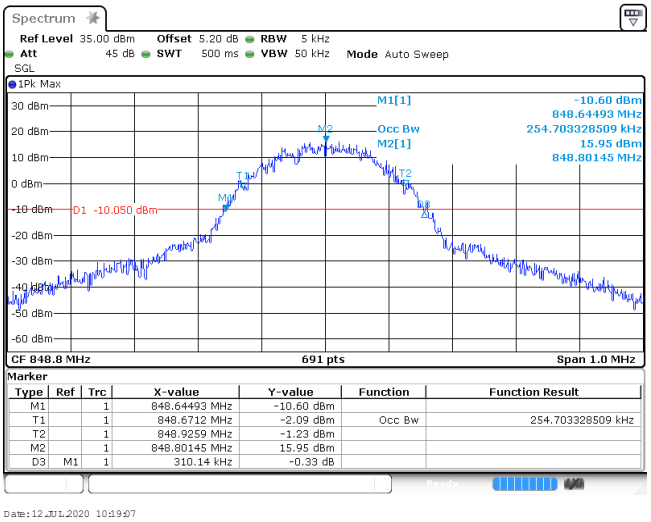

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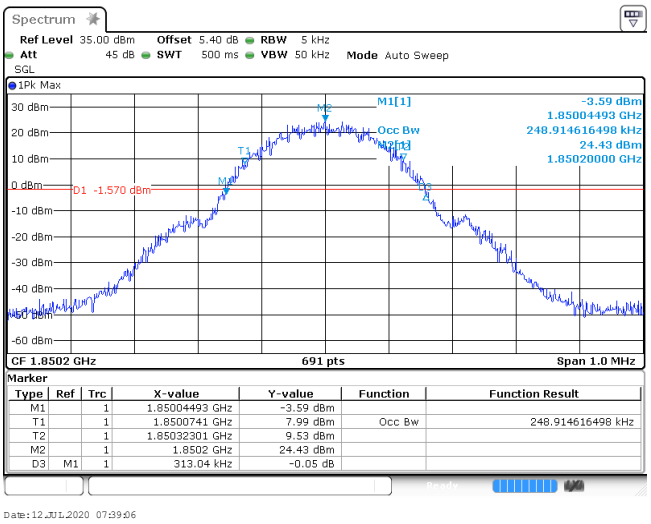

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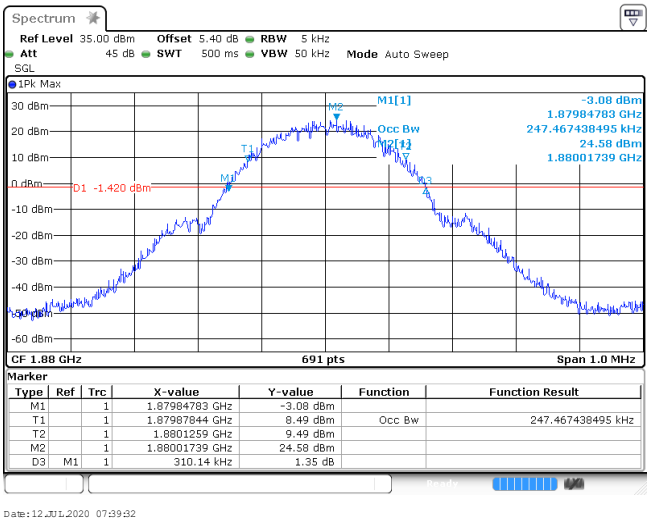

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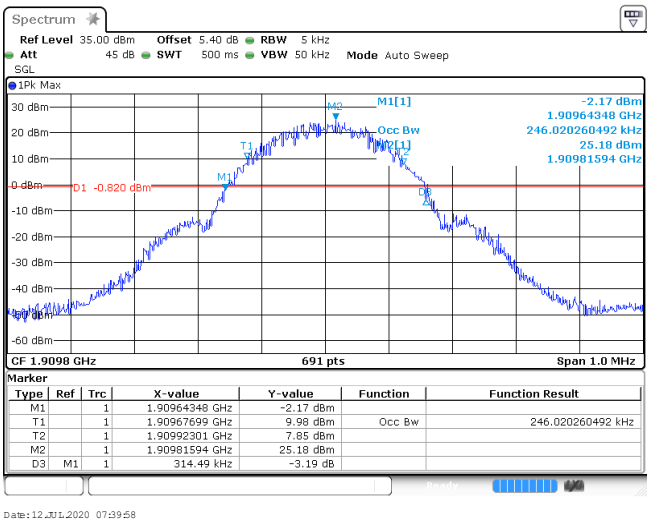

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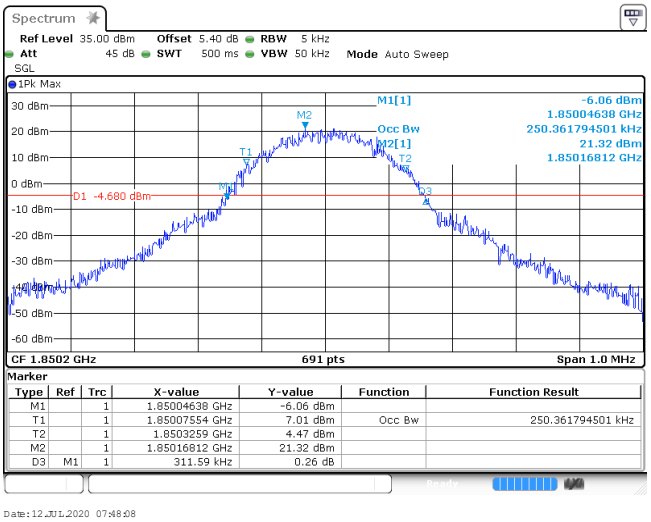

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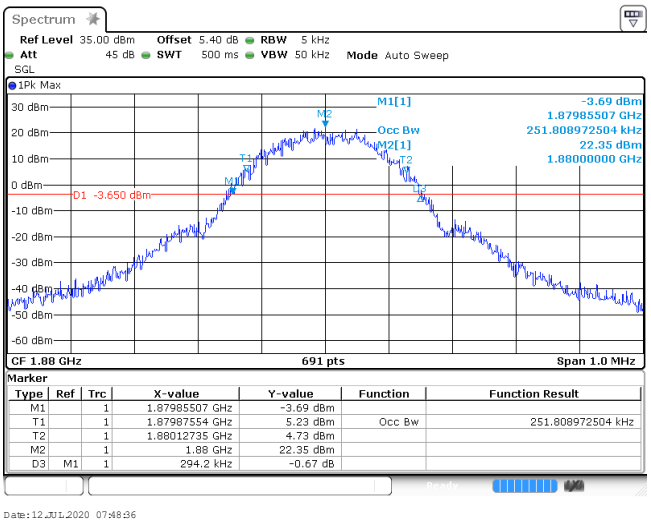

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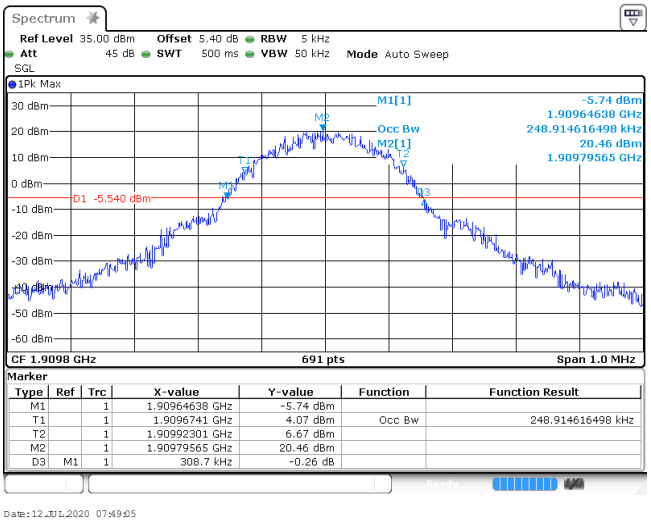

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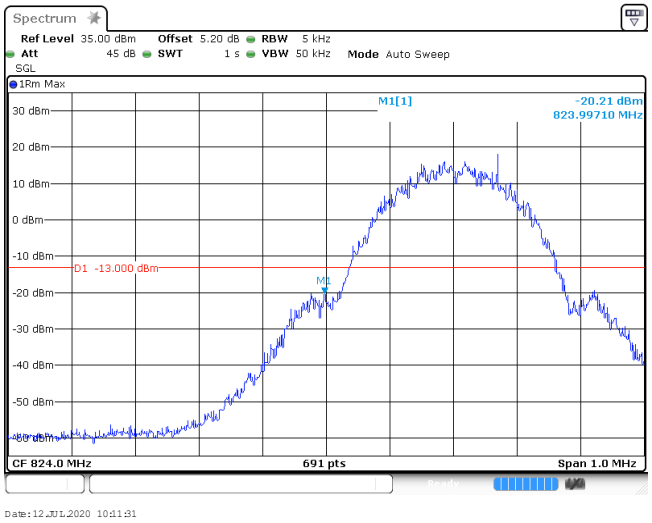
5. Band Edge Compliance

5.1. Test Plots

GSM850_128



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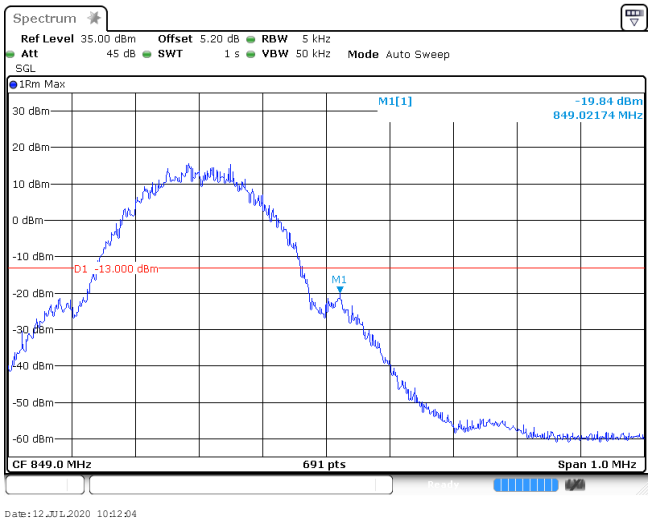

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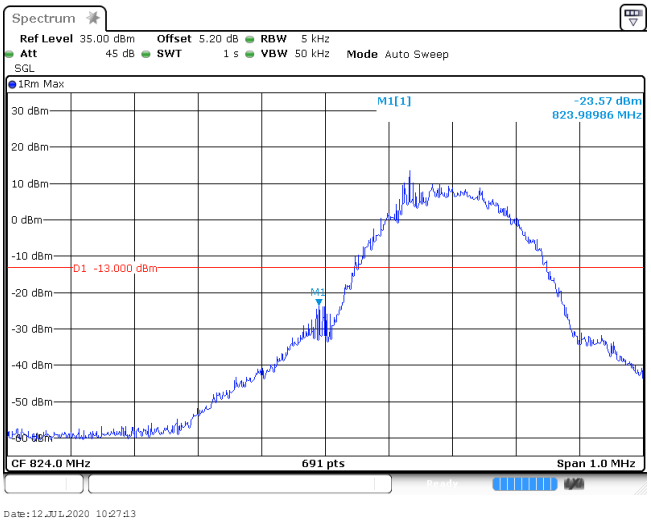

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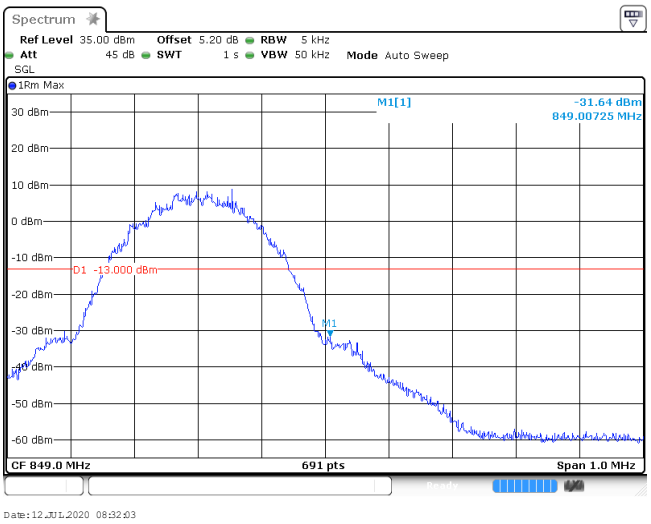

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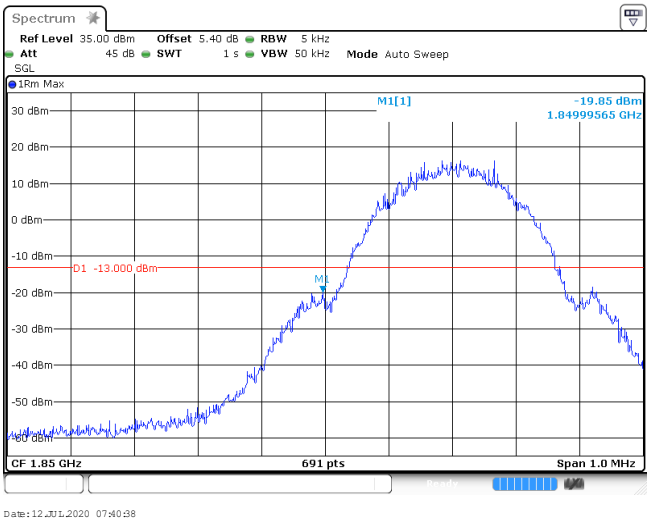
GSM1900_512



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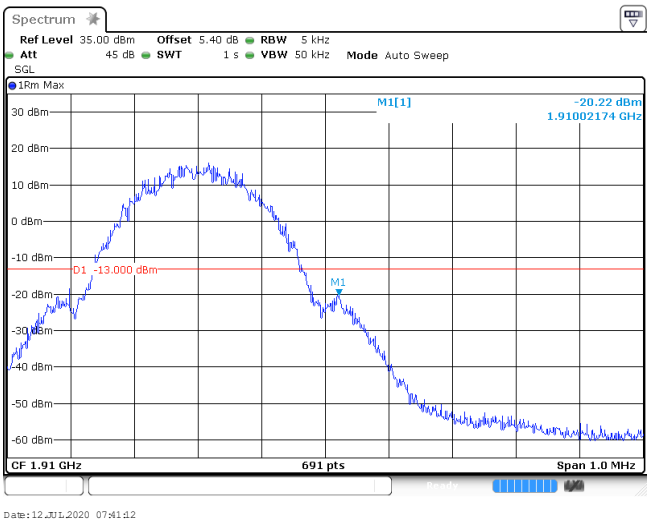

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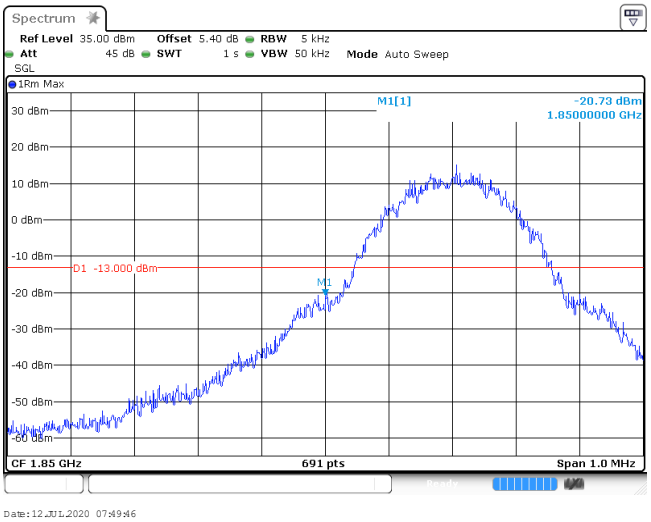

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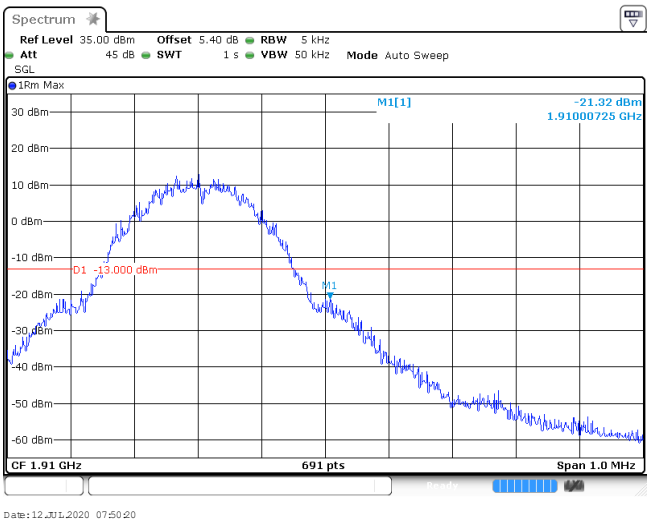

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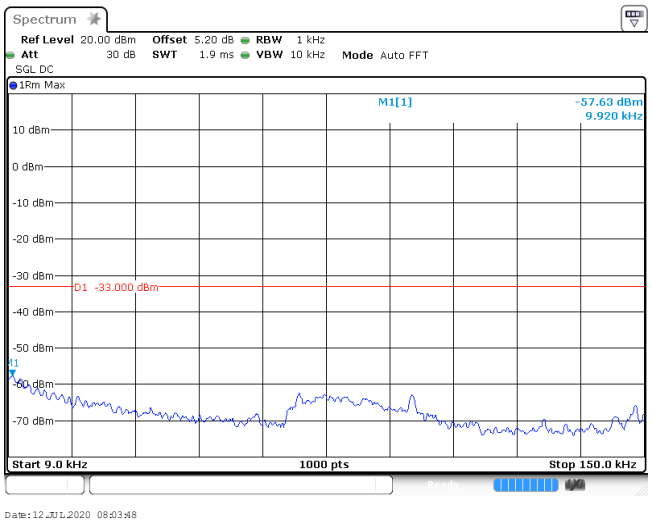
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

GSM850_128



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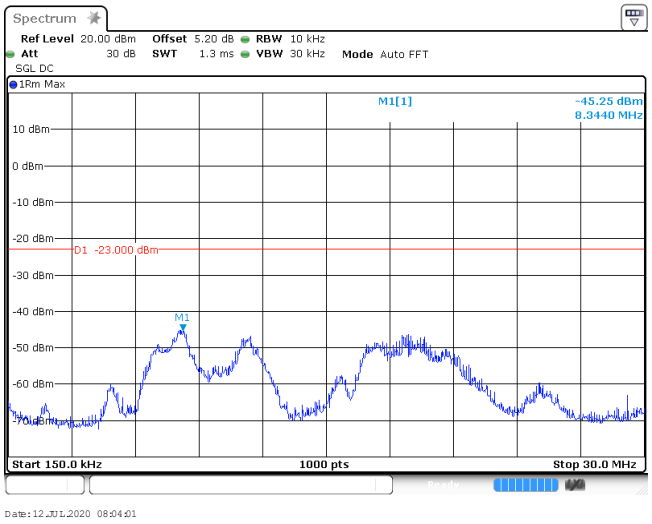

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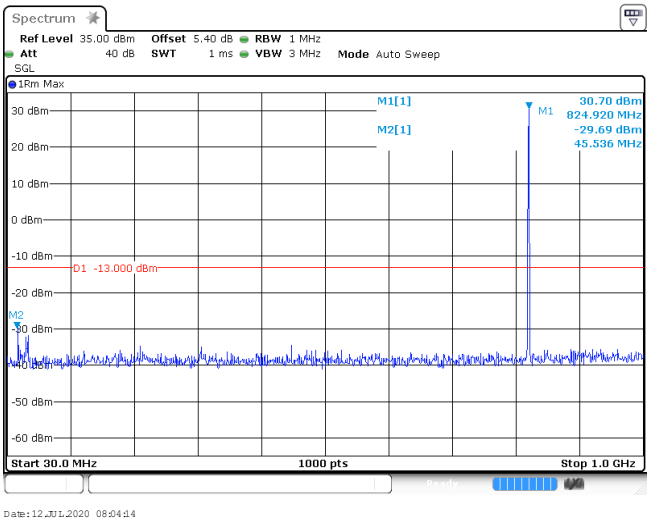

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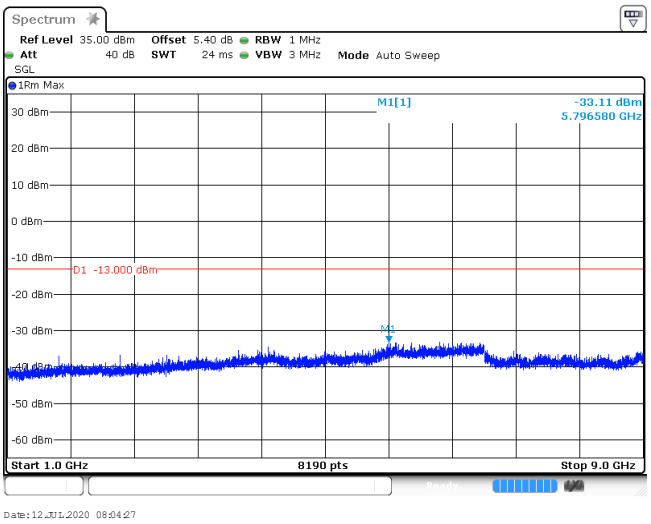

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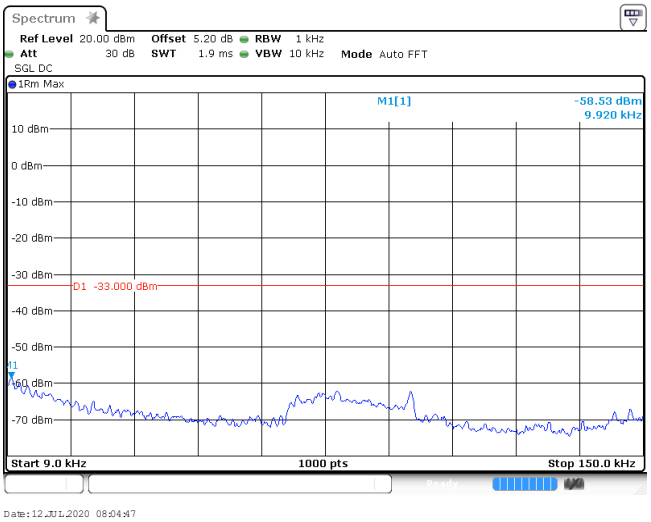
GSM850_190



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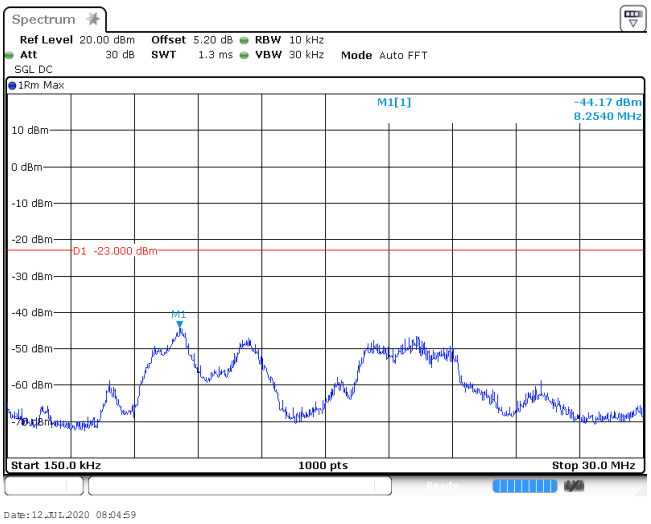

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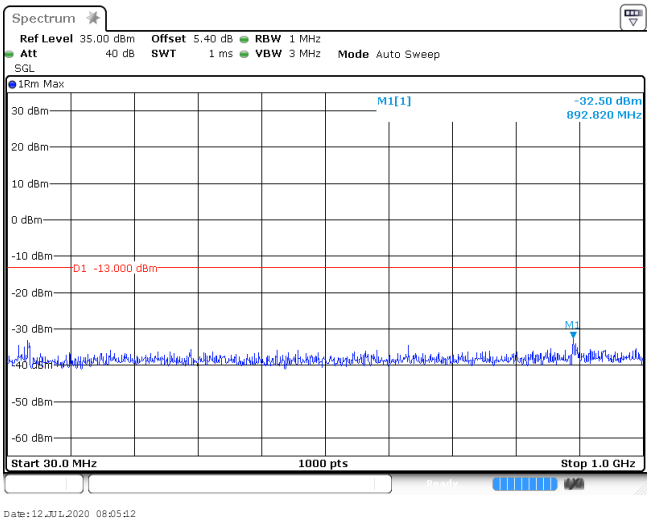

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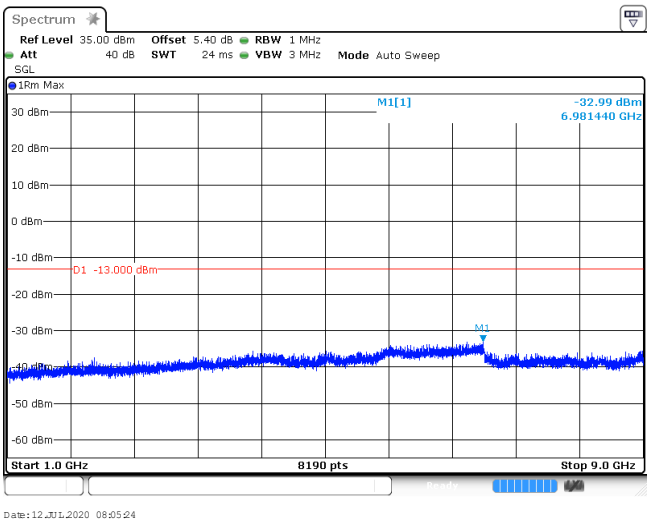

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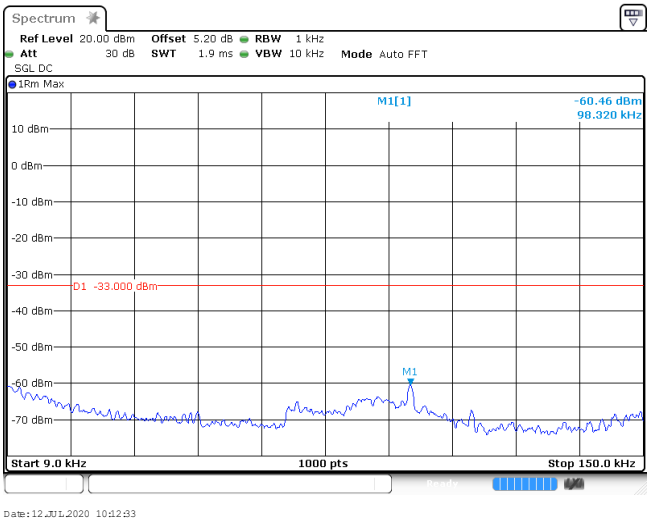

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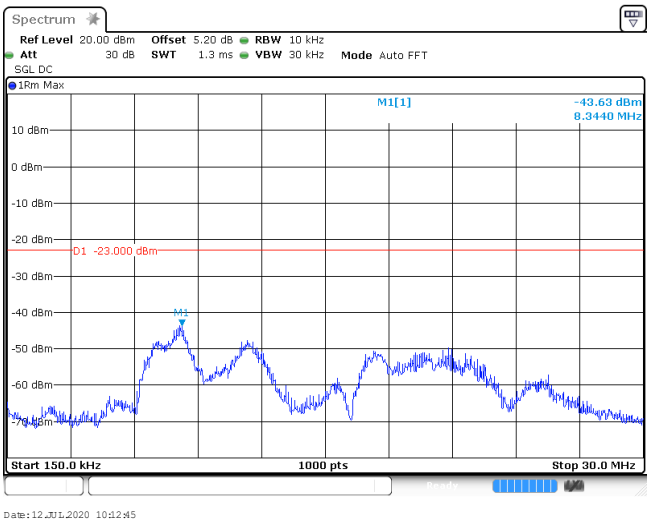

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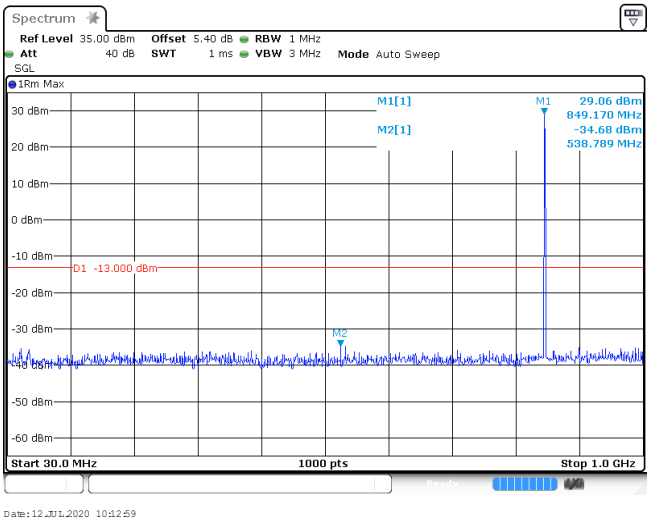

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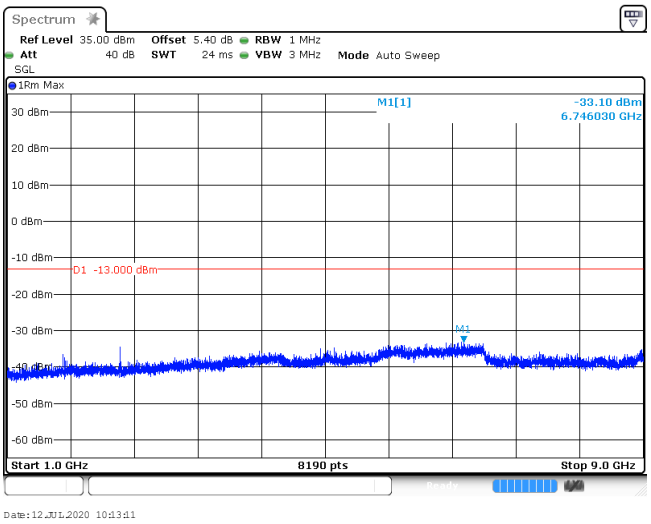

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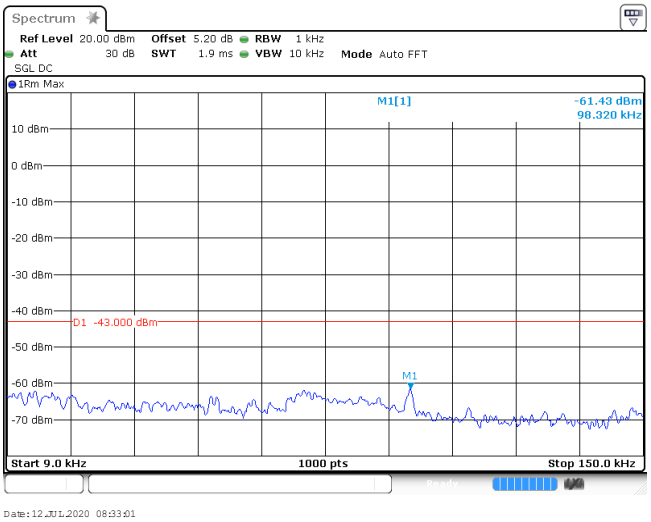

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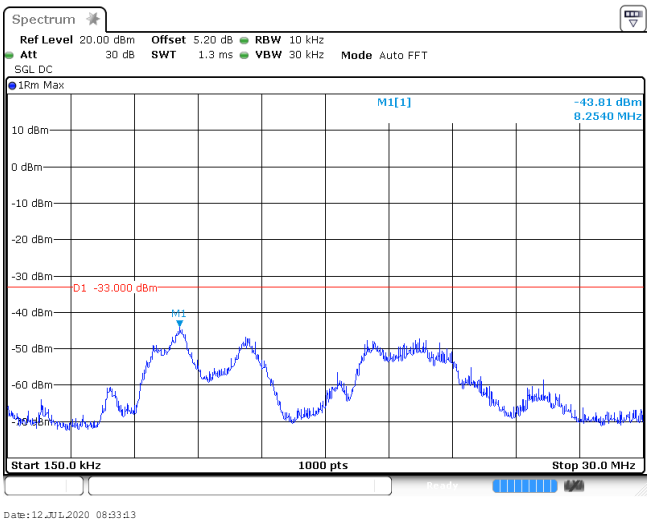

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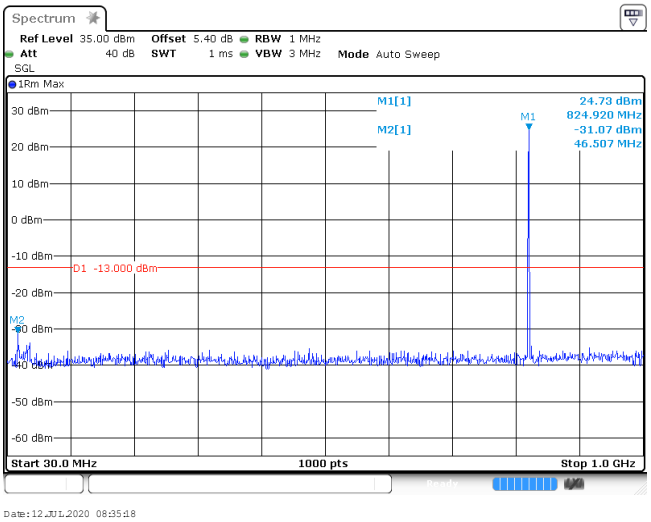

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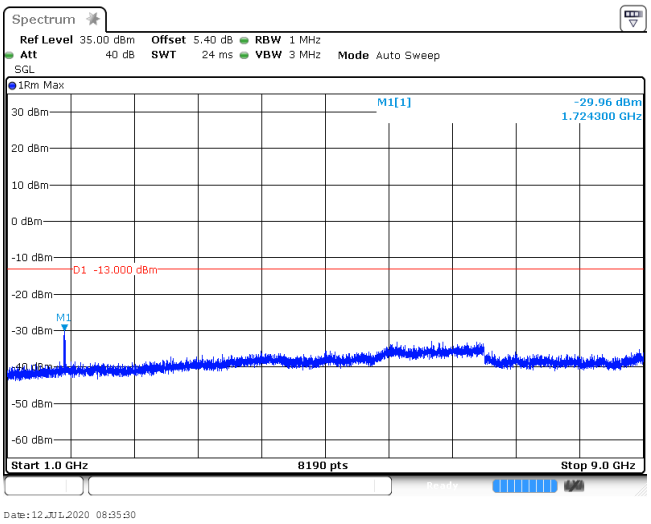

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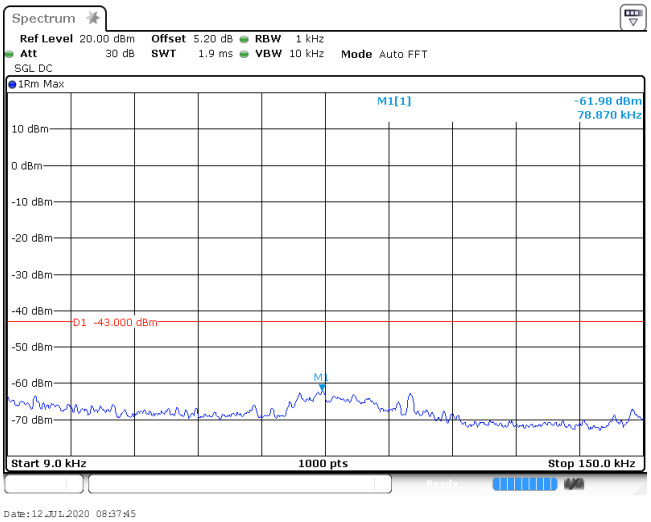

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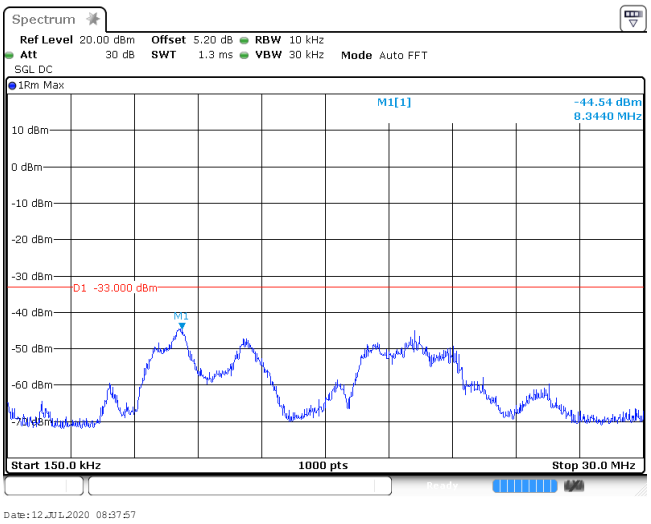

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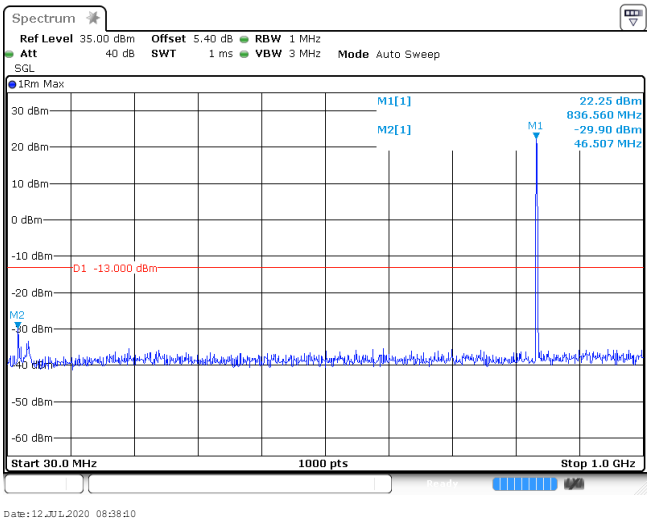

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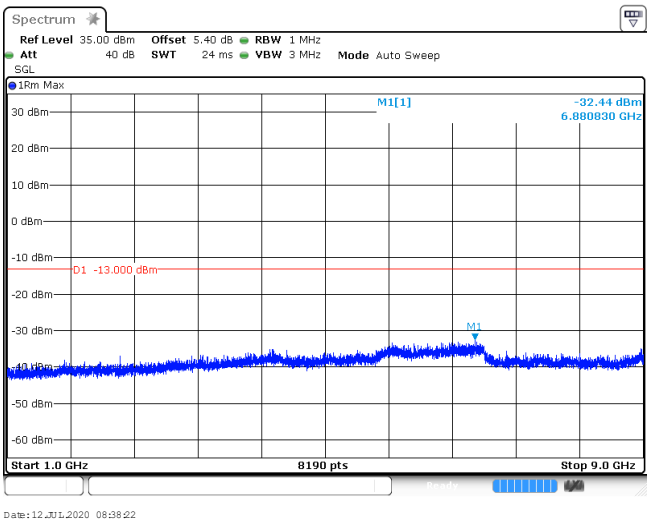

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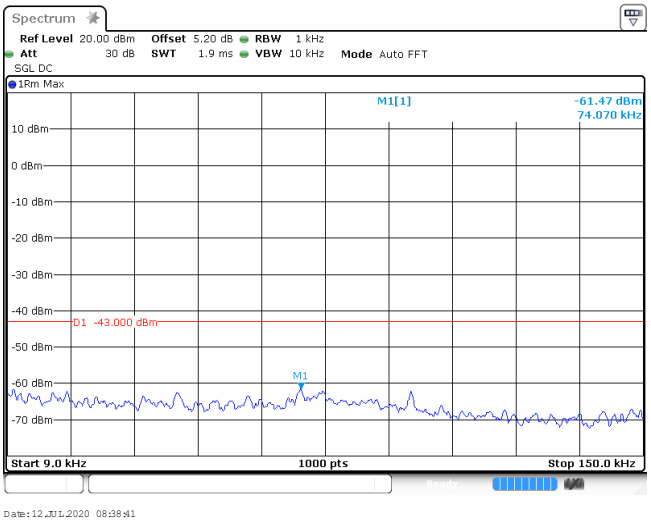

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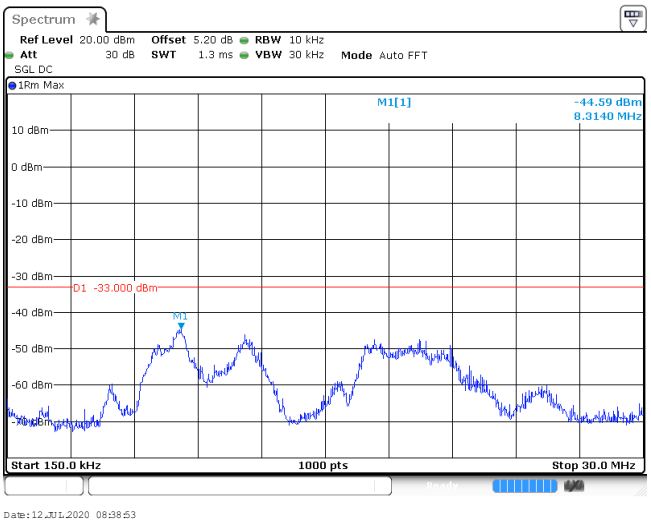

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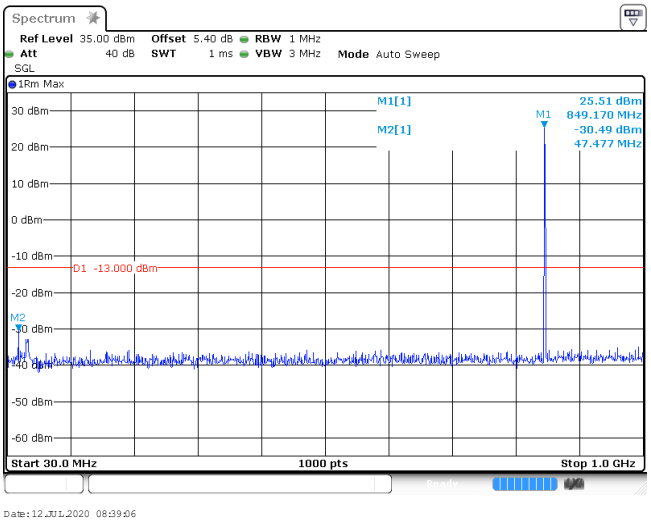

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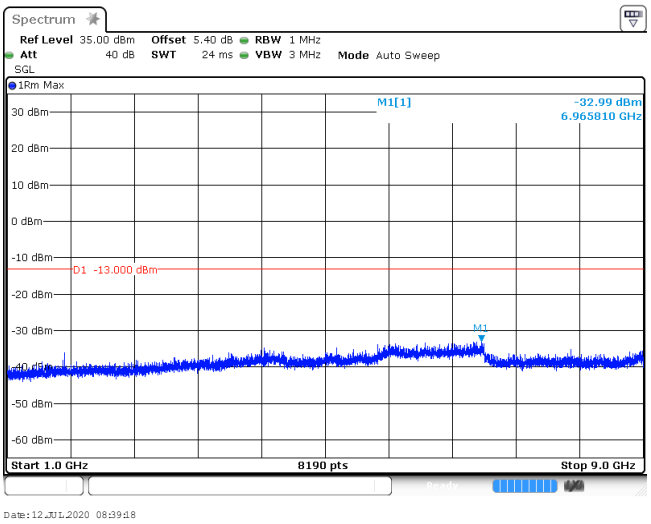

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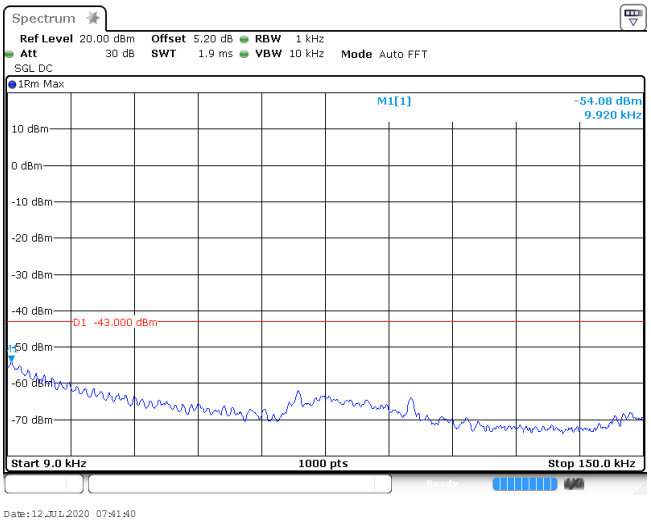

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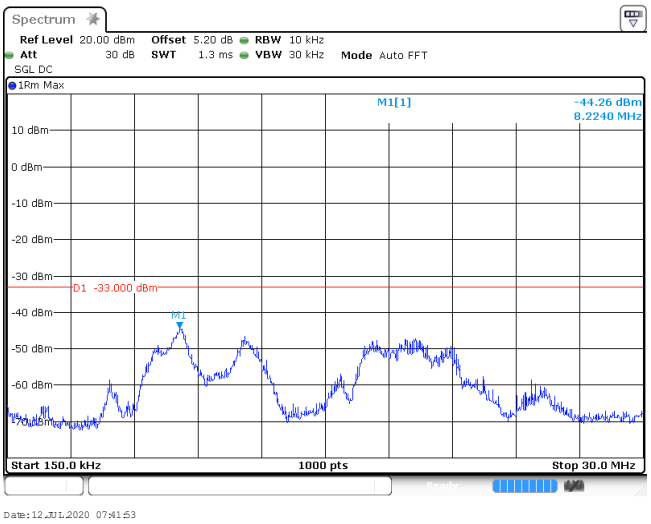

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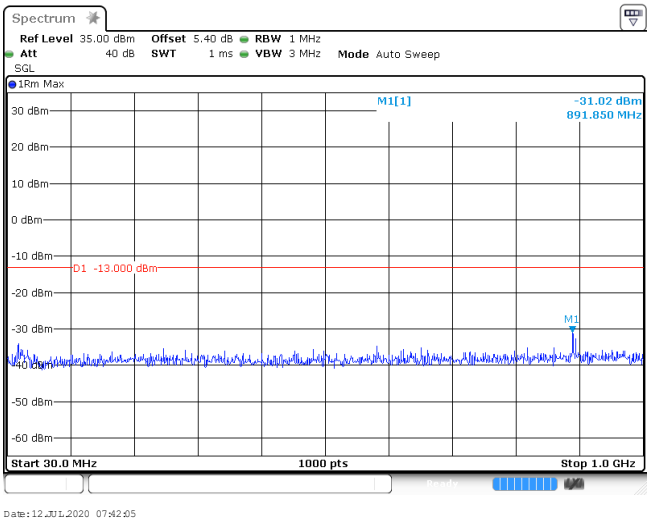

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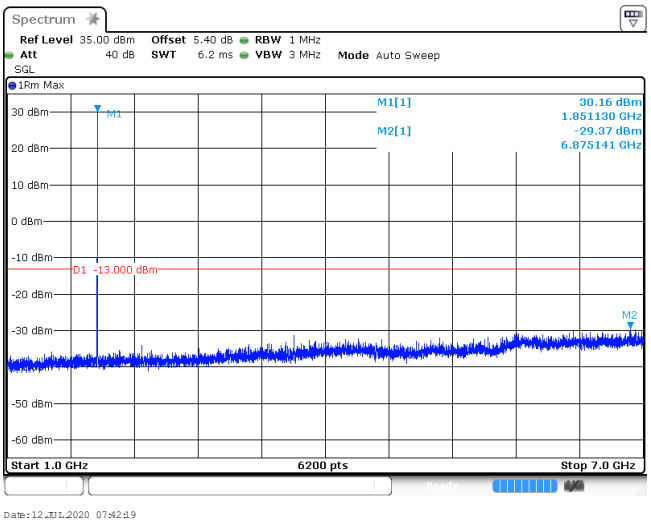

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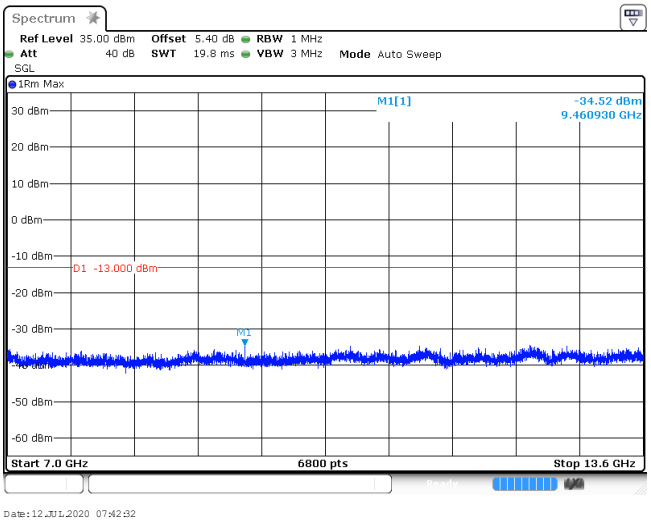

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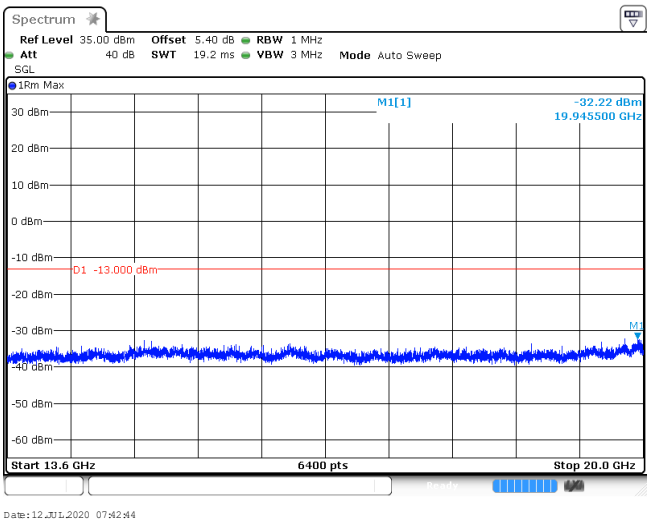

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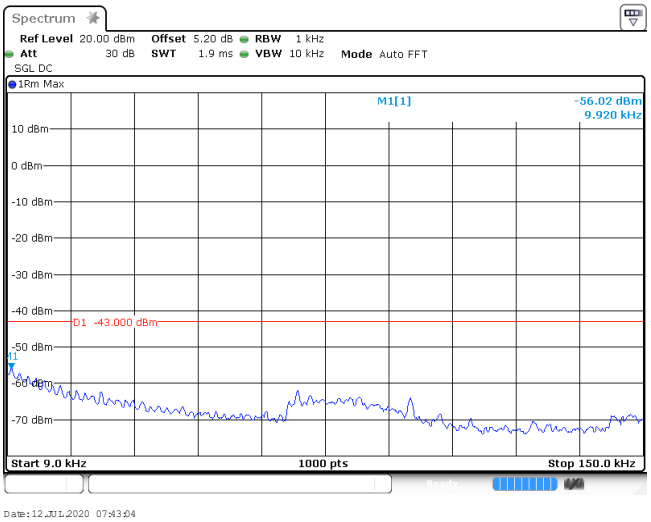

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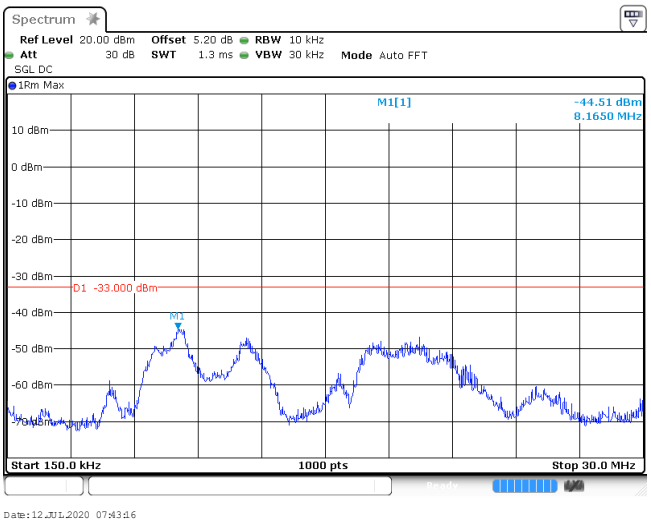

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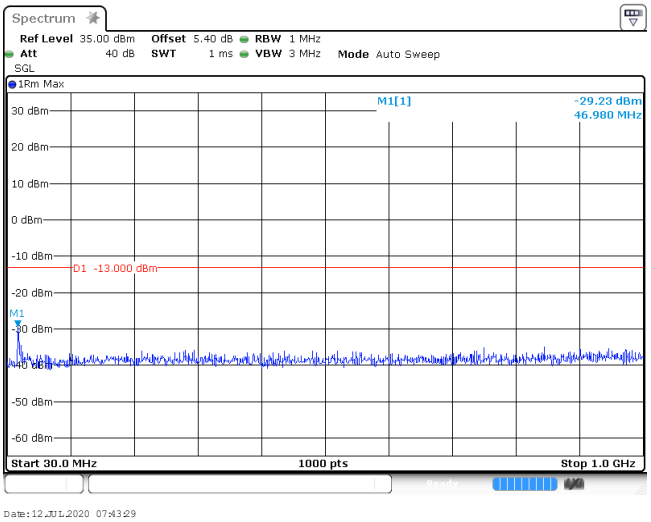

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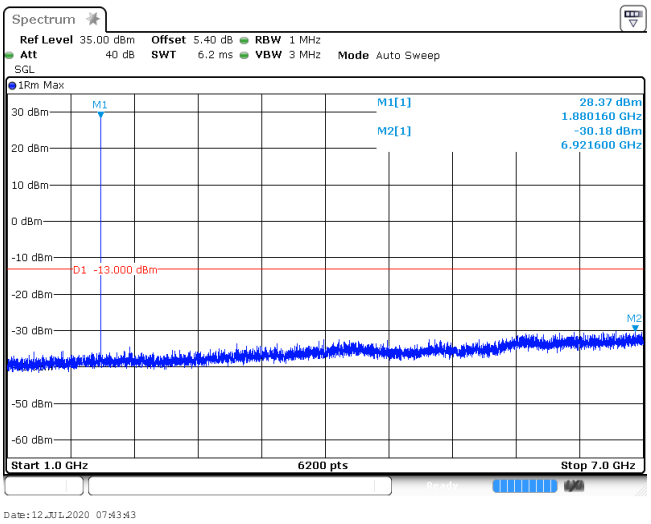

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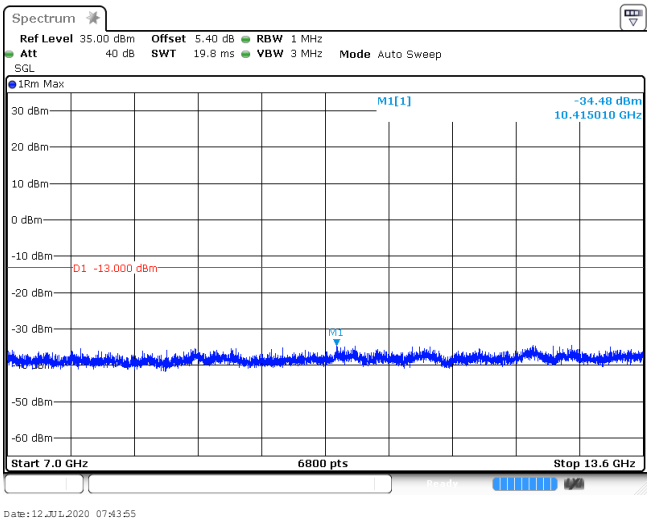

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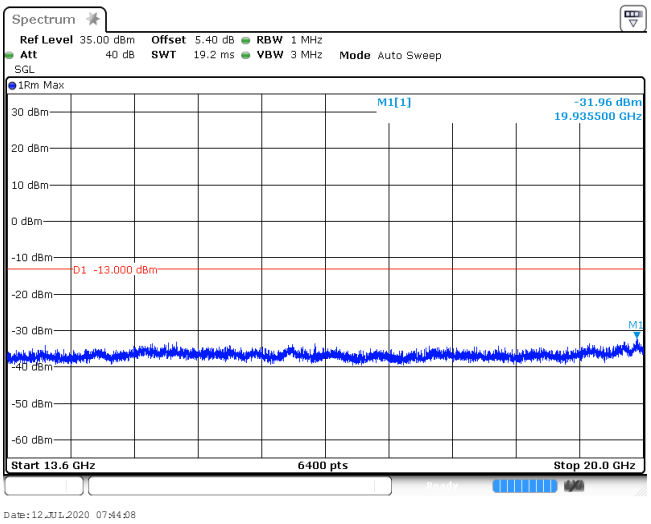

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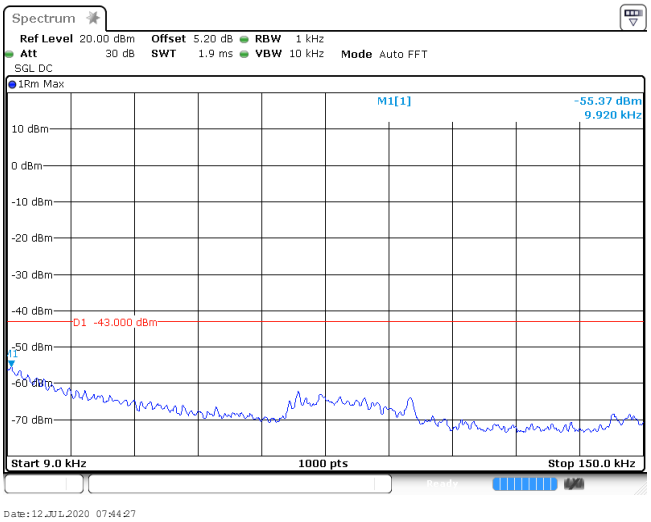

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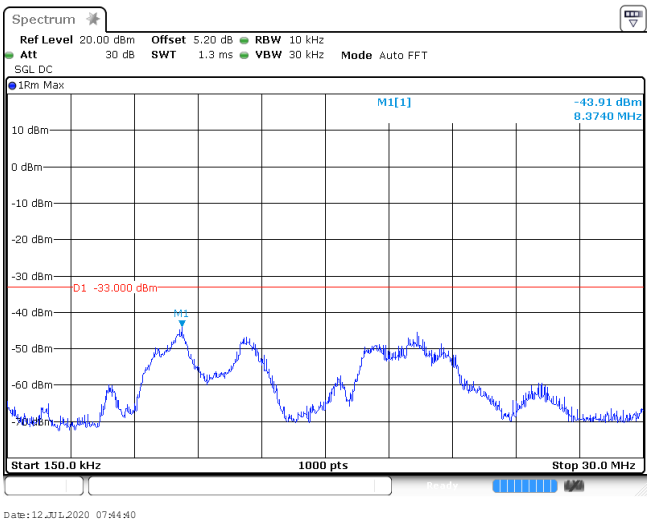

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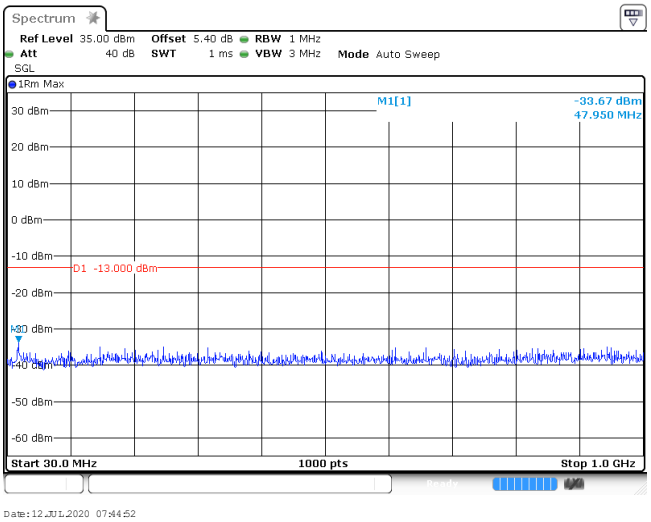

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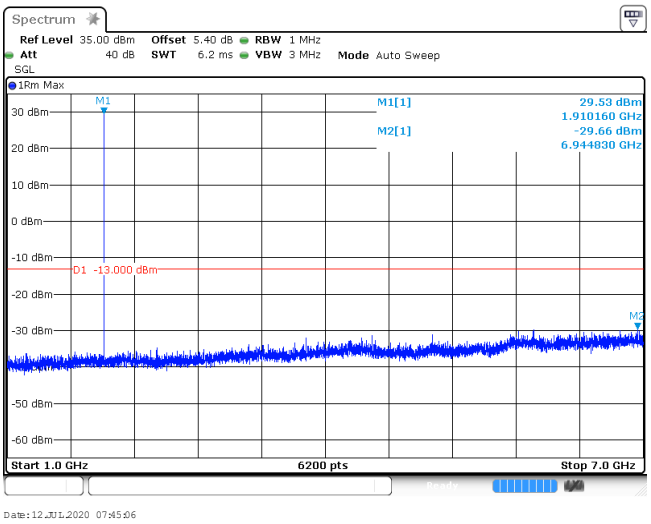

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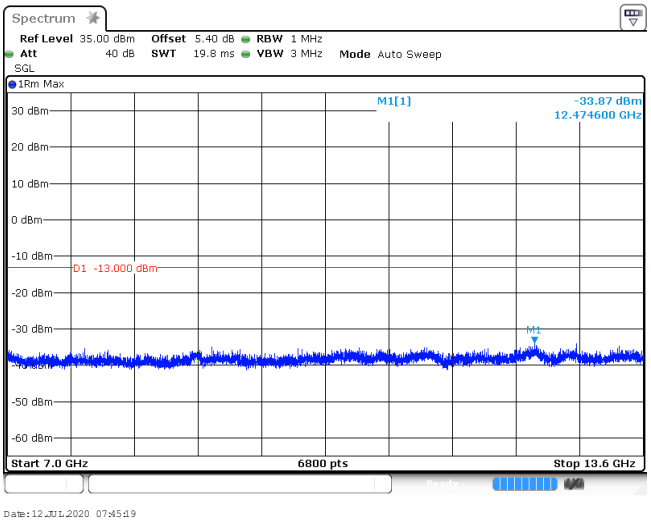

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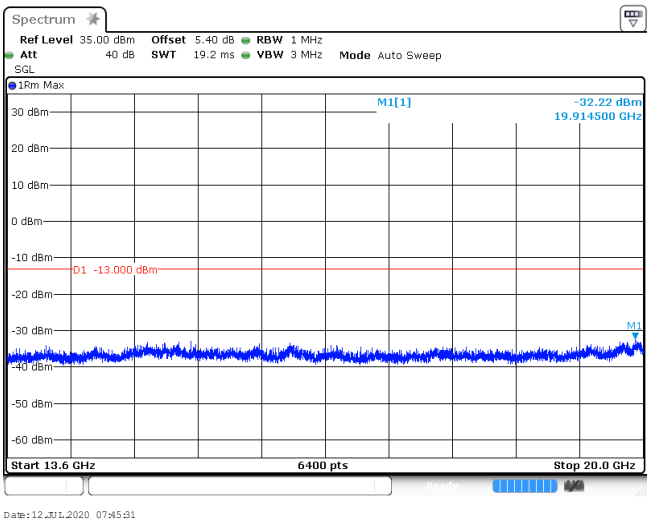

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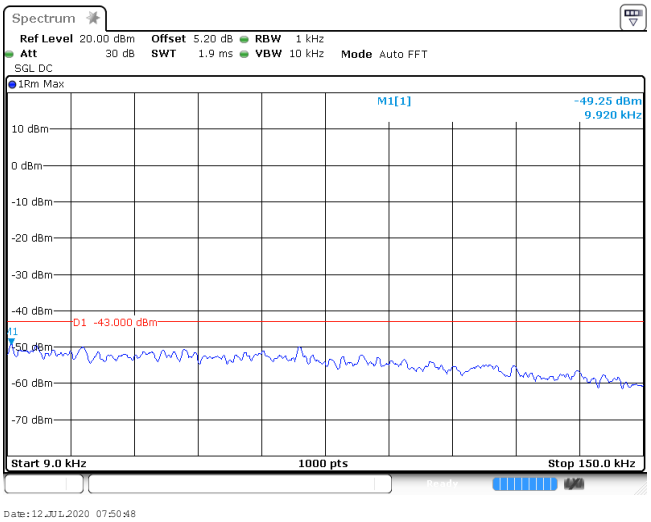

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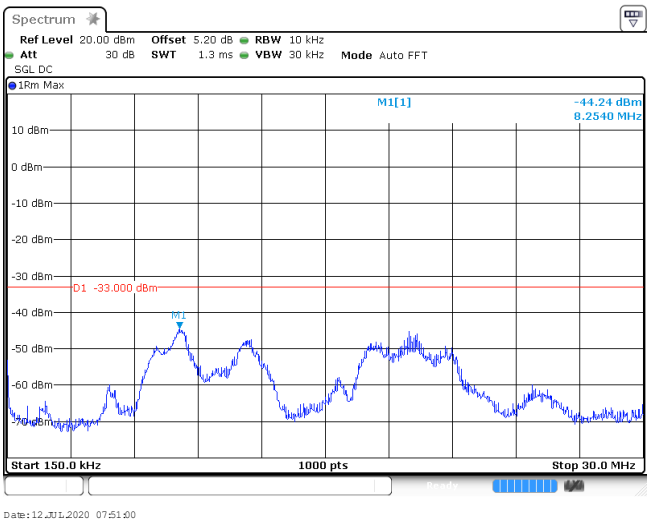

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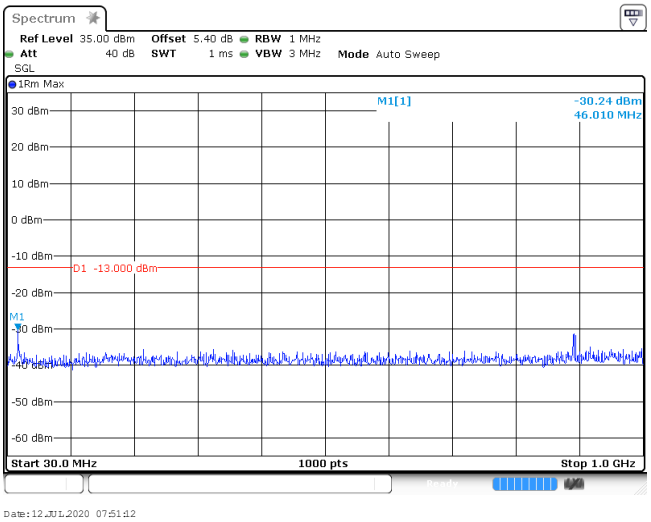

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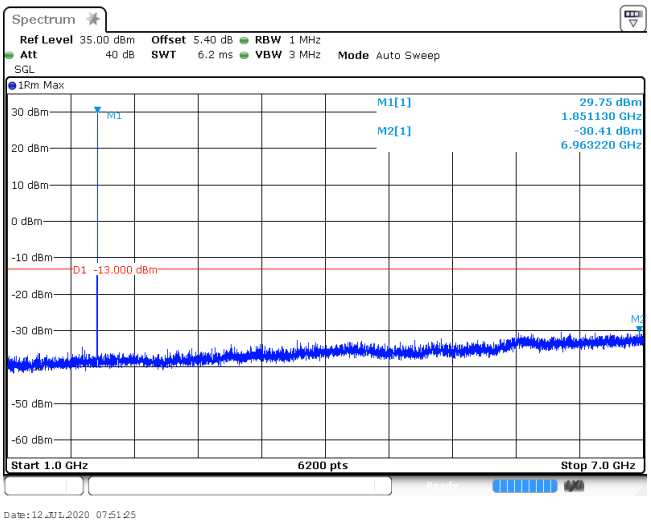

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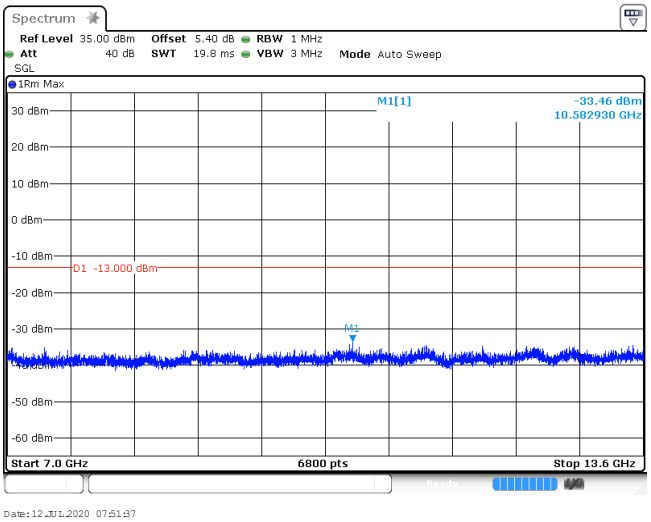

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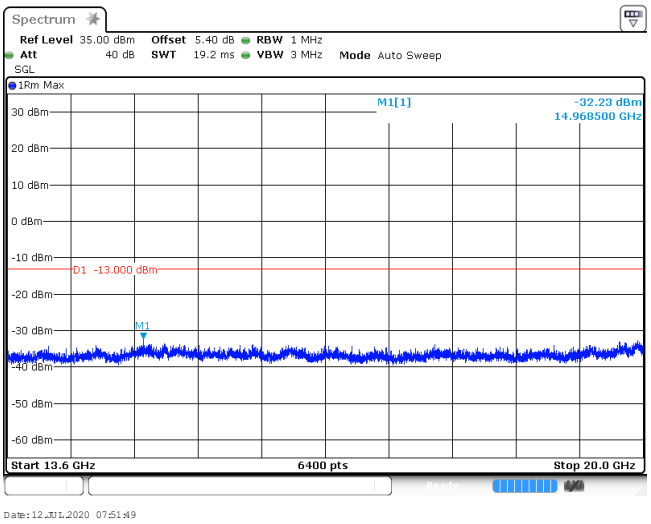

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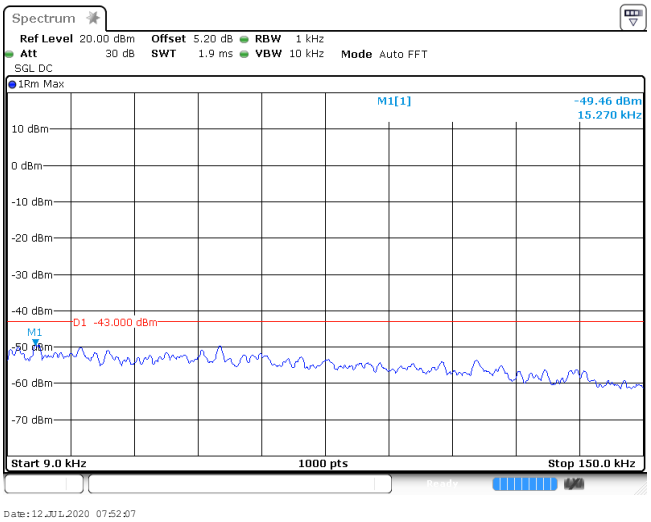

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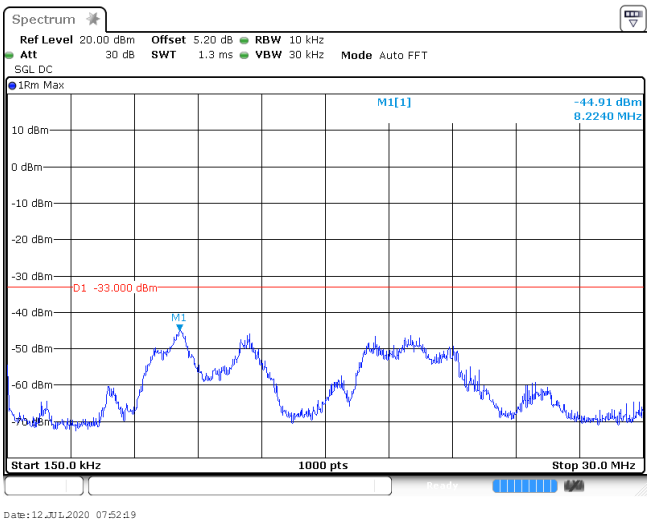

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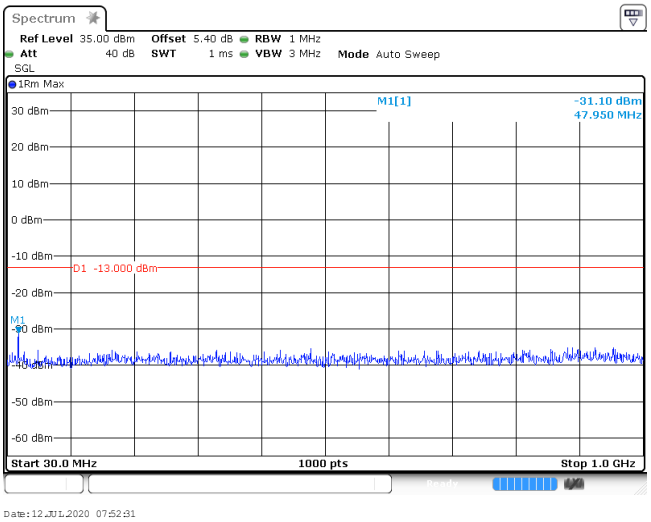

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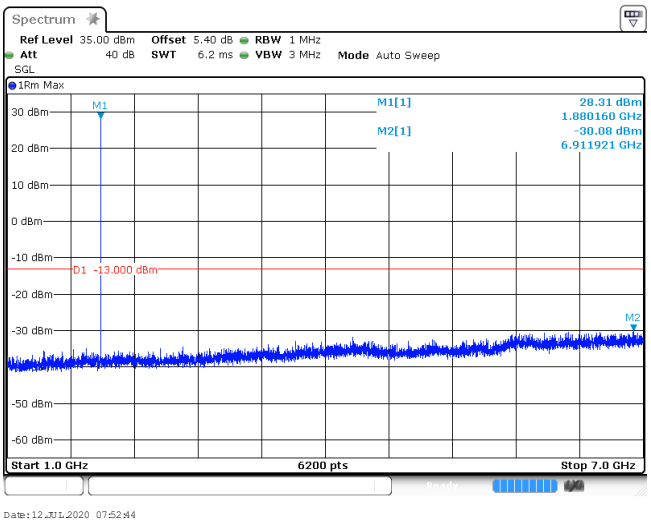

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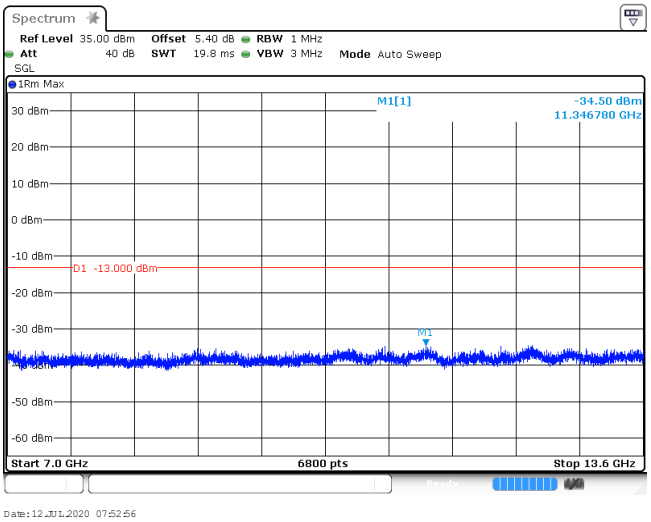

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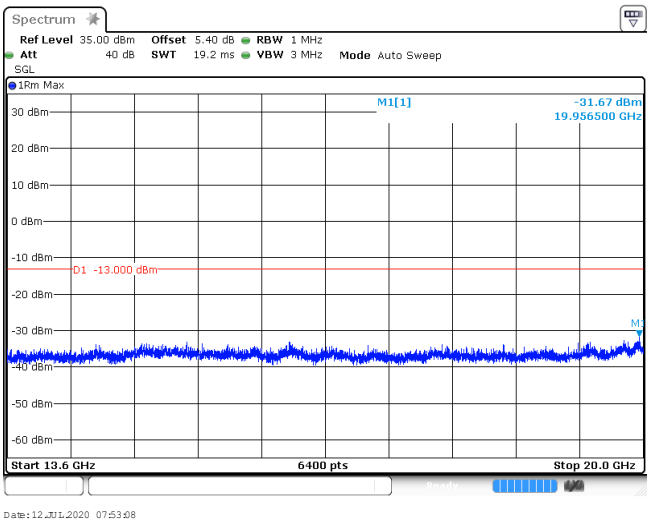

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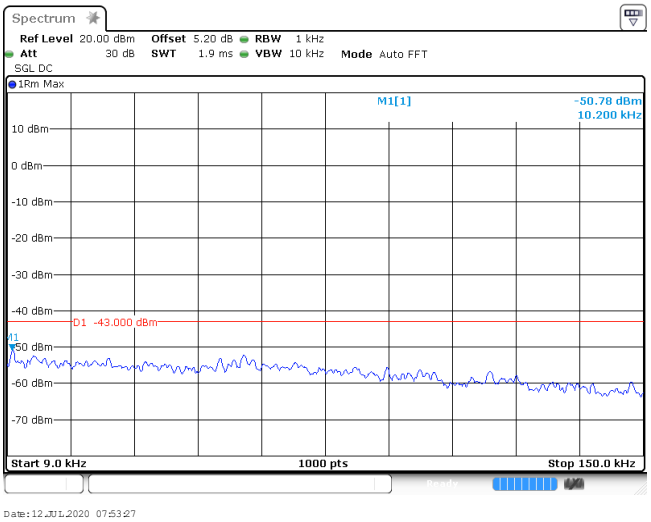
EGPRS1900_810



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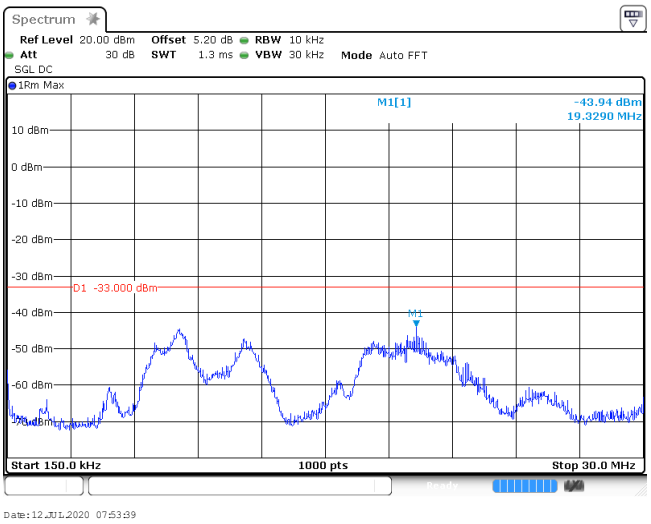

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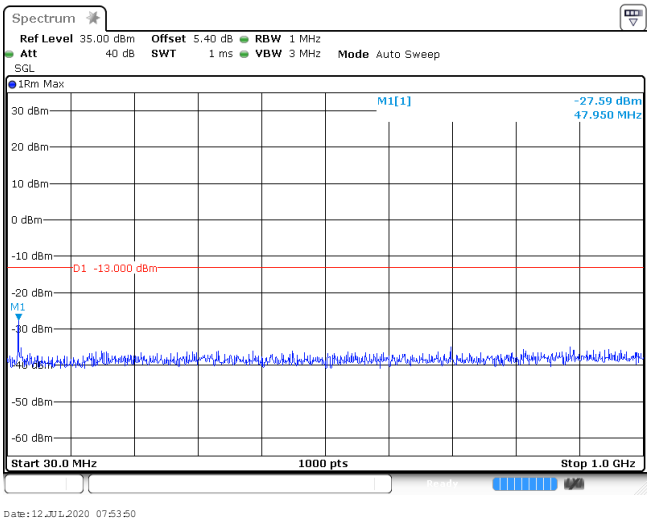

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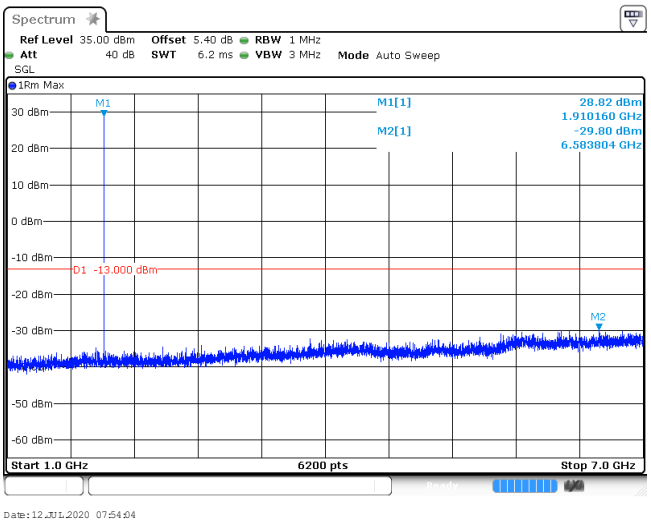

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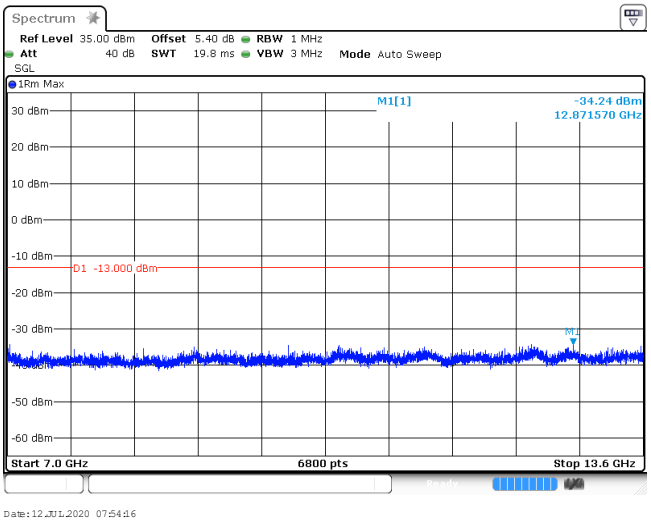

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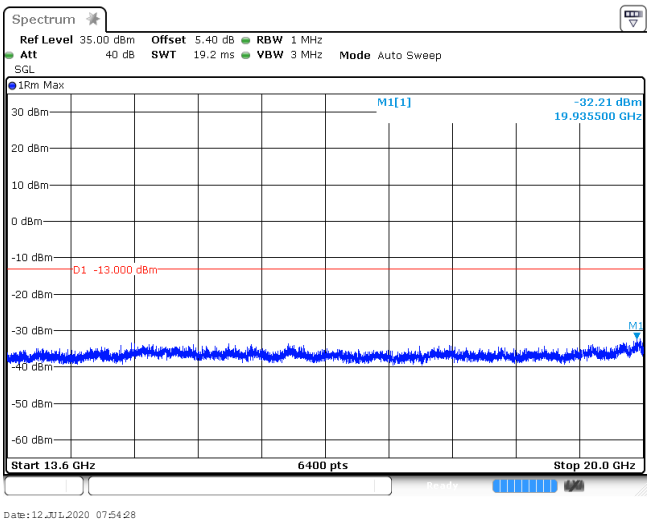

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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.1100	-71.98	-13.00	58.98	175	6	Vertical
114.0547	-64.62	-13.00	51.62	211	133	Vertical
3700.5234	-51.68	-13.00	38.68	152	165	Vertical
5550.5850	-58.06	-13.00	45.06	269	101	Vertical
10695.7565	-51.28	-13.00	38.28	237	37	Vertical
17999.0000	-39.39	-13.00	26.39	218	70	Vertical
42.2226	-64.26	-13.00	51.26	185	197	Horizontal
238.0754	-67.76	-13.00	54.76	166	325	Horizontal
3700.5234	-49.66	-13.00	36.66	137	5	Horizontal
5550.5850	-55.08	-13.00	42.08	128	229	Horizontal
10599.7533	-51.97	-13.00	38.97	111	229	Horizontal
16394.9465	-43.51	-13.00	30.51	178	261	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.7405	-72.47	-13.00	59.47	263	229	Vertical
105.4698	-64.92	-13.00	51.92	288	5	Vertical
3760.0253	-53.45	-13.00	40.45	211	324	Vertical
5640.0880	-58.21	-13.00	45.21	284	324	Vertical
11263.7755	-51.12	-13.00	38.12	296	197	Vertical
17996.4999	-40.25	-13.00	27.25	174	197	Vertical
45.1813	-65.00	-13.00	52.00	155	293	Horizontal
238.8999	-68.09	-13.00	55.09	163	293	Horizontal
3760.0253	-50.16	-13.00	37.16	127	165	Horizontal
5640.0880	-51.31	-13.00	38.31	117	4	Horizontal
9403.7135	-52.52	-13.00	39.52	189	165	Horizontal
16390.4463	-43.25	-13.00	30.25	176	197	Horizontal

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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
51.0016	-72.01	-13.00	59.01	253	61	Vertical
111.4841	-64.57	-13.00	51.57	222	127	Vertical
2693.1386	-37.84	-13.00	24.84	217	354	Vertical
3819.5273	-51.34	-13.00	38.34	196	163	Vertical
5729.5910	-55.17	-13.00	42.17	137	27	Vertical
17998.5000	-40.10	-13.00	27.10	128	127	Vertical
39.3125	-64.40	-13.00	51.40	151	92	Horizontal
233.1767	-68.12	-13.00	55.12	274	155	Horizontal
2698.7397	-36.53	-13.00	23.53	299	64	Horizontal
3819.5273	-43.69	-13.00	30.69	218	155	Horizontal
5729.5910	-52.47	-13.00	39.47	111	0	Horizontal
16391.9464	-43.67	-13.00	30.67	189	252	Horizontal

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.0290	-64.74	-13.00	51.74	262	68	Vertical
317.2314	-67.85	-13.00	54.85	234	101	Vertical
1648.5297	-46.55	-13.00	33.55	285	176	Vertical
2472.6945	-47.86	-13.00	34.86	198	344	Vertical
3296.5099	-59.65	-13.00	46.65	175	164	Vertical
17997.4999	-39.93	-13.00	26.93	111	164	Vertical
41.2041	-63.75	-13.00	50.75	141	261	Horizontal
237.9784	-67.62	-13.00	54.62	154	356	Horizontal
1648.1296	-42.22	-13.00	29.22	171	171	Horizontal
2472.6945	-43.15	-13.00	30.15	196	323	Horizontal
3296.5099	-57.63	-13.00	44.63	123	101	Horizontal
16385.4462	-43.31	-13.00	30.31	262	133	Horizontal

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7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
115.4613	-63.80	-13.00	50.80	252	292	Vertical
397.8909	-67.06	-13.00	54.06	163	324	Vertical
1672.9346	-53.34	-13.00	40.34	174	137	Vertical
2509.9020	-49.81	-13.00	36.81	188	4	Vertical
3346.0115	-60.79	-13.00	47.79	296	128	Vertical
17999.0000	-39.94	-13.00	26.94	211	259	Vertical
40.6705	-63.70	-13.00	50.70	184	66	Horizontal
236.1838	-67.19	-13.00	54.19	166	356	Horizontal
1673.3347	-45.13	-13.00	32.13	132	240	Horizontal
2509.9020	-43.12	-13.00	30.12	128	323	Horizontal
3346.5116	-60.97	-13.00	47.97	142	229	Horizontal
16389.4463	-43.80	-13.00	30.80	208	3	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.0130	-72.03	-13.00	59.03	253	133	Vertical
108.7679	-63.20	-13.00	50.20	211	196	Vertical
1697.7395	-52.24	-13.00	39.24	239	63	Vertical
2546.7093	-50.52	-13.00	37.52	241	328	Vertical
3395.0132	-60.59	-13.00	47.59	274	164	Vertical
17997.9999	-39.87	-13.00	26.87	109	5	Vertical
43.1927	-64.04	-13.00	51.04	184	5	Horizontal
228.9084	-67.45	-13.00	54.45	166	197	Horizontal
1697.7395	-44.49	-13.00	31.49	131	360	Horizontal
2546.3093	-44.94	-13.00	31.94	128	18	Horizontal
3395.0132	-59.50	-13.00	46.50	178	5	Horizontal
16382.4461	-43.75	-13.00	30.75	166	293	Horizontal

Remark:

1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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3)

8. Frequency Stability

8.1. Frequency Error Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	11.00	0.013346	±2.5	PASS
GSM850	128	VN	TN	-3.78	-0.004591	±2.5	PASS
GSM850	128	VH	TN	-3.33	-0.004044	±2.5	PASS
GSM850	190	VL	TN	-7.25	-0.008660	±2.5	PASS
GSM850	190	VN	TN	-12.76	-0.015254	±2.5	PASS
GSM850	190	VH	TN	3.30	0.003948	±2.5	PASS
GSM850	251	VL	TN	8.83	0.010407	±2.5	PASS
GSM850	251	VN	TN	0.58	0.000682	±2.5	PASS
GSM850	251	VH	TN	10.26	0.012084	±2.5	PASS
EGPRS850	128	VL	TN	1.03	0.001245	±2.5	PASS
EGPRS850	128	VN	TN	10.28	0.012473	±2.5	PASS
EGPRS850	128	VH	TN	-5.34	-0.006474	±2.5	PASS
EGPRS850	190	VL	TN	13.34	0.015942	±2.5	PASS
EGPRS850	190	VN	TN	-6.89	-0.008239	±2.5	PASS
EGPRS850	190	VH	TN	2.60	0.003106	±2.5	PASS
EGPRS850	251	VL	TN	1.94	0.002284	±2.5	PASS
EGPRS850	251	VN	TN	5.64	0.006641	±2.5	PASS
EGPRS850	251	VH	TN	4.26	0.005024	±2.5	PASS
GSM1900	512	VL	TN	-10.97	-0.005930	±2.5	PASS
GSM1900	512	VN	TN	-9.27	-0.005012	±2.5	PASS
GSM1900	512	VH	TN	9.77	0.005278	±2.5	PASS
GSM1900	661	VL	TN	5.39	0.002867	±2.5	PASS
GSM1900	661	VN	TN	6.57	0.003493	±2.5	PASS
GSM1900	661	VH	TN	8.55	0.004546	±2.5	PASS
GSM1900	810	VL	TN	11.55	0.006050	±2.5	PASS
GSM1900	810	VN	TN	3.59	0.001880	±2.5	PASS
GSM1900	810	VH	TN	9.14	0.004786	±2.5	PASS
EGPRS1900	512	VL	TN	-9.72	-0.005253	±2.5	PASS
EGPRS1900	512	VN	TN	-11.21	-0.006058	±2.5	PASS

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EGPRS1900	512	VH	TN	9.48	0.005122	±2.5	PASS
EGPRS1900	661	VL	TN	-2.78	-0.001480	±2.5	PASS
EGPRS1900	661	VN	TN	3.17	0.001688	±2.5	PASS
EGPRS1900	661	VH	TN	8.64	0.004595	±2.5	PASS
EGPRS1900	810	VL	TN	-6.08	-0.003185	±2.5	PASS
EGPRS1900	810	VN	TN	-0.34	-0.000176	±2.5	PASS
EGPRS1900	810	VH	TN	-2.20	-0.001151	±2.5	PASS

8.2. Frequency Error Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	11.20	0.013589	±2.5	PASS
GSM850	128	VN	-20	3.34	0.004052	±2.5	PASS
GSM850	128	VN	-10	-5.67	-0.006878	±2.5	PASS
GSM850	128	VN	0	-10.47	-0.012706	±2.5	PASS
GSM850	128	VN	10	-3.43	-0.004162	±2.5	PASS
GSM850	128	VN	20	-0.18	-0.000213	±2.5	PASS
GSM850	128	VN	30	-14.67	-0.017802	±2.5	PASS
GSM850	128	VN	40	9.70	0.011772	±2.5	PASS
GSM850	128	VN	50	-9.81	-0.011904	±2.5	PASS
GSM850	190	VN	-30	0.05	0.000059	±2.5	PASS
GSM850	190	VN	-20	-0.08	-0.000091	±2.5	PASS
GSM850	190	VN	-10	-12.77	-0.015262	±2.5	PASS
GSM850	190	VN	0	-0.83	-0.000990	±2.5	PASS
GSM850	190	VN	10	1.38	0.001646	±2.5	PASS
GSM850	190	VN	20	3.54	0.004232	±2.5	PASS
GSM850	190	VN	30	14.89	0.017793	±2.5	PASS
GSM850	190	VN	40	9.99	0.011939	±2.5	PASS
GSM850	190	VN	50	-10.83	-0.012944	±2.5	PASS
GSM850	251	VN	-30	-4.20	-0.004945	±2.5	PASS
GSM850	251	VN	-20	6.22	0.007330	±2.5	PASS
GSM850	251	VN	-10	1.01	0.001192	±2.5	PASS
GSM850	251	VN	0	-7.79	-0.009172	±2.5	PASS
GSM850	251	VN	10	-1.01	-0.001193	±2.5	PASS
GSM850	251	VN	20	-11.34	-0.013362	±2.5	PASS

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GSM850	251	VN	30	8.85	0.010425	±2.5	PASS
GSM850	251	VN	40	-5.53	-0.006519	±2.5	PASS
GSM850	251	VN	50	-0.99	-0.001165	±2.5	PASS
EGPRS850	128	VN	-30	-6.41	-0.007778	±2.5	PASS
EGPRS850	128	VN	-20	-4.26	-0.005170	±2.5	PASS
EGPRS850	128	VN	-10	4.66	0.005654	±2.5	PASS
EGPRS850	128	VN	0	9.22	0.011184	±2.5	PASS
EGPRS850	128	VN	10	-13.41	-0.016266	±2.5	PASS
EGPRS850	128	VN	20	7.97	0.009674	±2.5	PASS
EGPRS850	128	VN	30	-8.30	-0.010068	±2.5	PASS
EGPRS850	128	VN	40	-0.51	-0.000622	±2.5	PASS
EGPRS850	128	VN	50	-3.13	-0.003795	±2.5	PASS
EGPRS850	190	VN	-30	13.56	0.016207	±2.5	PASS
EGPRS850	190	VN	-20	13.68	0.016347	±2.5	PASS
EGPRS850	190	VN	-10	10.28	0.012290	±2.5	PASS
EGPRS850	190	VN	0	10.93	0.013067	±2.5	PASS
EGPRS850	190	VN	10	-12.76	-0.015252	±2.5	PASS
EGPRS850	190	VN	20	-13.74	-0.016428	±2.5	PASS
EGPRS850	190	VN	30	-6.86	-0.008199	±2.5	PASS
EGPRS850	190	VN	40	9.63	0.011506	±2.5	PASS
EGPRS850	190	VN	50	11.39	0.013617	±2.5	PASS
EGPRS850	251	VN	-30	-10.59	-0.012475	±2.5	PASS
EGPRS850	251	VN	-20	-4.23	-0.004987	±2.5	PASS
EGPRS850	251	VN	-10	-13.51	-0.015921	±2.5	PASS
EGPRS850	251	VN	0	0.29	0.000339	±2.5	PASS
EGPRS850	251	VN	10	-12.93	-0.015232	±2.5	PASS
EGPRS850	251	VN	20	9.36	0.011026	±2.5	PASS
EGPRS850	251	VN	30	-0.20	-0.000234	±2.5	PASS
EGPRS850	251	VN	40	-9.39	-0.011063	±2.5	PASS
EGPRS850	251	VN	50	4.18	0.004925	±2.5	PASS
GSM1900	512	VN	-30	6.02	0.003256	±2.5	PASS
GSM1900	512	VN	-20	13.54	0.007317	±2.5	PASS
GSM1900	512	VN	-10	-7.30	-0.003943	±2.5	PASS
GSM1900	512	VN	0	9.70	0.005242	±2.5	PASS
GSM1900	512	VN	10	2.54	0.001371	±2.5	PASS
GSM1900	512	VN	20	-13.07	-0.007064	±2.5	PASS
GSM1900	512	VN	30	-8.77	-0.004739	±2.5	PASS

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GSM1900	512	VN	40	13.87	0.007498	±2.5	PASS
GSM1900	512	VN	50	6.34	0.003428	±2.5	PASS
GSM1900	661	VN	-30	-9.23	-0.004911	±2.5	PASS
GSM1900	661	VN	-20	-14.04	-0.007469	±2.5	PASS
GSM1900	661	VN	-10	-11.25	-0.005983	±2.5	PASS
GSM1900	661	VN	0	7.08	0.003768	±2.5	PASS
GSM1900	661	VN	10	4.97	0.002643	±2.5	PASS
GSM1900	661	VN	20	0.81	0.000431	±2.5	PASS
GSM1900	661	VN	30	-7.21	-0.003837	±2.5	PASS
GSM1900	661	VN	40	6.28	0.003339	±2.5	PASS
GSM1900	661	VN	50	7.62	0.004054	±2.5	PASS
GSM1900	810	VN	-30	12.55	0.006574	±2.5	PASS
GSM1900	810	VN	-20	-14.22	-0.007447	±2.5	PASS
GSM1900	810	VN	-10	-14.39	-0.007535	±2.5	PASS
GSM1900	810	VN	0	8.27	0.004332	±2.5	PASS
GSM1900	810	VN	10	14.52	0.007604	±2.5	PASS
GSM1900	810	VN	20	4.41	0.002307	±2.5	PASS
GSM1900	810	VN	30	-3.50	-0.001831	±2.5	PASS
GSM1900	810	VN	40	-9.02	-0.004723	±2.5	PASS
GSM1900	810	VN	50	9.92	0.005194	±2.5	PASS
EGPRS1900	512	VN	-30	-10.24	-0.005533	±2.5	PASS
EGPRS1900	512	VN	-20	8.22	0.004443	±2.5	PASS
EGPRS1900	512	VN	-10	-6.82	-0.003687	±2.5	PASS
EGPRS1900	512	VN	0	-0.12	-0.000063	±2.5	PASS
EGPRS1900	512	VN	10	-0.77	-0.000418	±2.5	PASS
EGPRS1900	512	VN	20	-8.98	-0.004853	±2.5	PASS
EGPRS1900	512	VN	30	7.07	0.003821	±2.5	PASS
EGPRS1900	512	VN	40	-11.26	-0.006086	±2.5	PASS
EGPRS1900	512	VN	50	-1.72	-0.000928	±2.5	PASS
EGPRS1900	661	VN	-30	14.64	0.007788	±2.5	PASS
EGPRS1900	661	VN	-20	-7.95	-0.004227	±2.5	PASS
EGPRS1900	661	VN	-10	8.67	0.004614	±2.5	PASS
EGPRS1900	661	VN	0	-11.53	-0.006132	±2.5	PASS
EGPRS1900	661	VN	10	-6.10	-0.003242	±2.5	PASS
EGPRS1900	661	VN	20	-12.81	-0.006815	±2.5	PASS
EGPRS1900	661	VN	30	-5.64	-0.003000	±2.5	PASS
EGPRS1900	661	VN	40	-0.52	-0.000275	±2.5	PASS

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EGPRS1900	661	VN	50	-10.65	-0.005664	±2.5	PASS
EGPRS1900	810	VN	-30	-9.70	-0.005079	±2.5	PASS
EGPRS1900	810	VN	-20	3.91	0.002049	±2.5	PASS
EGPRS1900	810	VN	-10	3.06	0.001602	±2.5	PASS
EGPRS1900	810	VN	0	0.25	0.000131	±2.5	PASS
EGPRS1900	810	VN	10	-5.92	-0.003100	±2.5	PASS
EGPRS1900	810	VN	20	-13.20	-0.006913	±2.5	PASS
EGPRS1900	810	VN	30	10.50	0.005497	±2.5	PASS
EGPRS1900	810	VN	40	-2.54	-0.001331	±2.5	PASS
EGPRS1900	810	VN	50	9.18	0.004809	±2.5	PASS

The End

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