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	---	32.98	27.23	38.45	PASS
GSM850	190	---	33.03	27.28	38.45	PASS
GSM850	251	---	32.99	27.24	38.45	PASS
EGPRS850	128	1	26.69	20.94	38.45	PASS
EGPRS850	128	2	25.65	19.9	38.45	PASS
EGPRS850	128	3	23.11	17.36	38.45	PASS
EGPRS850	128	4	22.89	17.14	38.45	PASS
EGPRS850	190	1	26.74	20.99	38.45	PASS
EGPRS850	190	2	25.78	20.03	38.45	PASS
EGPRS850	190	3	23.21	17.46	38.45	PASS
EGPRS850	190	4	22.91	17.16	38.45	PASS
EGPRS850	251	1	26.67	20.92	38.45	PASS
EGPRS850	251	2	25.71	19.96	38.45	PASS
EGPRS850	251	3	23.15	17.4	38.45	PASS
EGPRS850	251	4	22.87	17.12	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.12	28.02	33.00	PASS
GSM1900	661	---	30.11	28.01	33.00	PASS
GSM1900	810	---	30.08	27.98	33.00	PASS
EGPRS1900	512	1	25.77	23.67	33.00	PASS
EGPRS1900	512	2	24.59	22.49	33.00	PASS
EGPRS1900	512	3	22.89	20.79	33.00	PASS
EGPRS1900	512	4	20.66	18.56	33.00	PASS
EGPRS1900	661	1	25.74	23.64	33.00	PASS
EGPRS1900	661	2	24.56	22.46	33.00	PASS
EGPRS1900	661	3	22.92	20.82	33.00	PASS
EGPRS1900	661	4	21.23	19.13	33.00	PASS
EGPRS1900	810	1	25.72	23.62	33.00	PASS
EGPRS1900	810	2	24.60	22.5	33.00	PASS
EGPRS1900	810	3	22.97	20.87	33.00	PASS
EGPRS1900	810	4	20.69	18.59	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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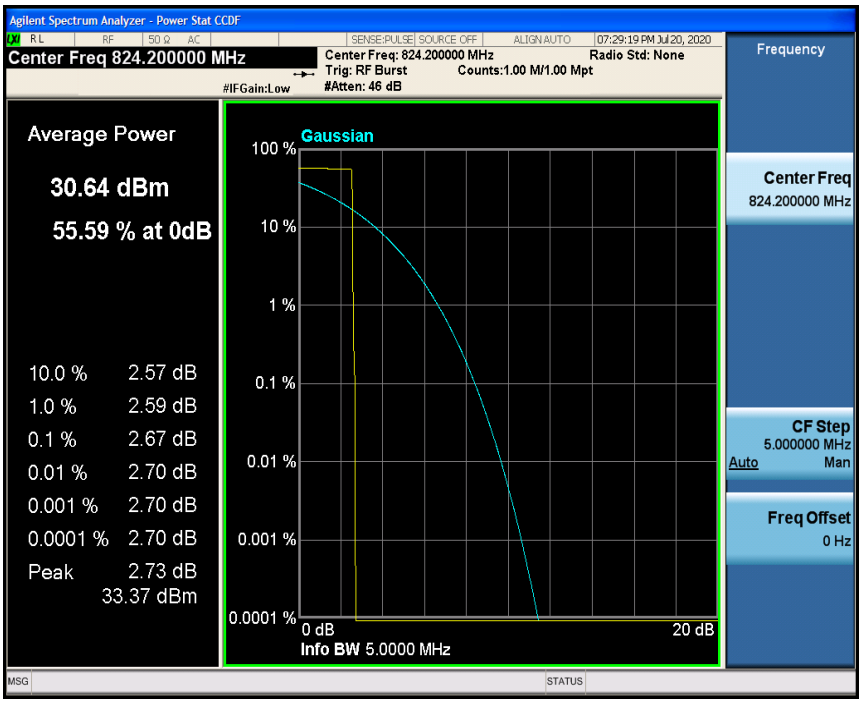
2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	2.67	13	PASS
GSM850	190	2.62	13	PASS
GSM850	251	2.65	13	PASS
EGPRS850	128	3.43	13	PASS
EGPRS850	190	5.66	13	PASS
EGPRS850	251	5.77	13	PASS
GSM1900	512	2.74	13	PASS
GSM1900	661	2.75	13	PASS
GSM1900	810	2.82	13	PASS
EGPRS1900	512	5.55	13	PASS
EGPRS1900	661	5.78	13	PASS
EGPRS1900	810	5.85	13	PASS

2.2. Part II - Test Plots

GSM850_128



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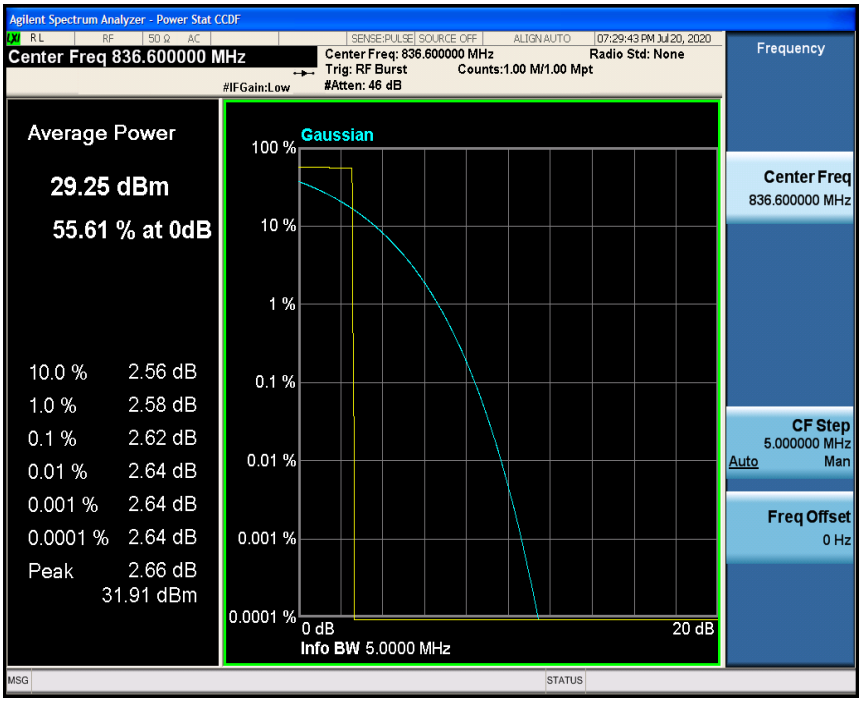

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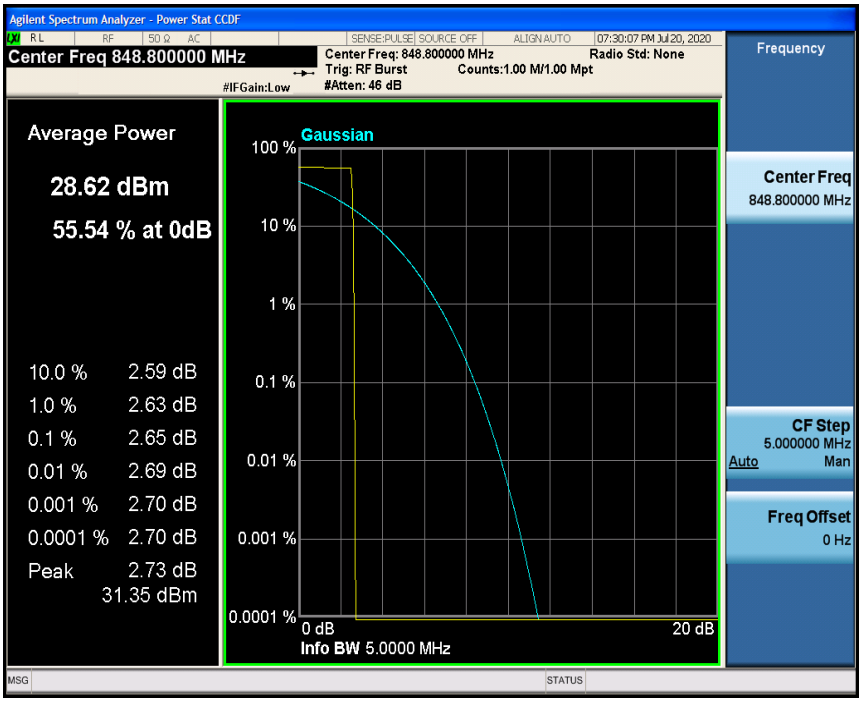

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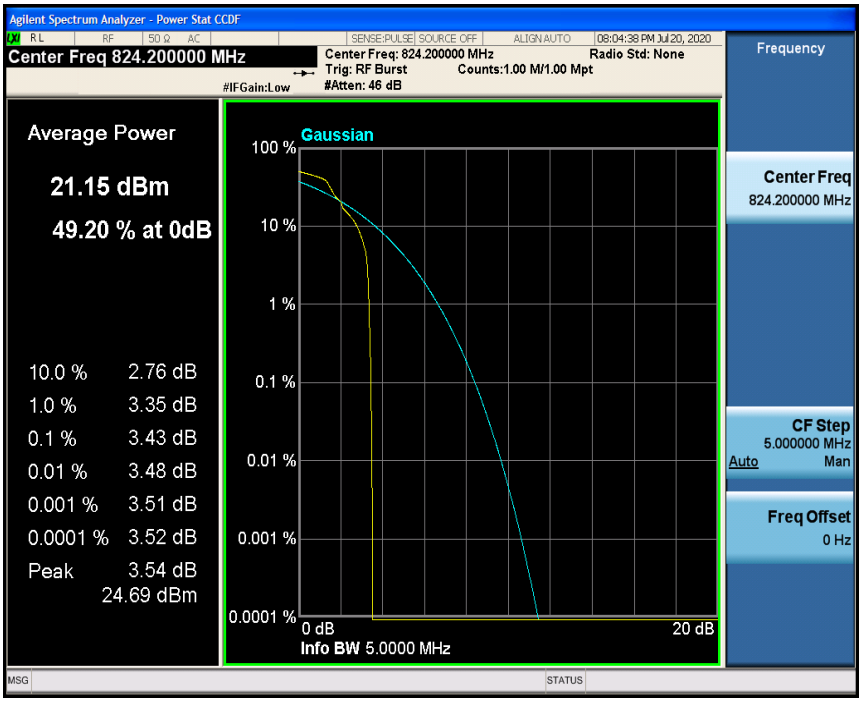

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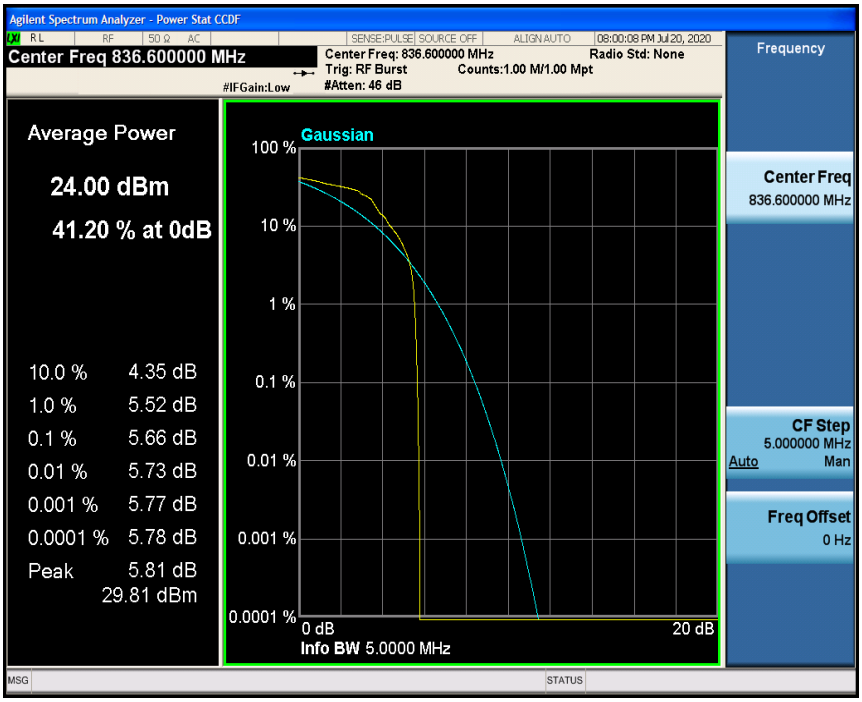

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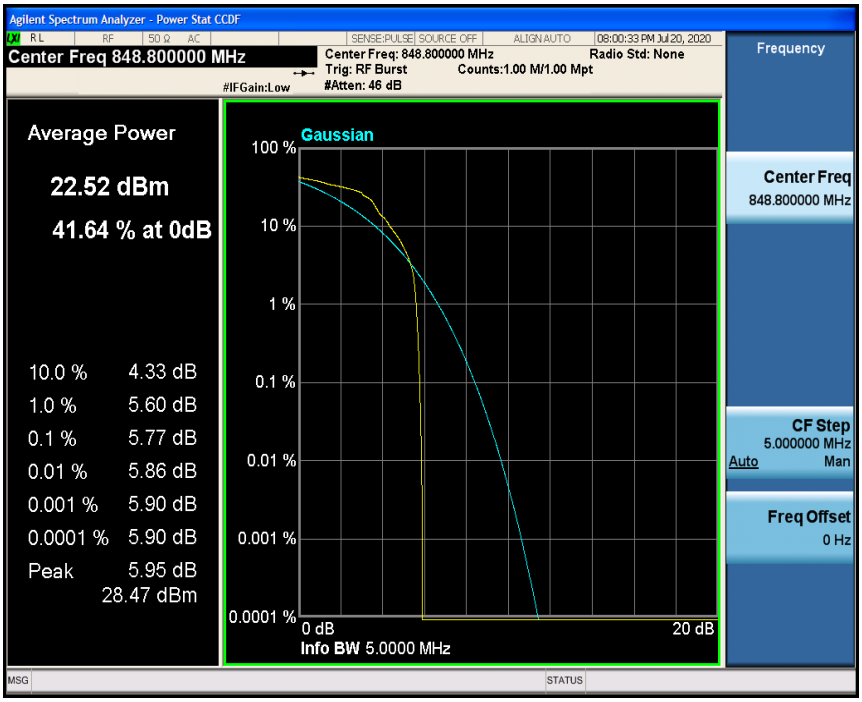

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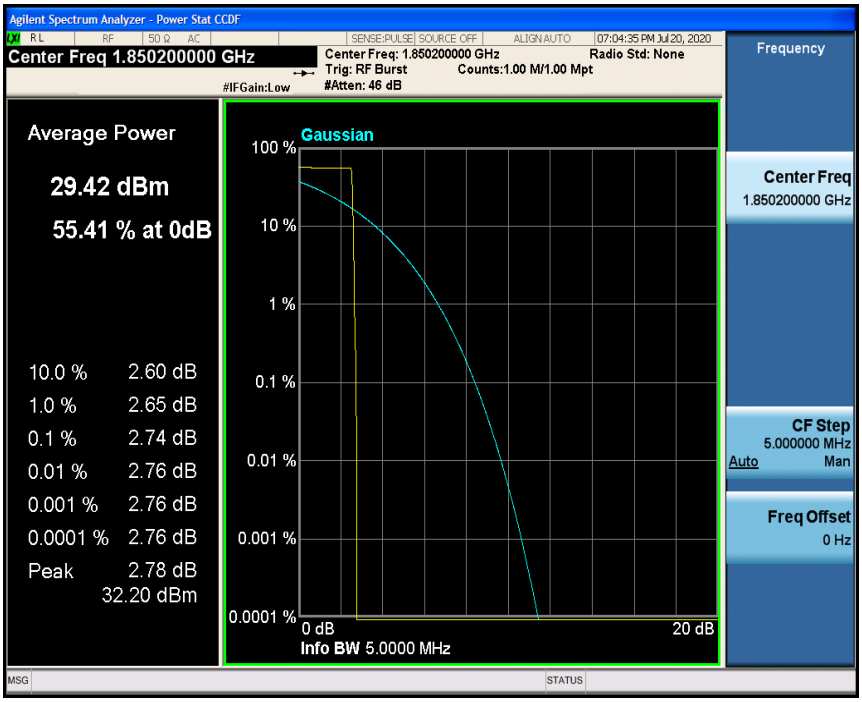

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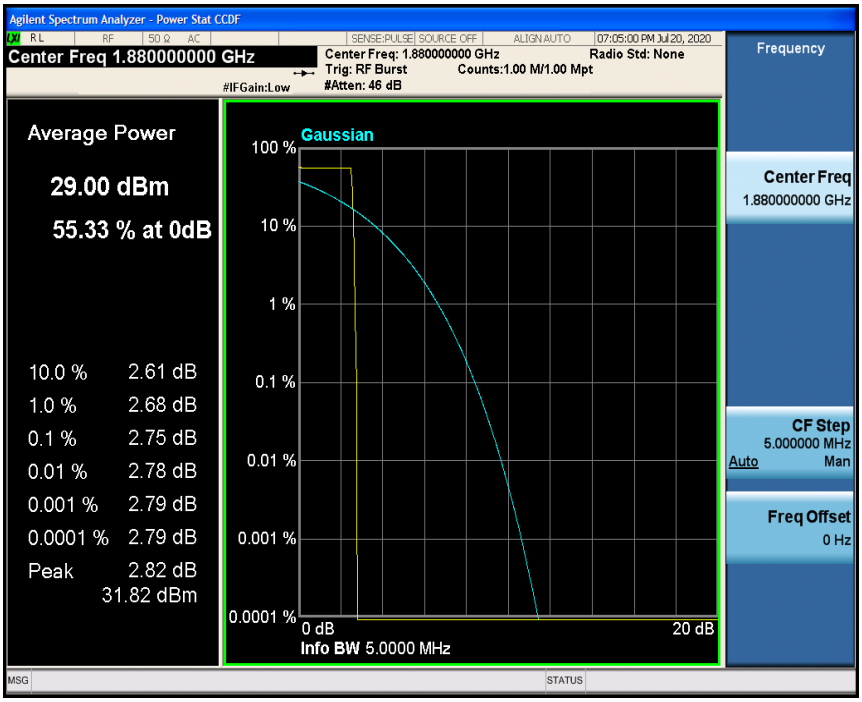

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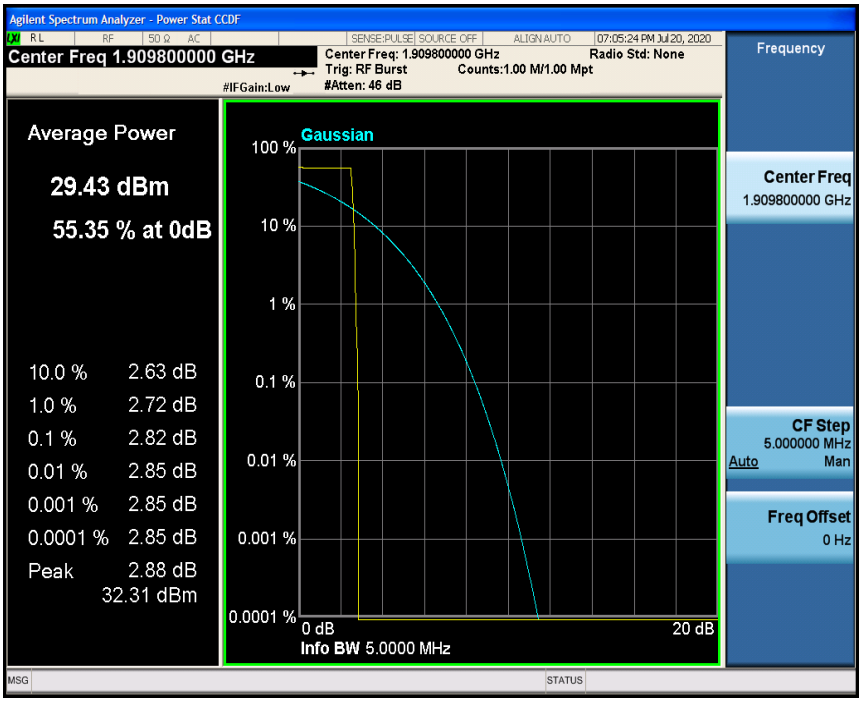

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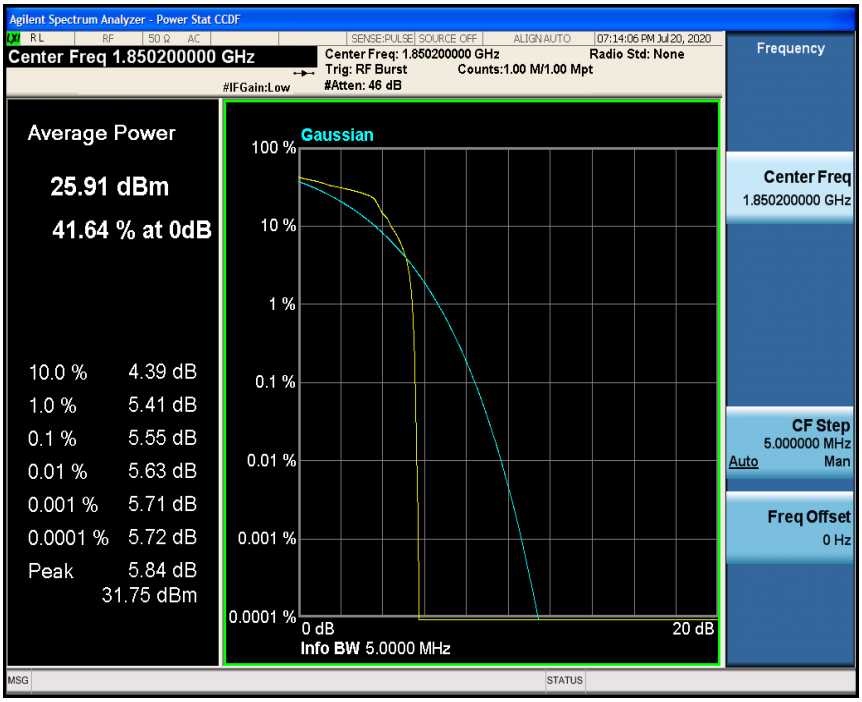

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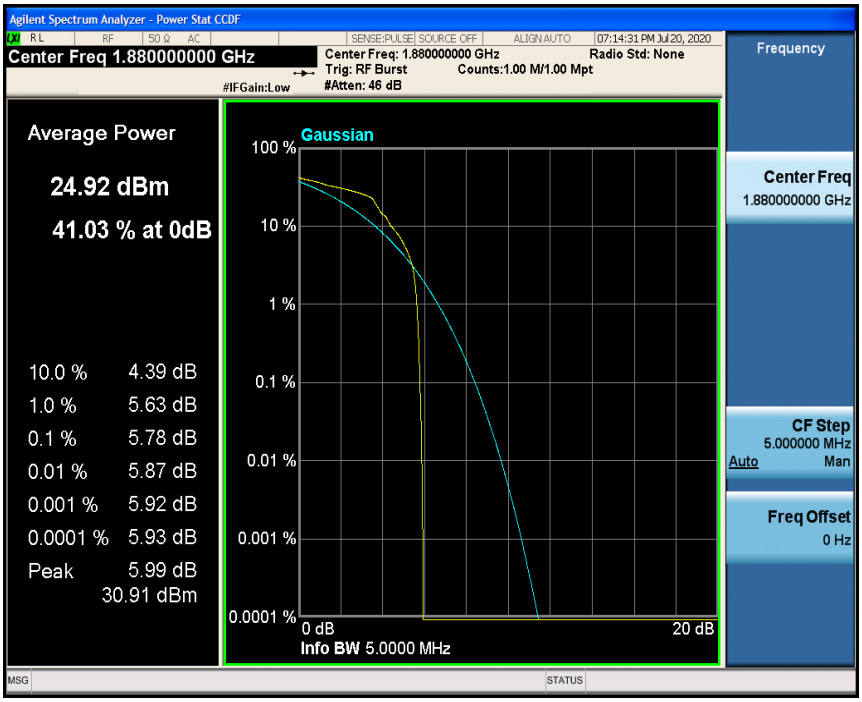

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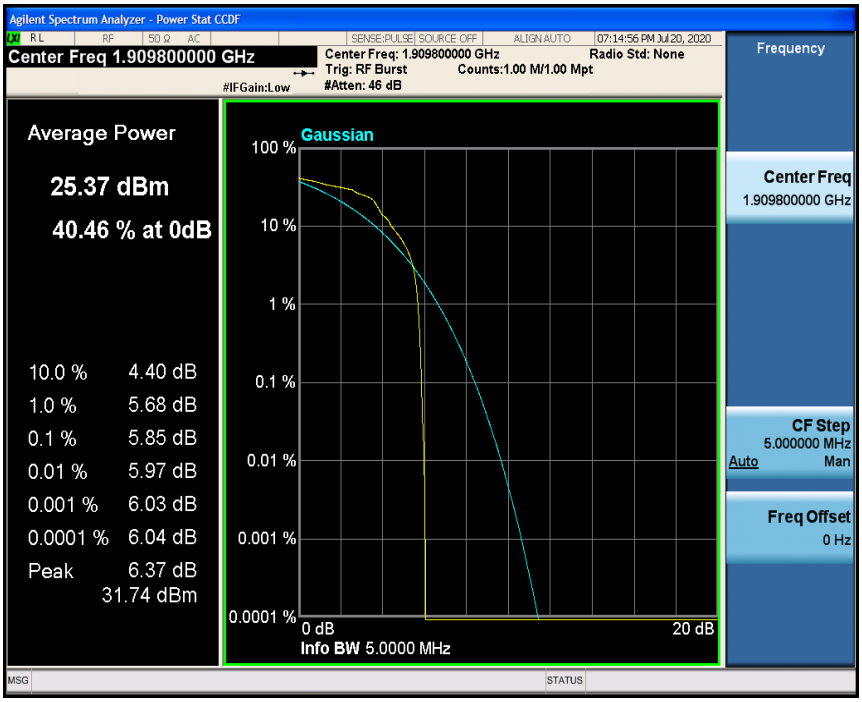

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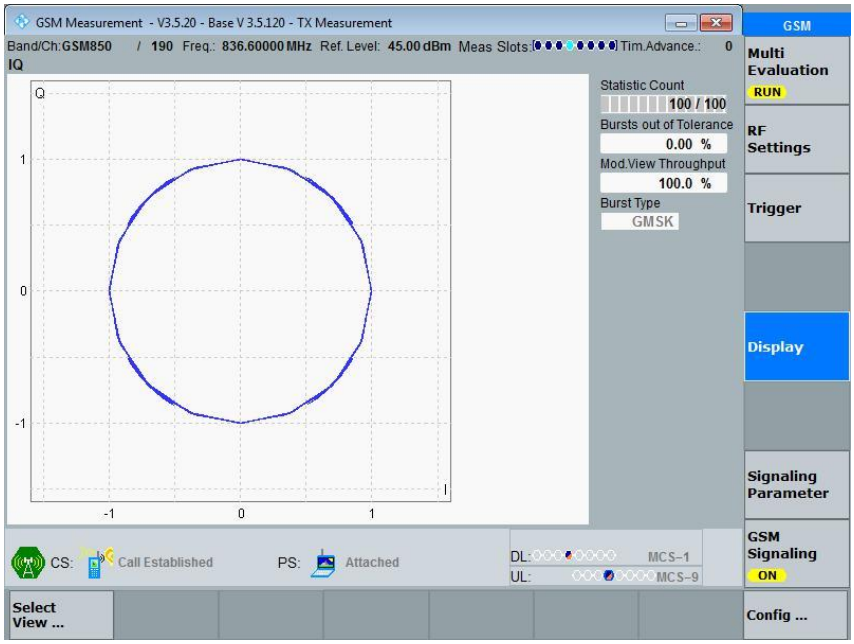
3. Modulation Characteristics

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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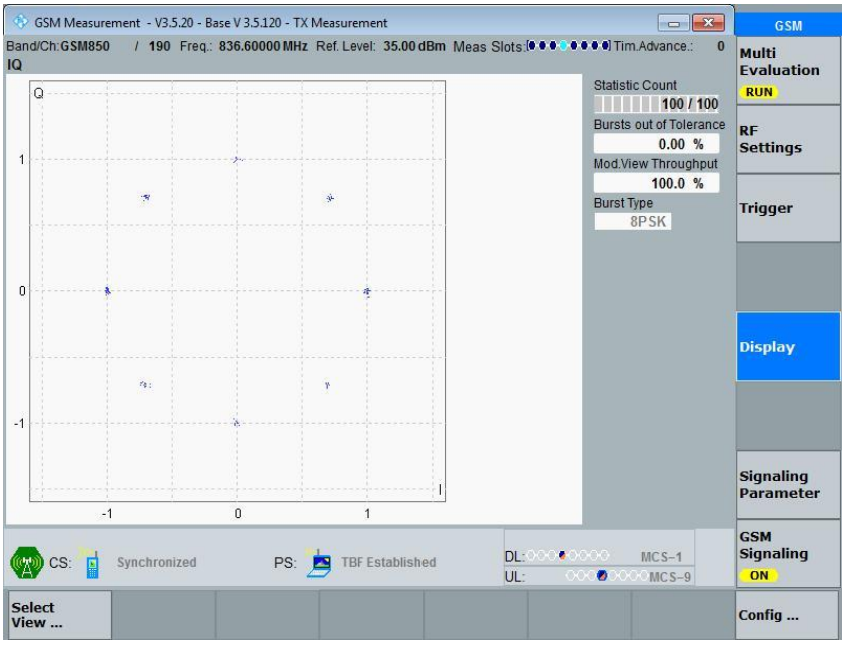
3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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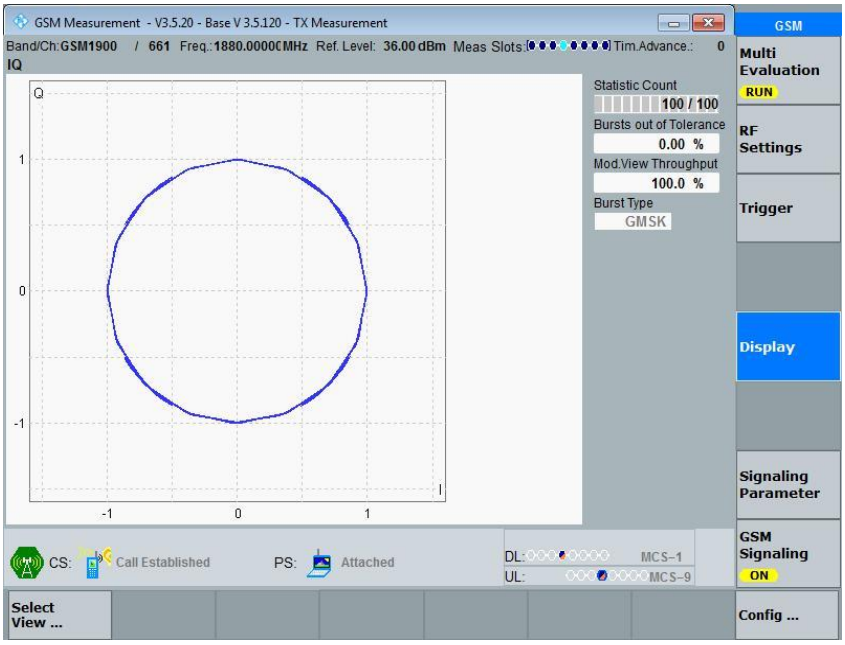
3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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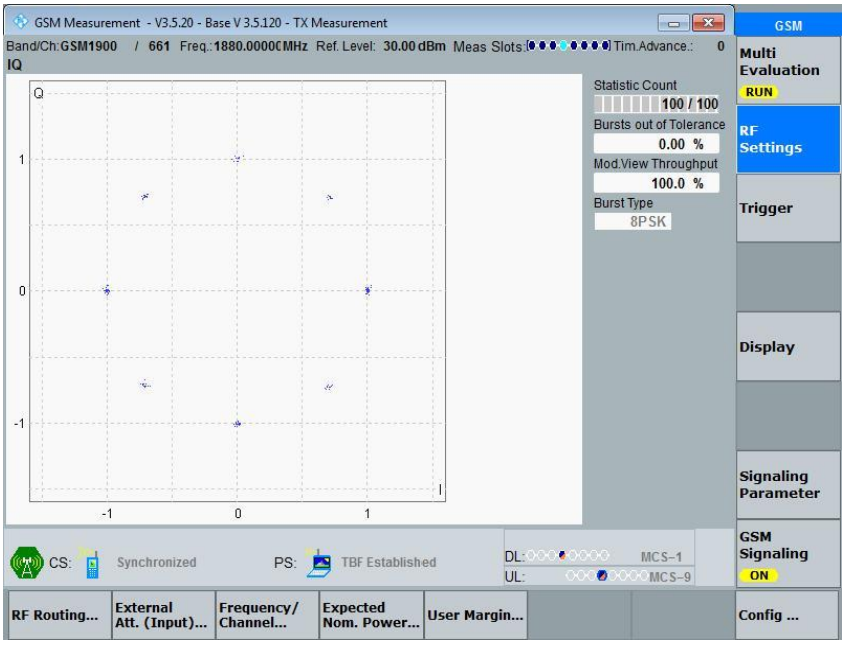
3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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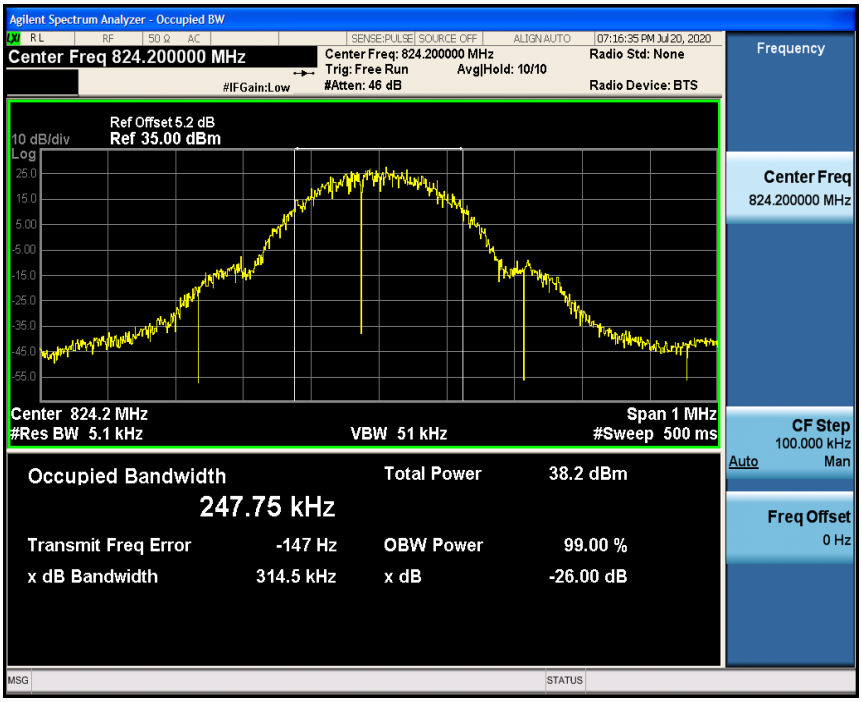
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	247.75	314.5	---	PASS
GSM850	190	245.00	316.6	---	PASS
GSM850	251	244.54	312.4	---	PASS
EGPRS850	128	238.30	284.4	---	PASS
EGPRS850	190	245.80	312.6	---	PASS
EGPRS850	251	247.40	303.6	---	PASS
GSM1900	512	243.85	310.8	---	PASS
GSM1900	661	244.53	315.7	---	PASS
GSM1900	810	243.04	302.3	---	PASS
EGPRS1900	512	245.54	310.0	---	PASS
EGPRS1900	661	247.11	311.9	---	PASS
EGPRS1900	810	245.53	302.1	---	PASS

4.2. Test Plots

GSM850_128



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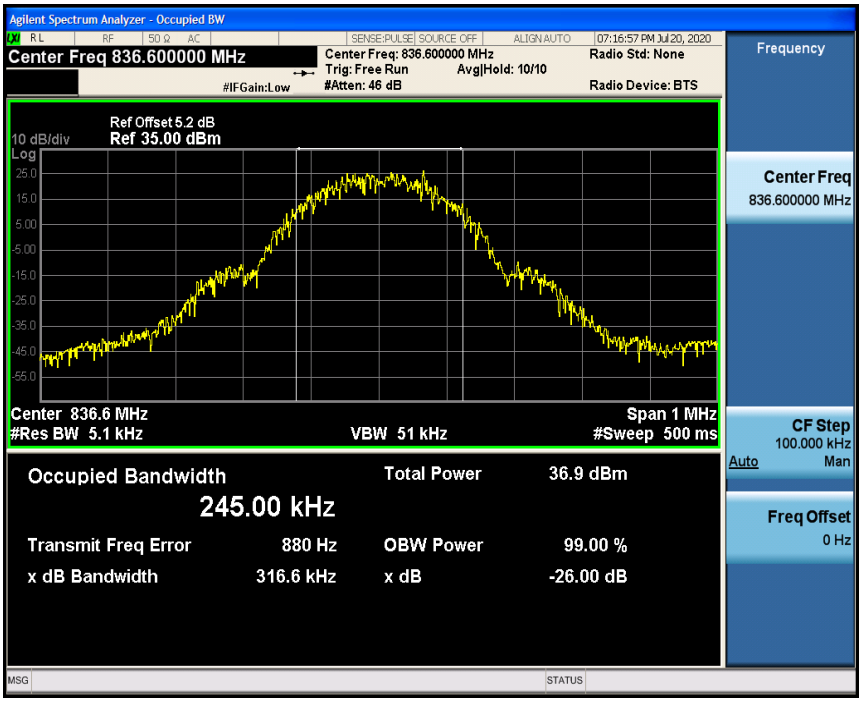

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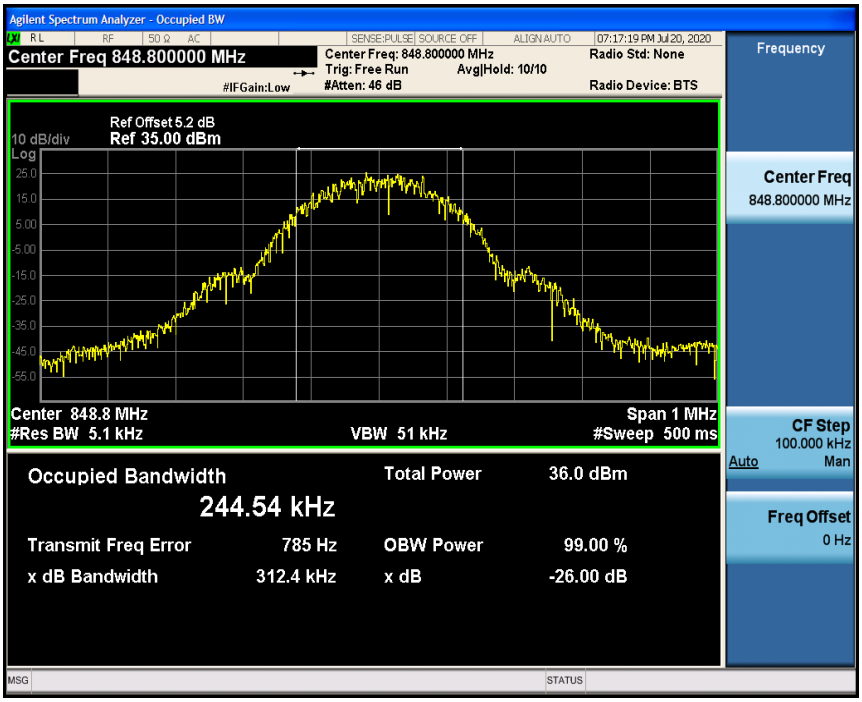

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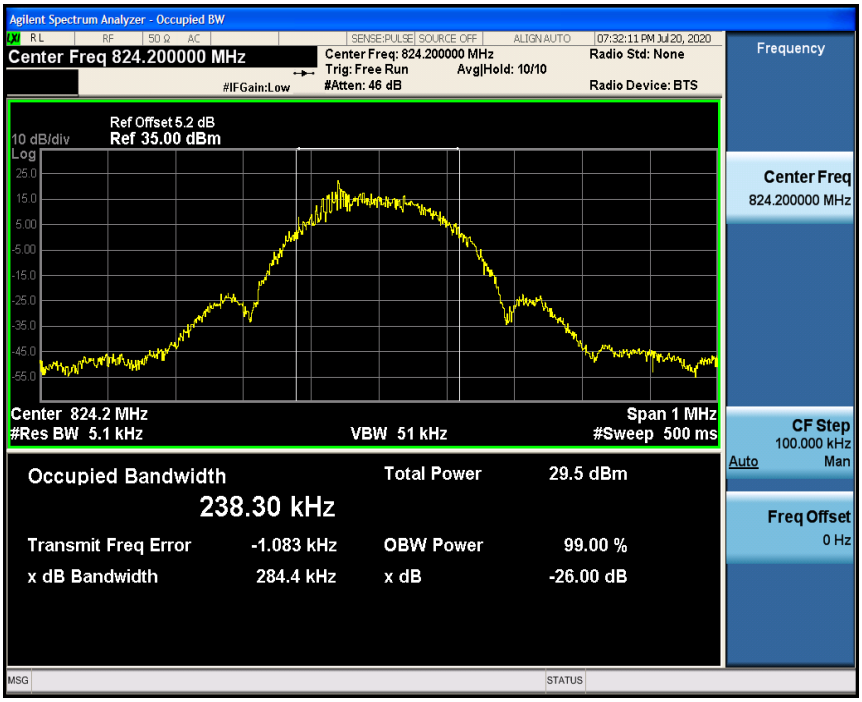

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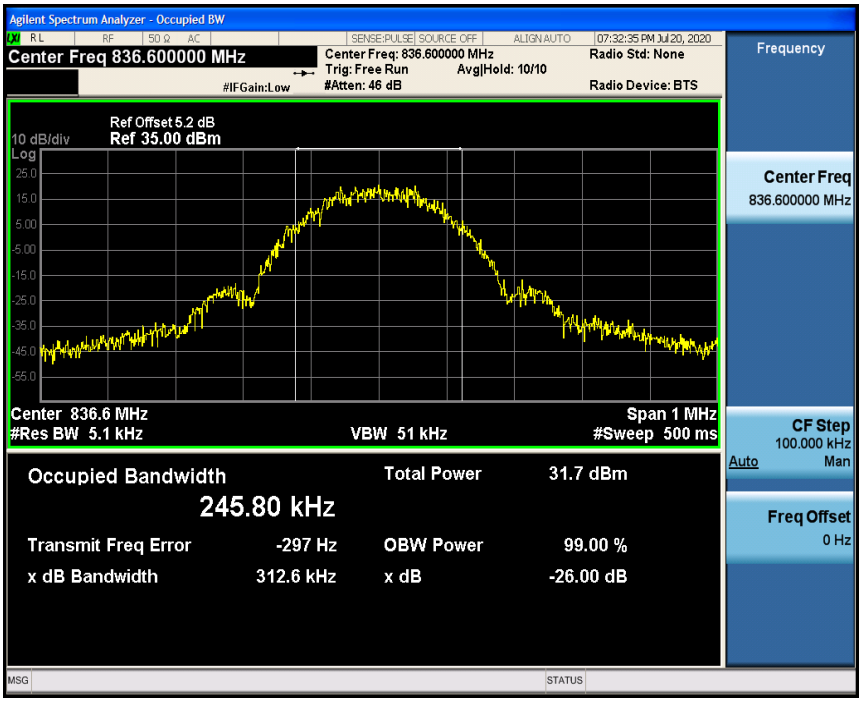

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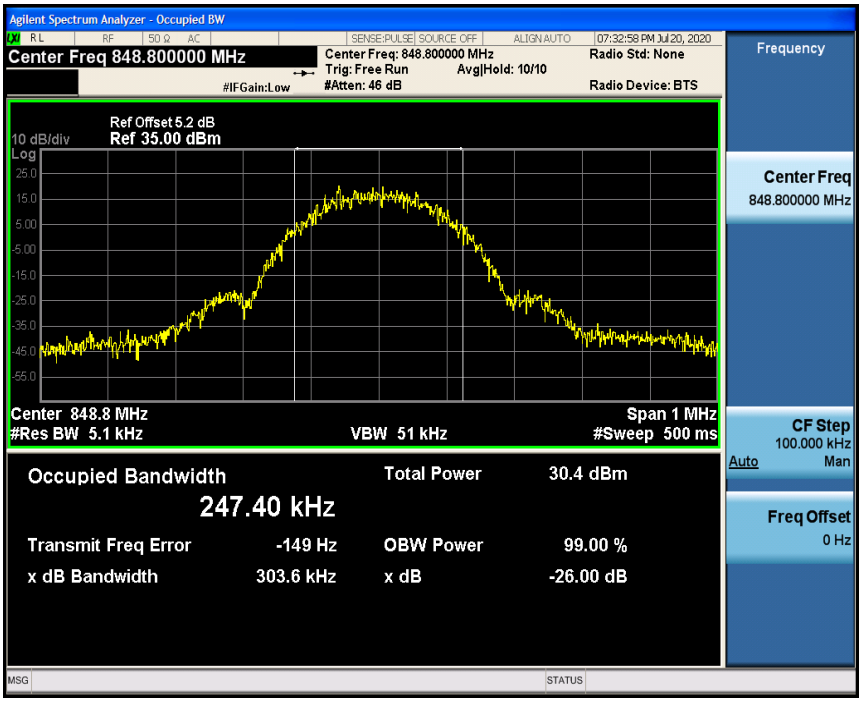
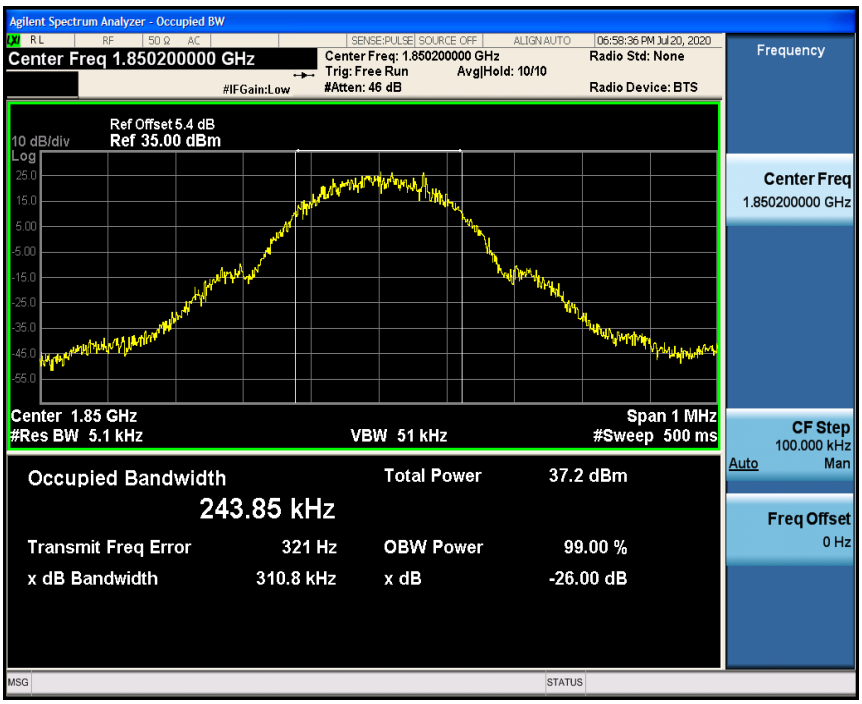


GSM1900_512



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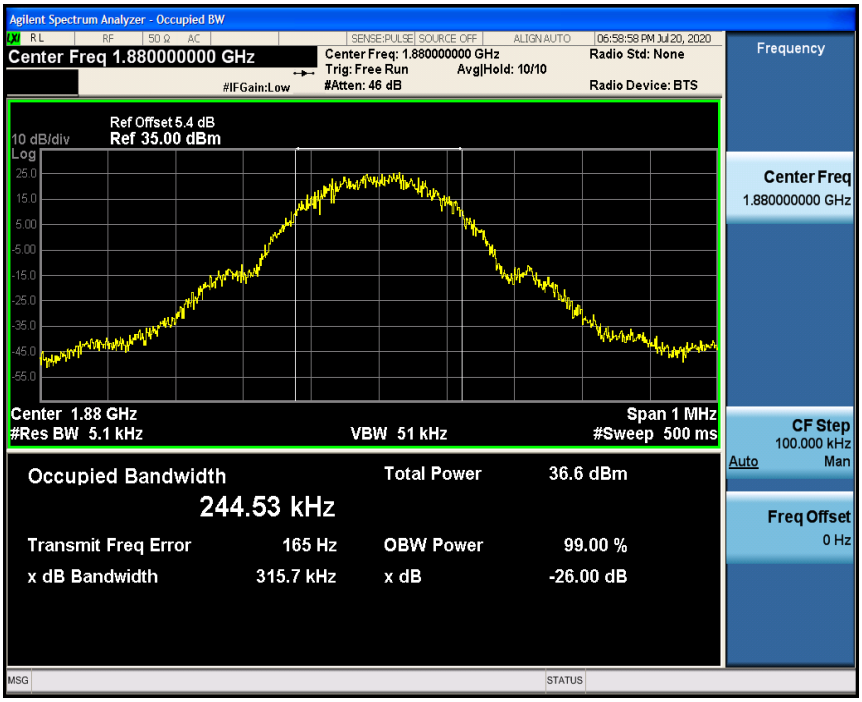
GSM1900_661



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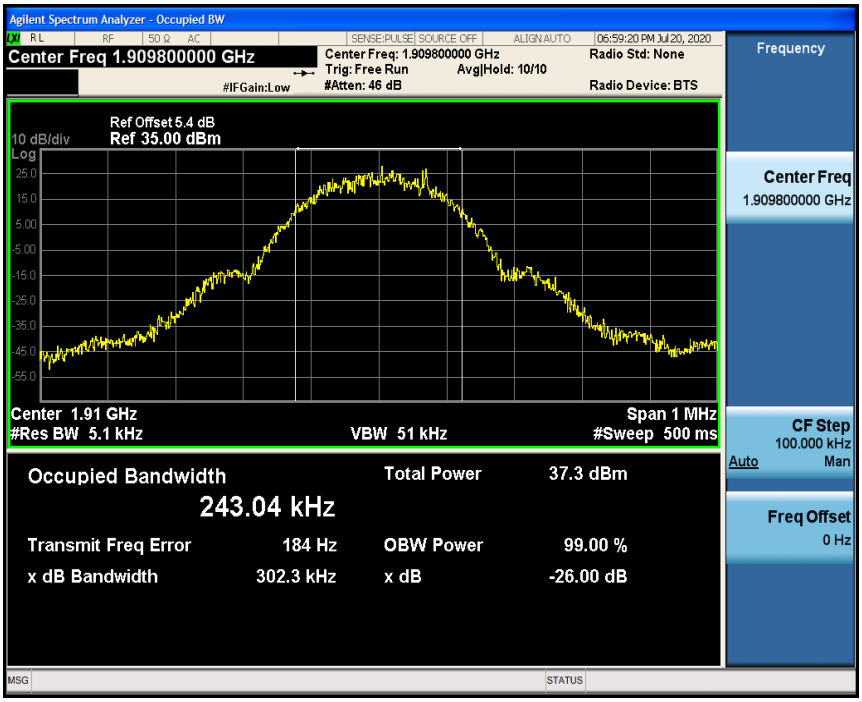

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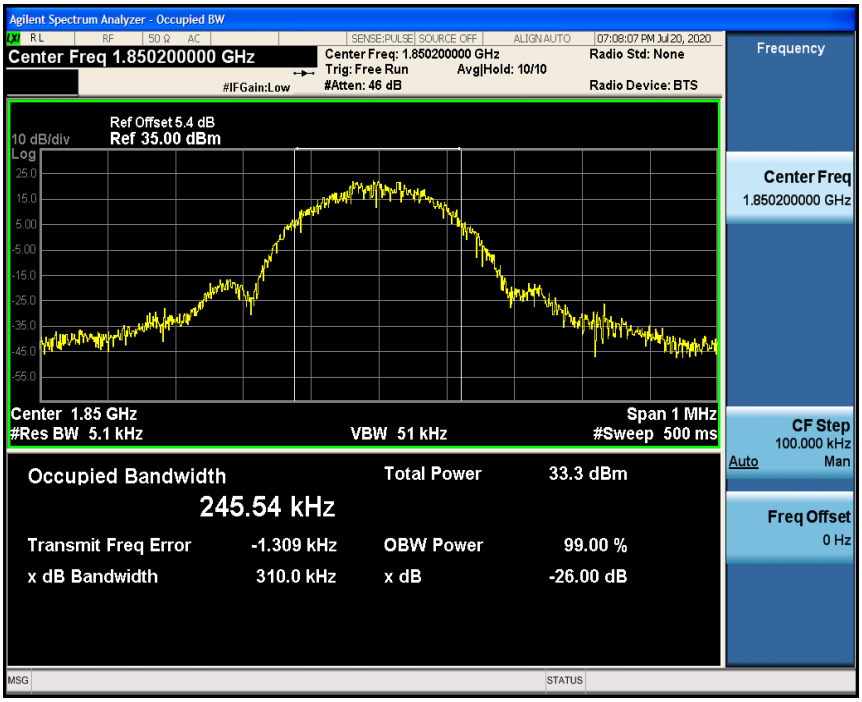

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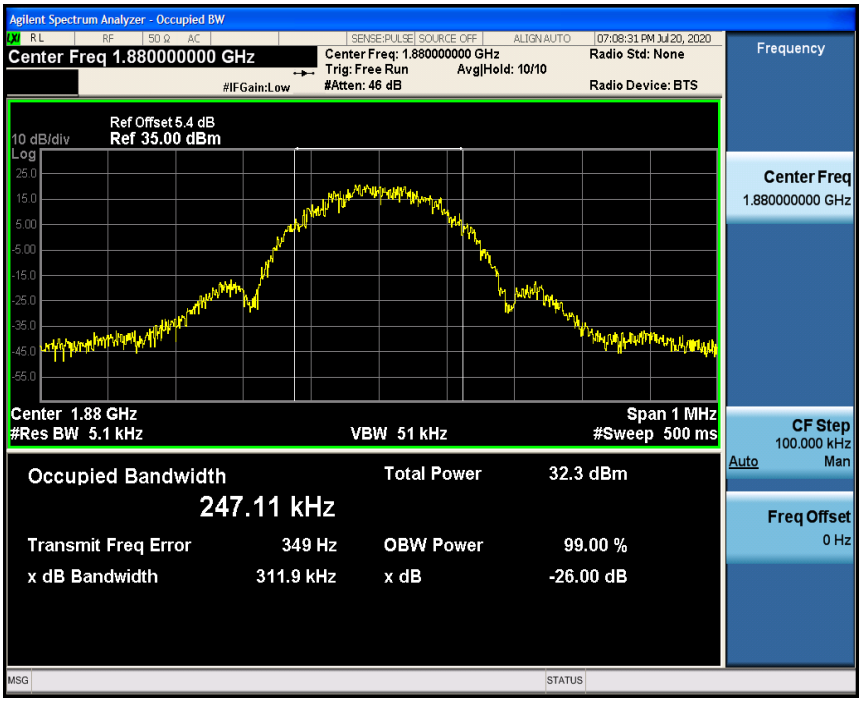

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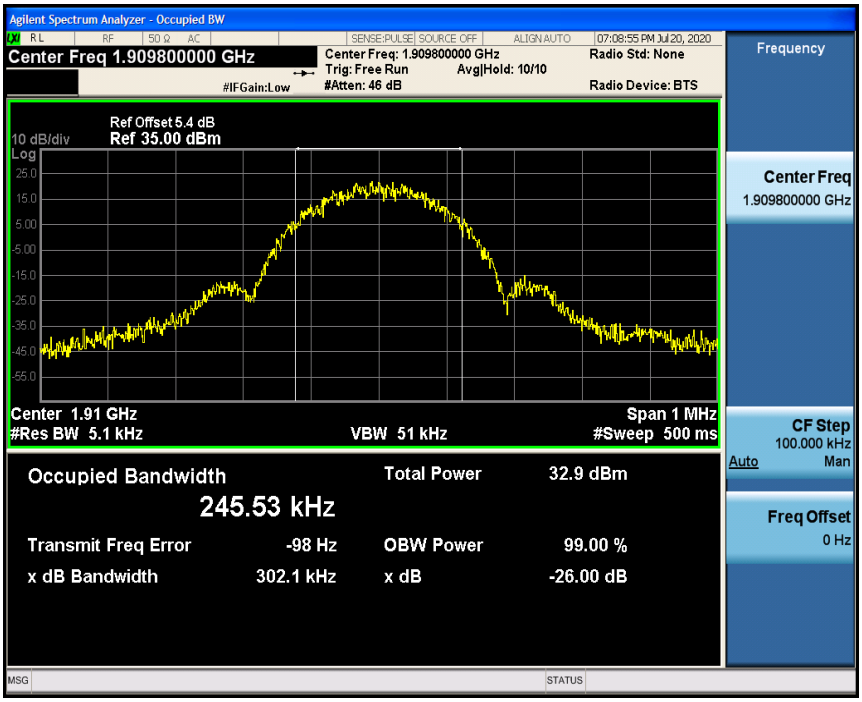
EGPRS1900_810



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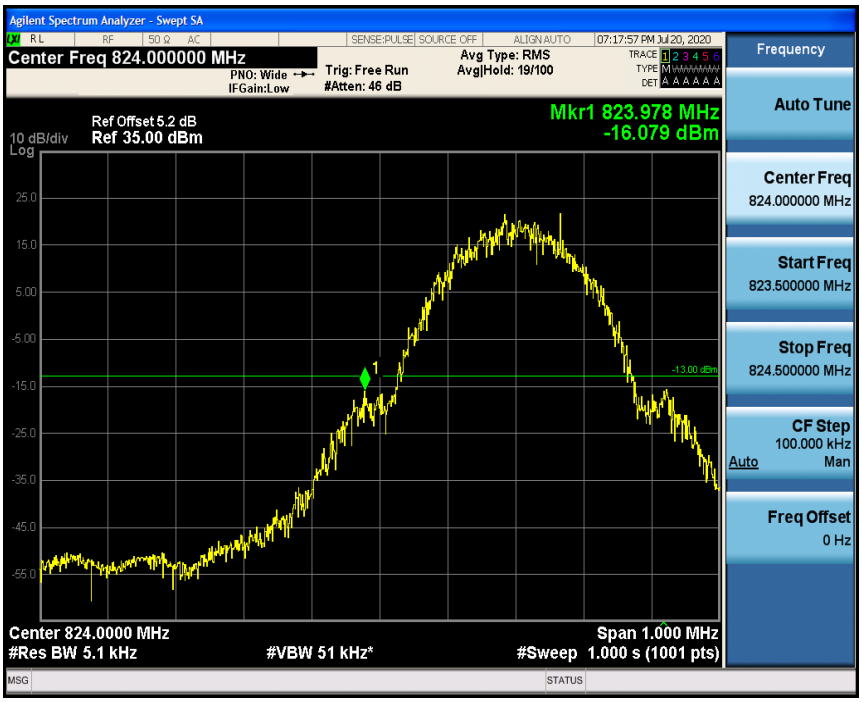
5. Band Edge Compliance

5.1. Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	-16.08	-13	PASS
GSM850	251	-16.63	-13	PASS
EGPRS850	128	-28.16	-13	PASS
EGPRS850	251	-28.07	-13	PASS
GSM1900	512	-18.56	-13	PASS
GSM1900	810	-17.60	-13	PASS
EGPRS1900	512	-22.81	-13	PASS
EGPRS1900	810	-22.24	-13	PASS

5.2. Test Plots

GSM850_128



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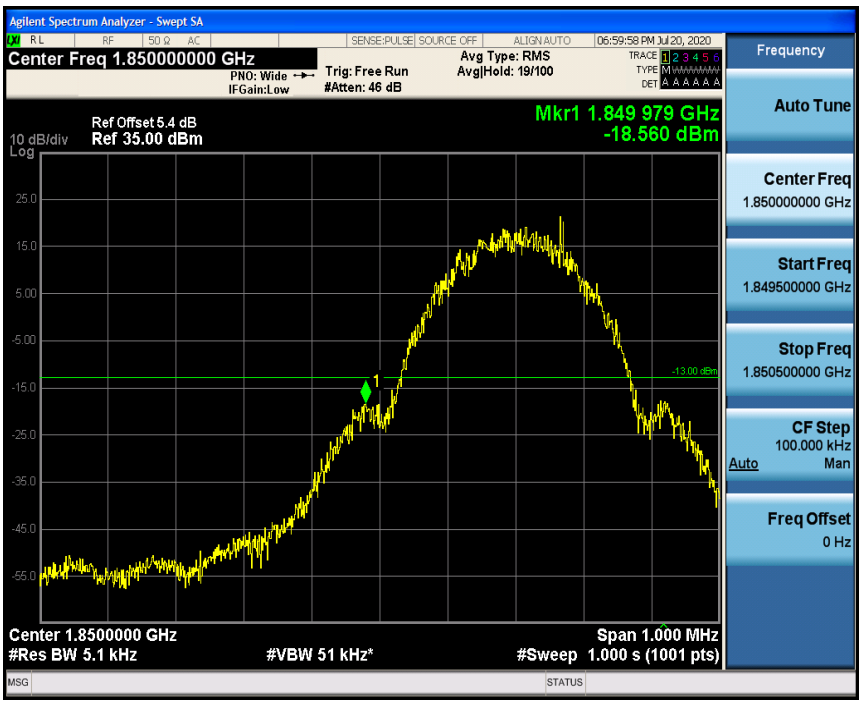
GSM1900_512



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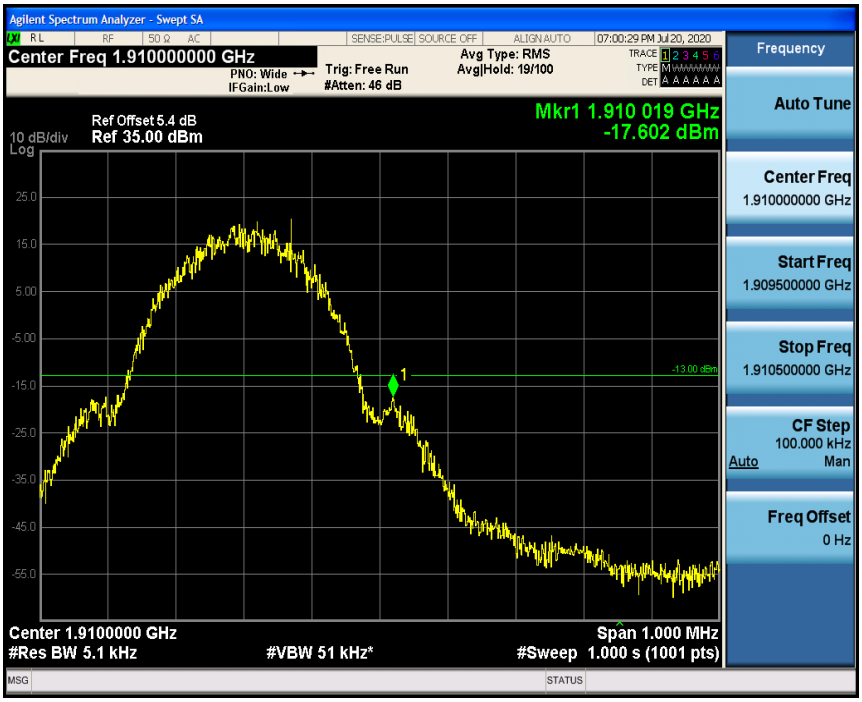

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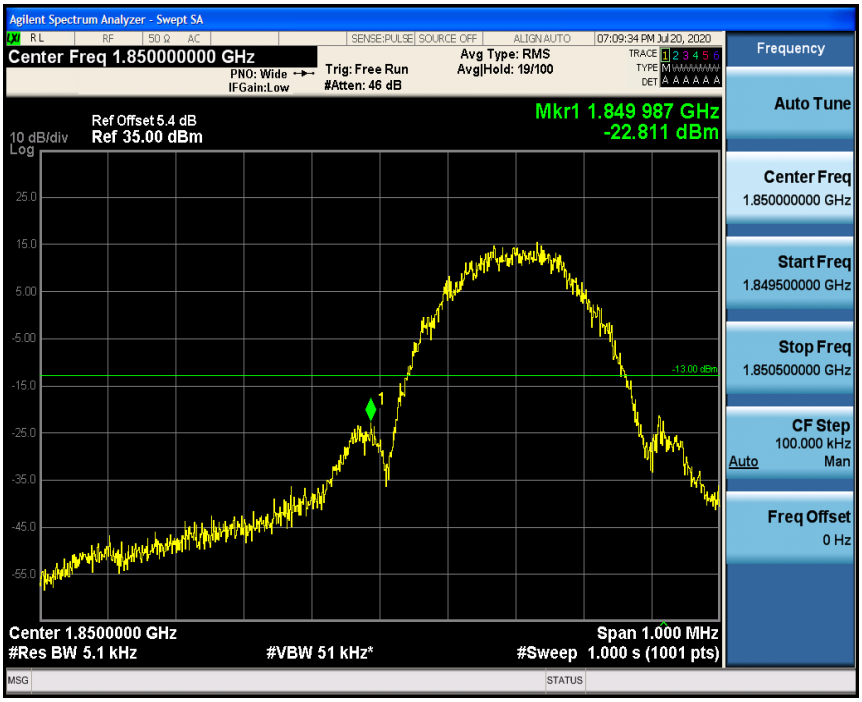

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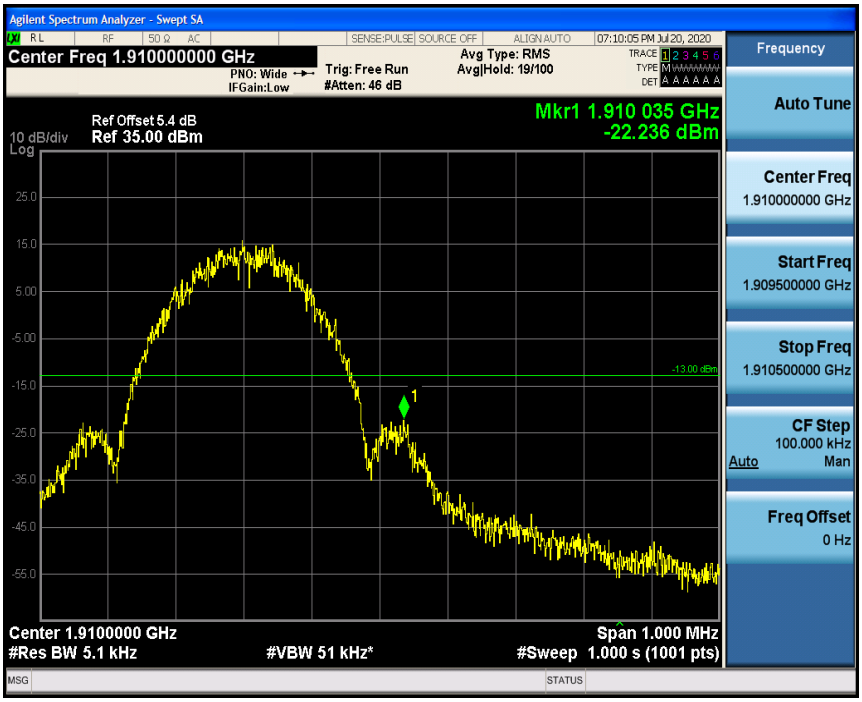

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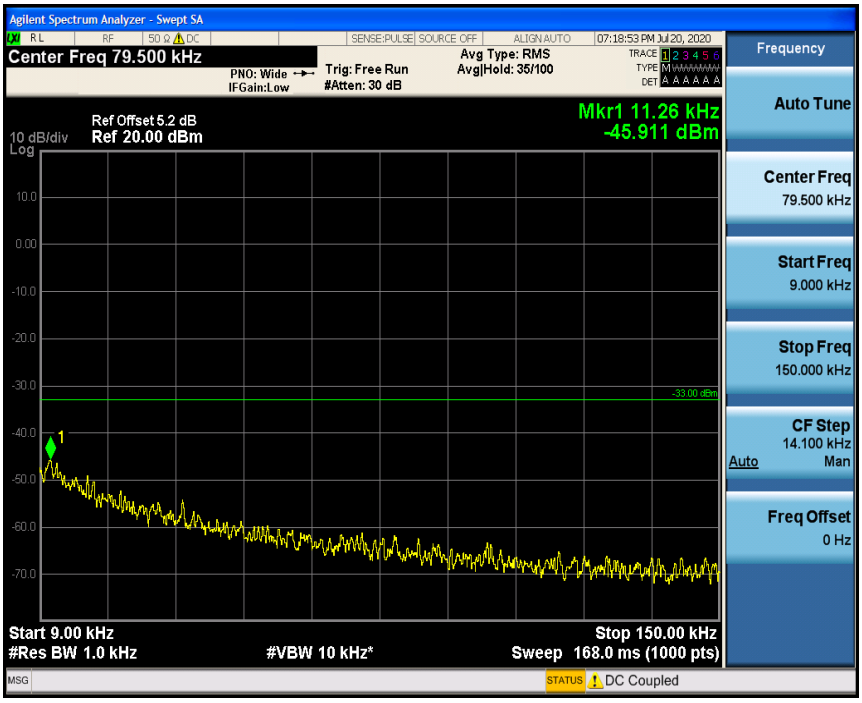
6. Spurious Emission at Antenna Terminal

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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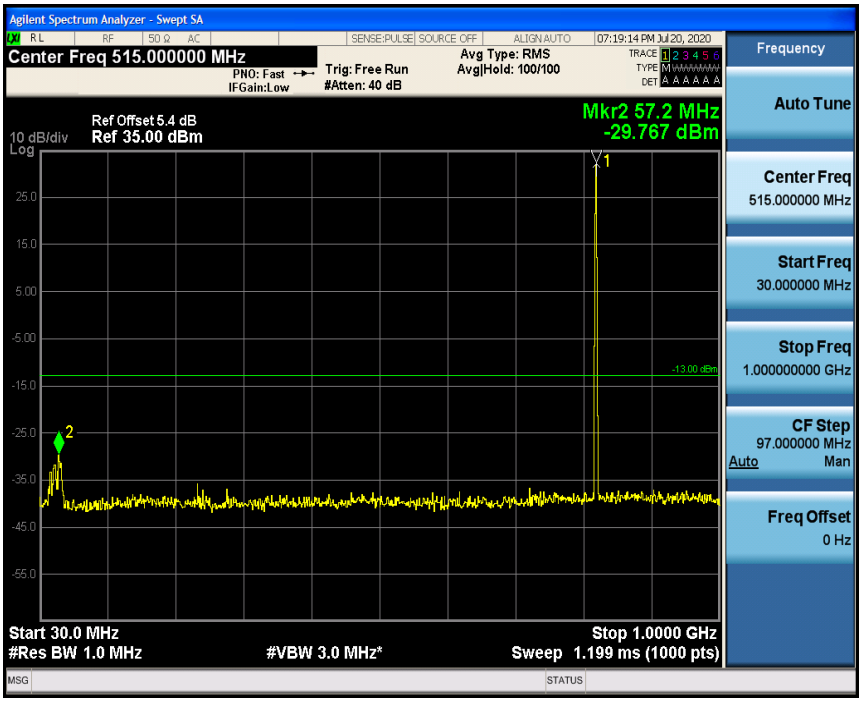

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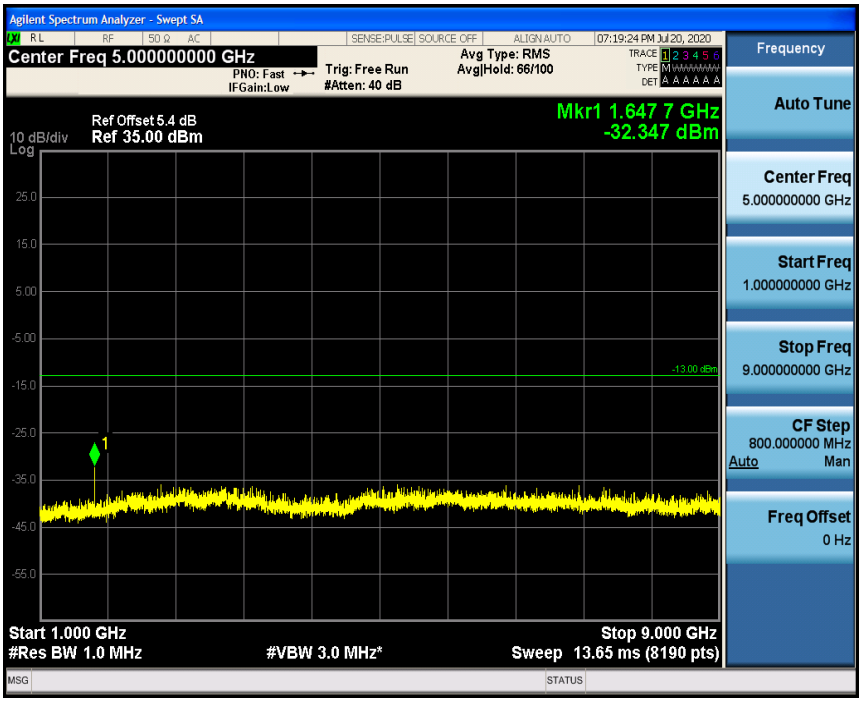

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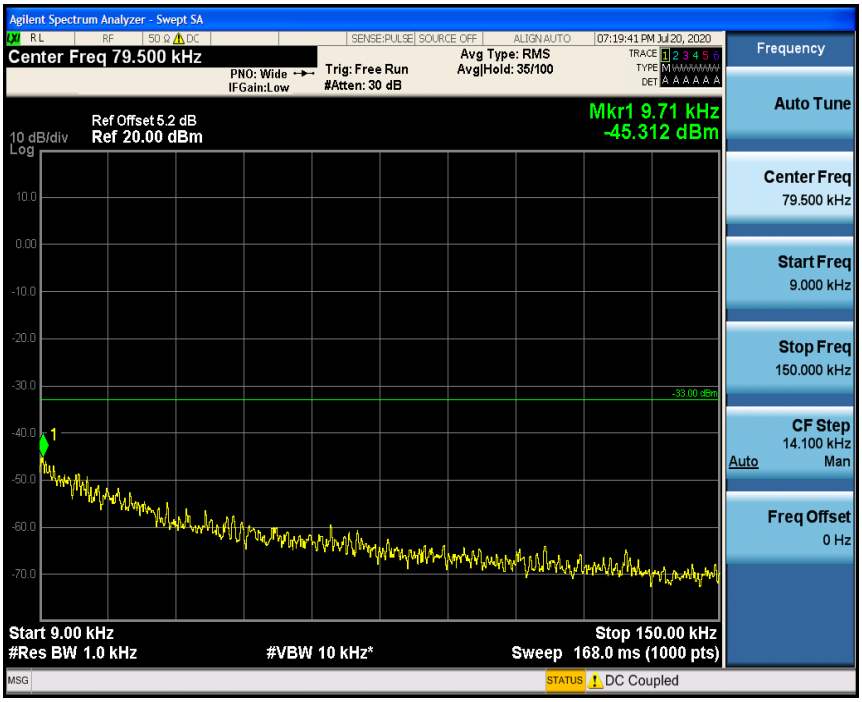

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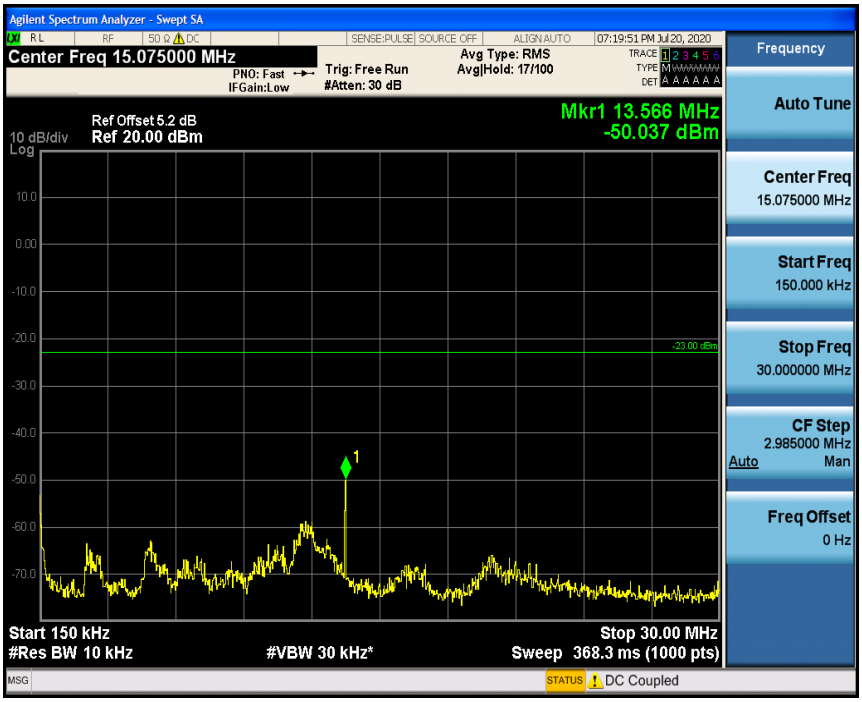

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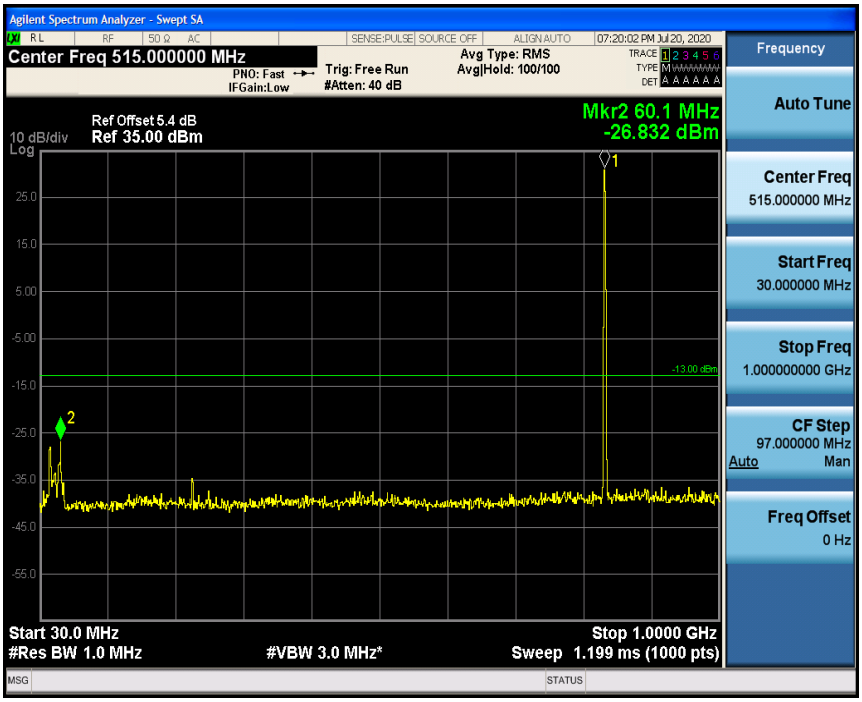

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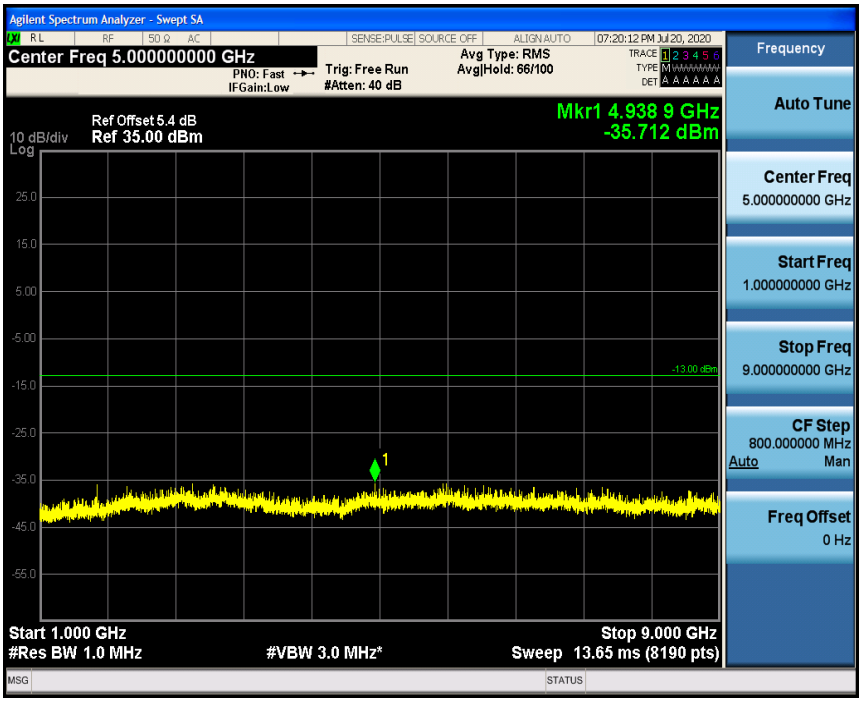

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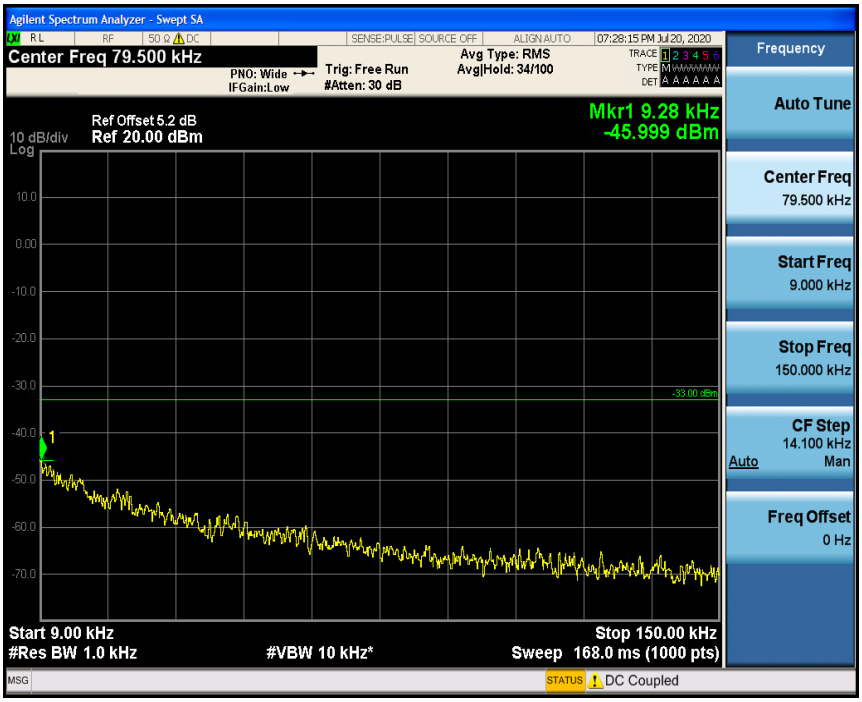

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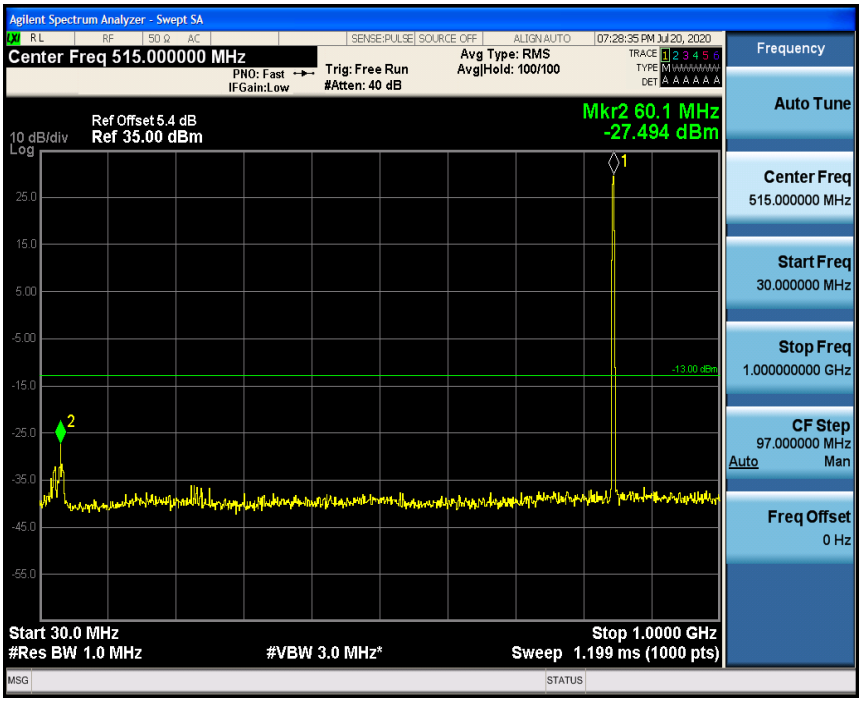

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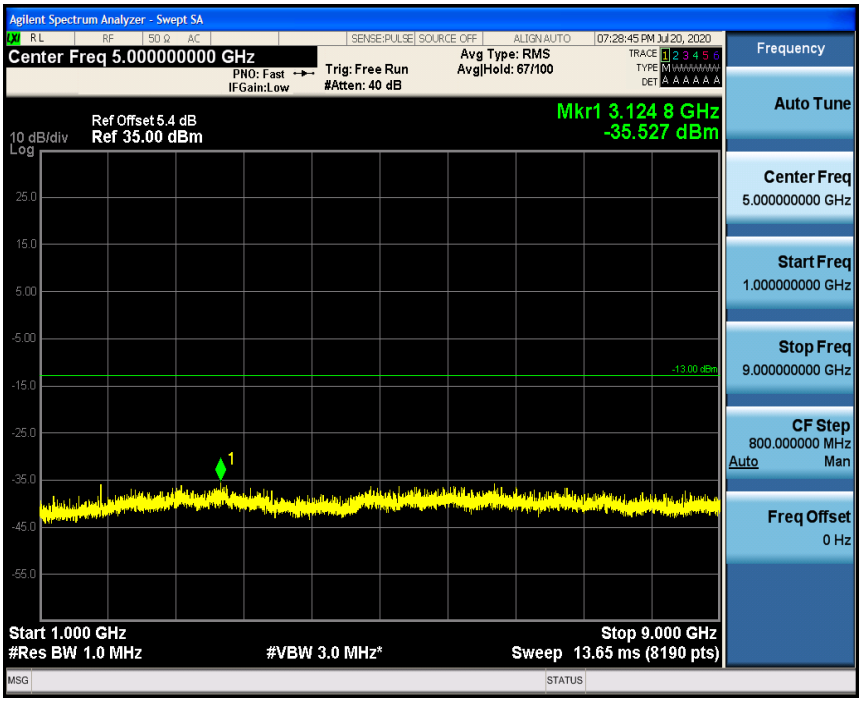

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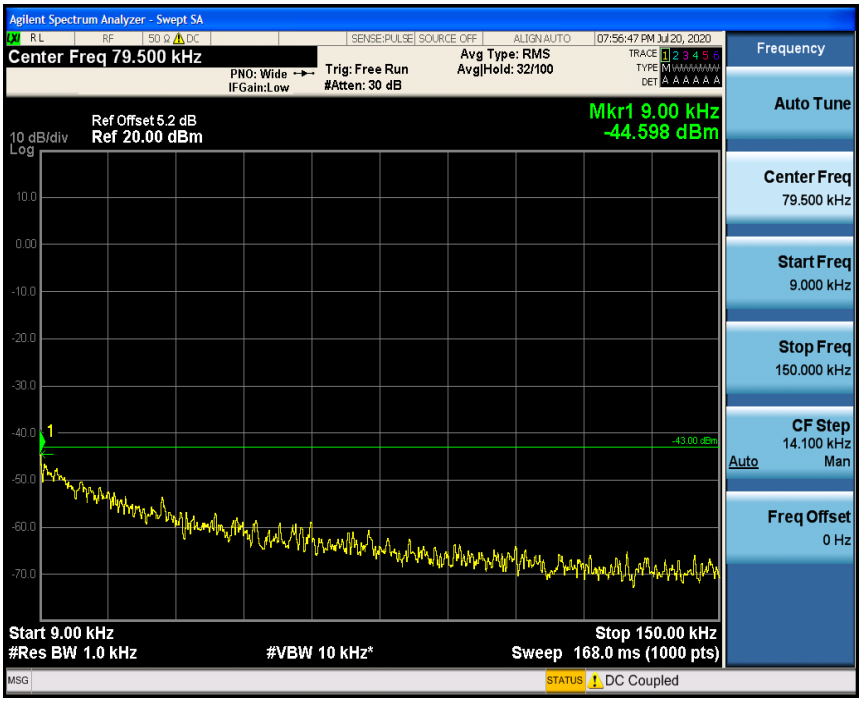

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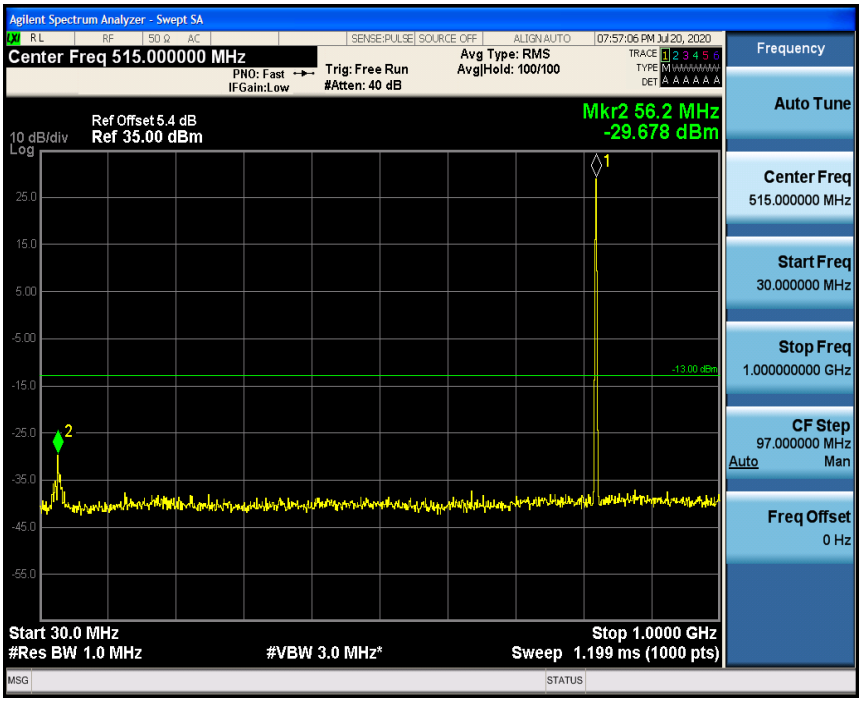

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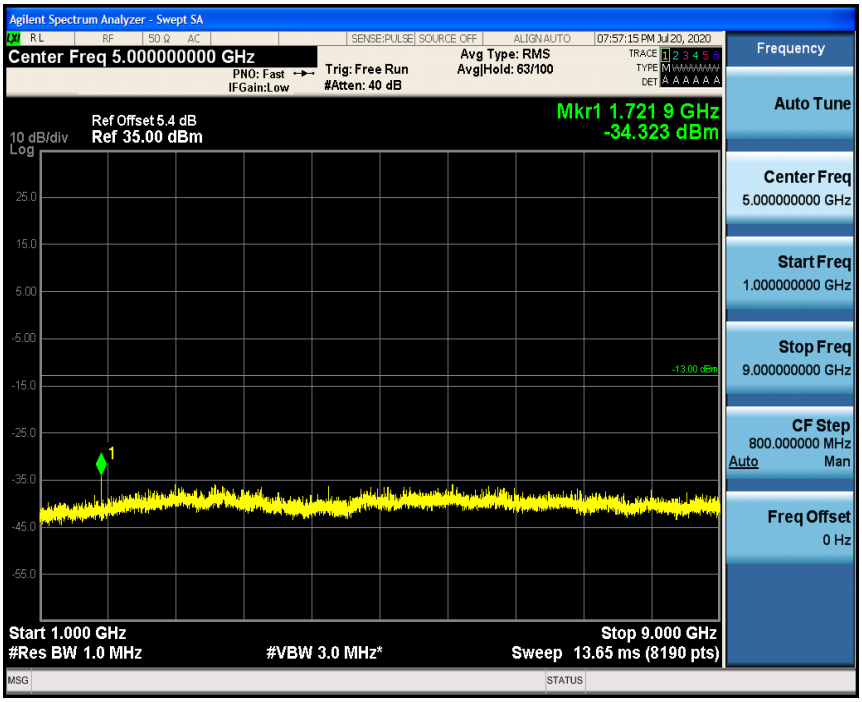

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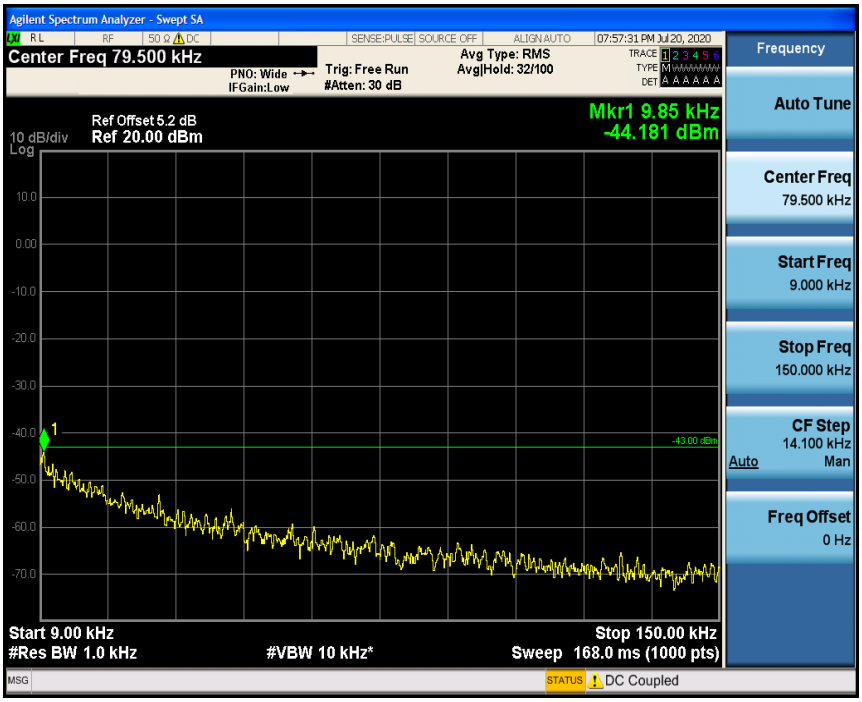

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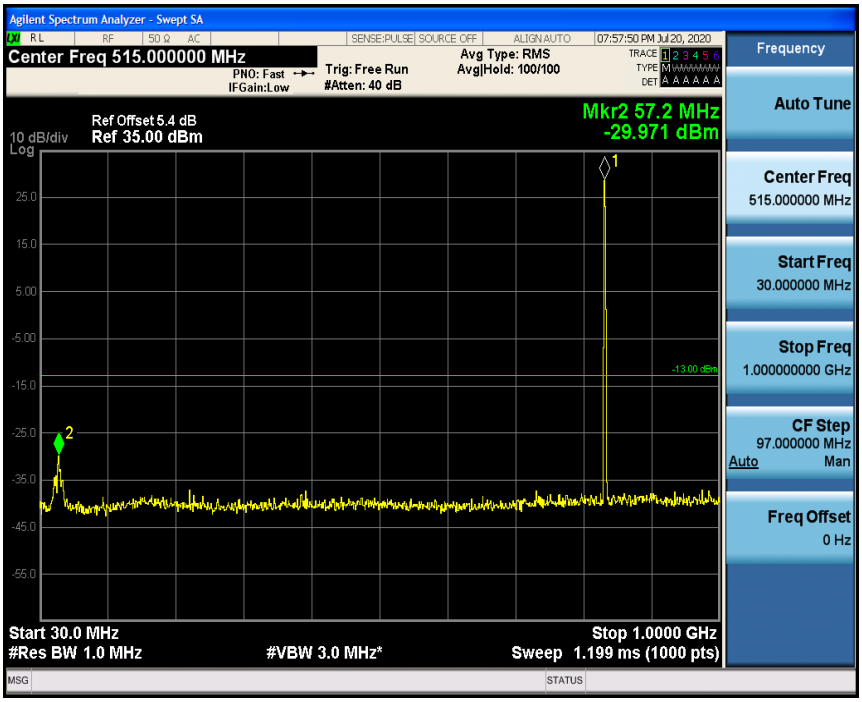

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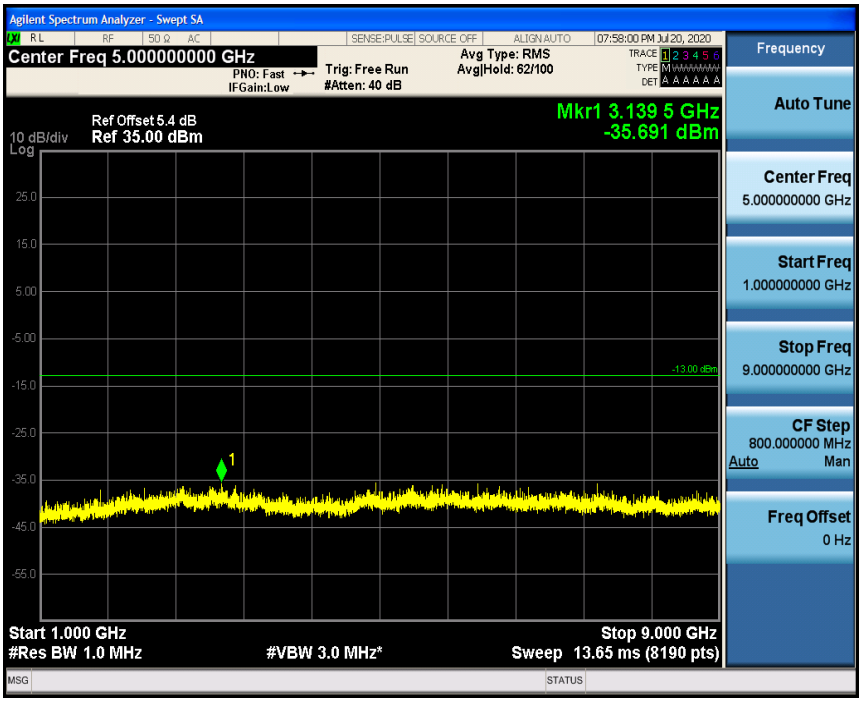

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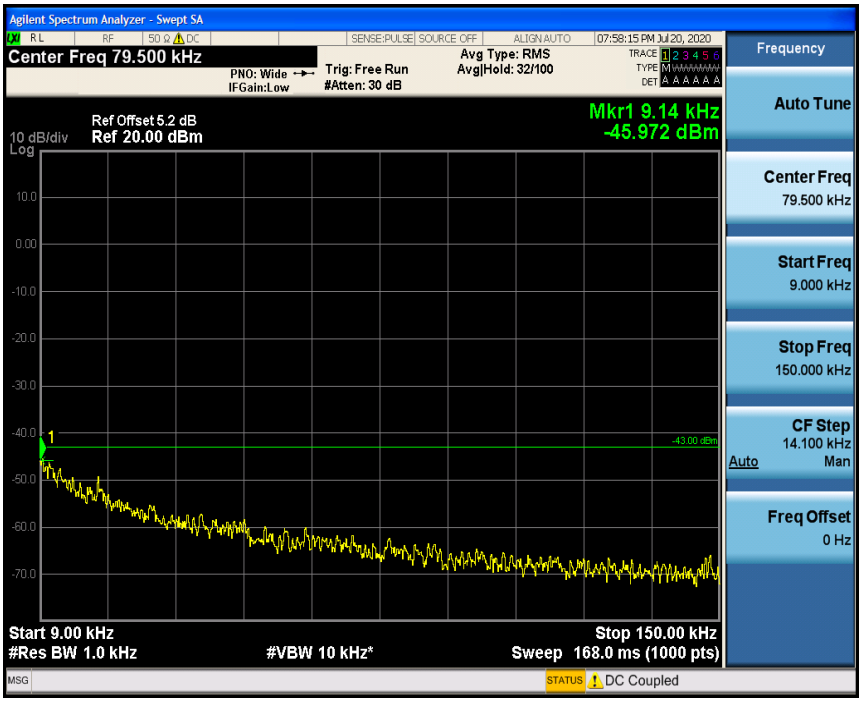

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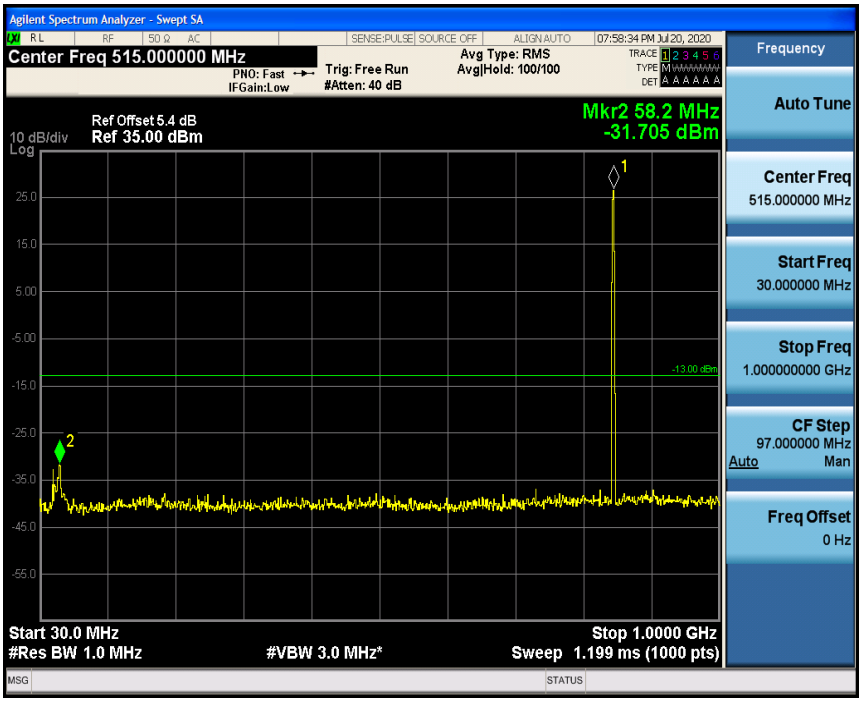

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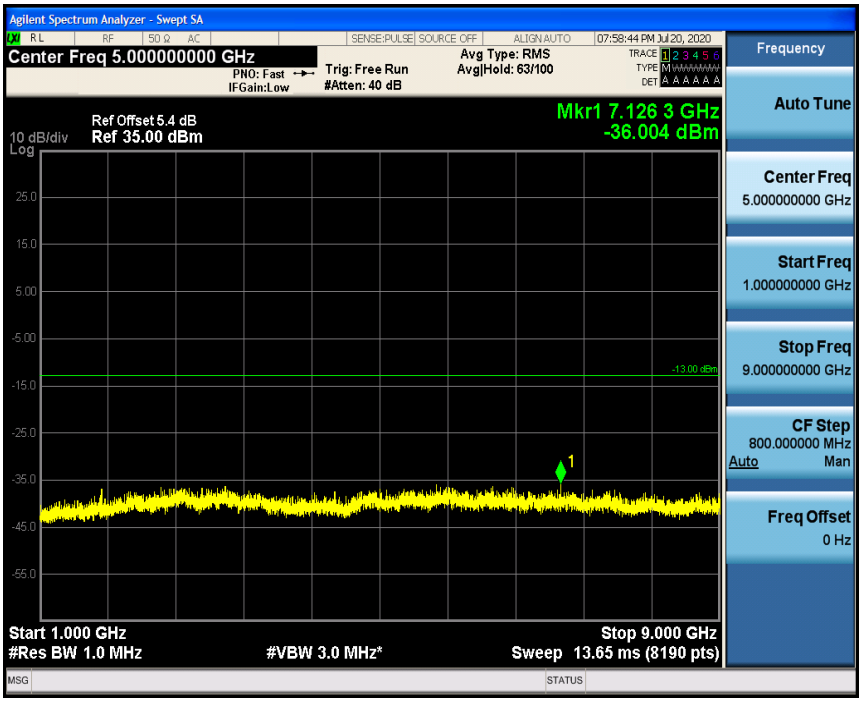

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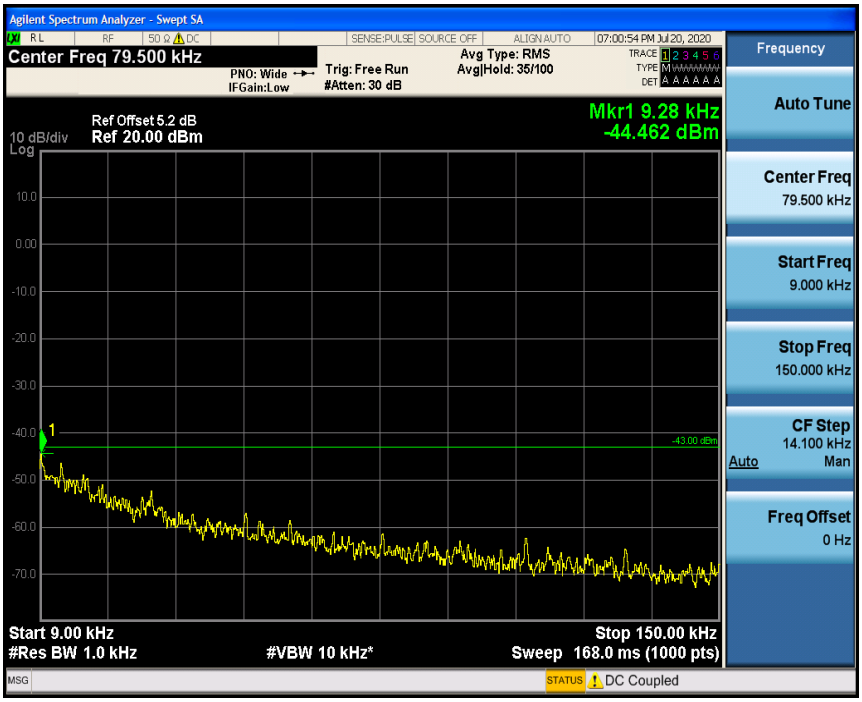

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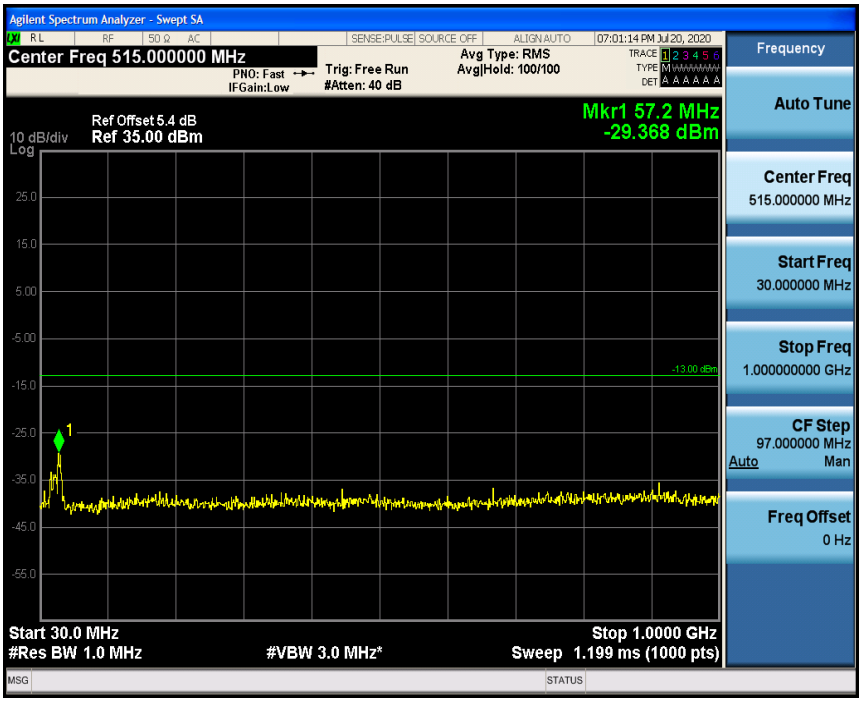

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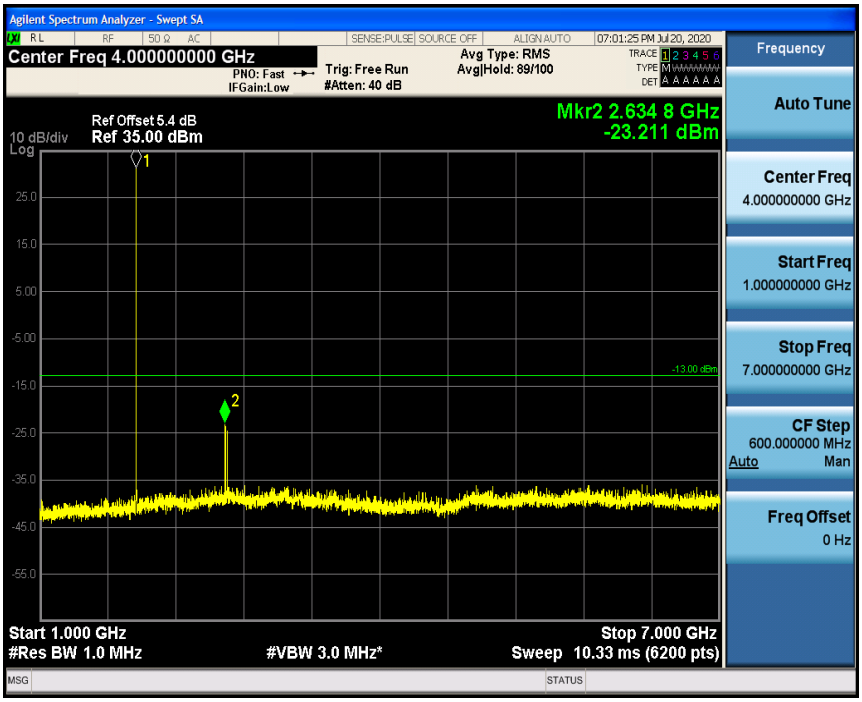

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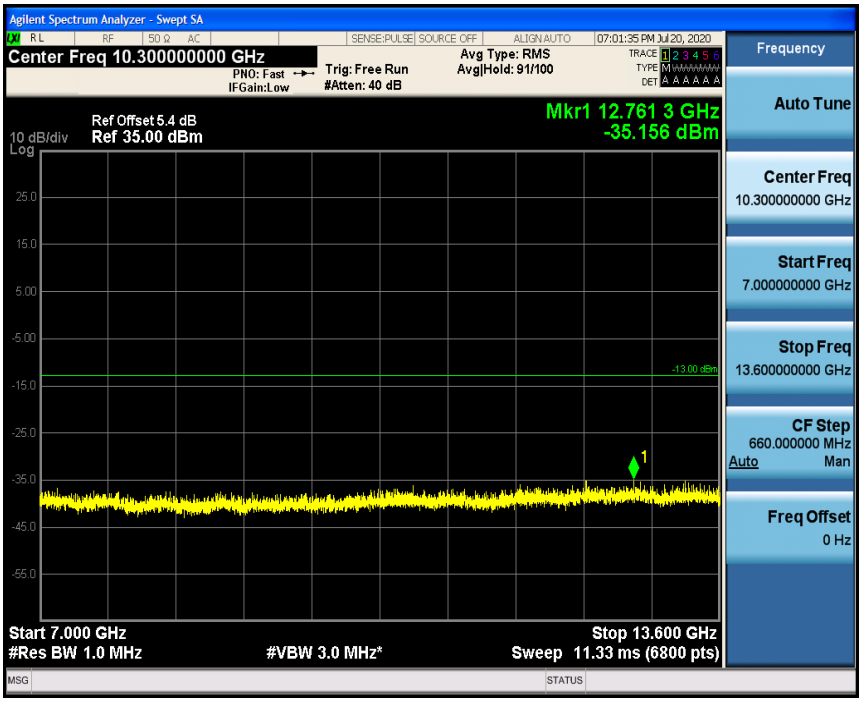

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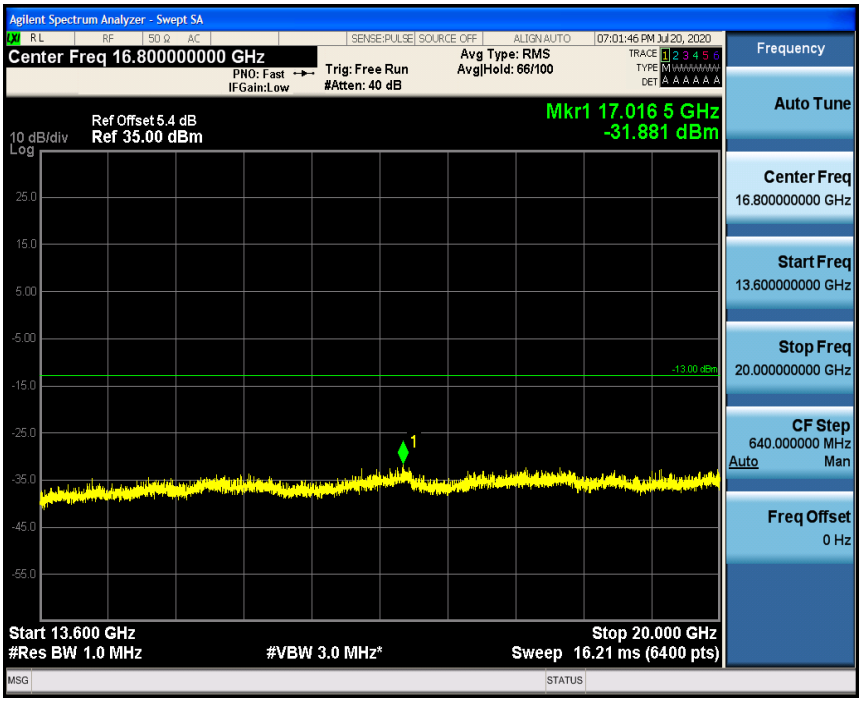

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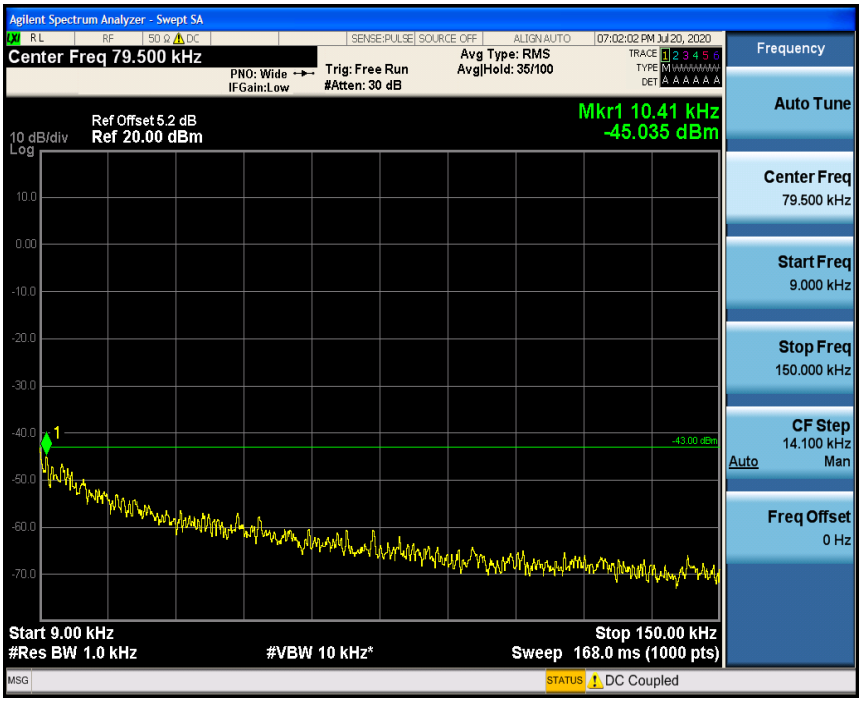

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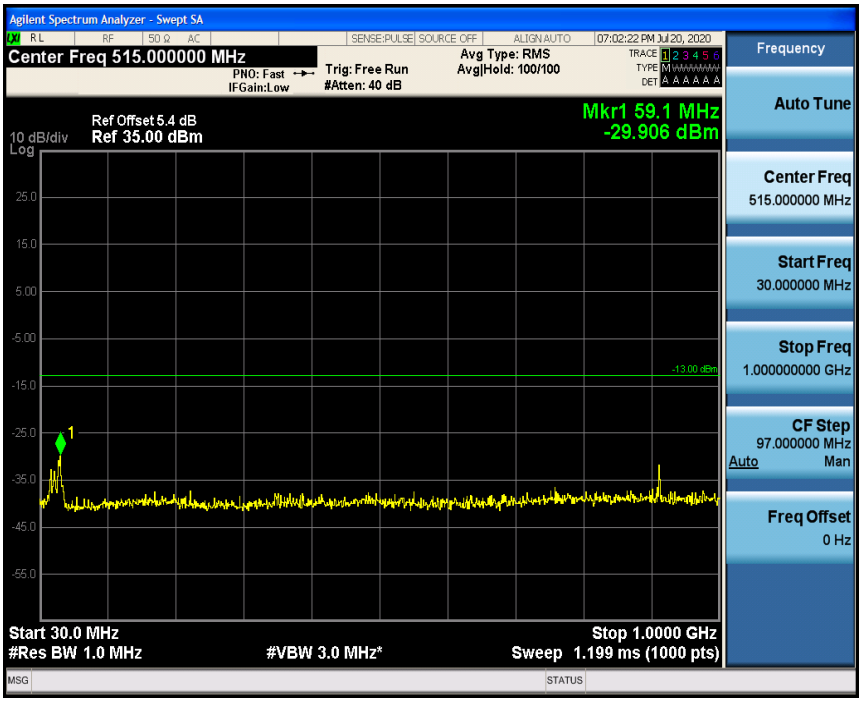

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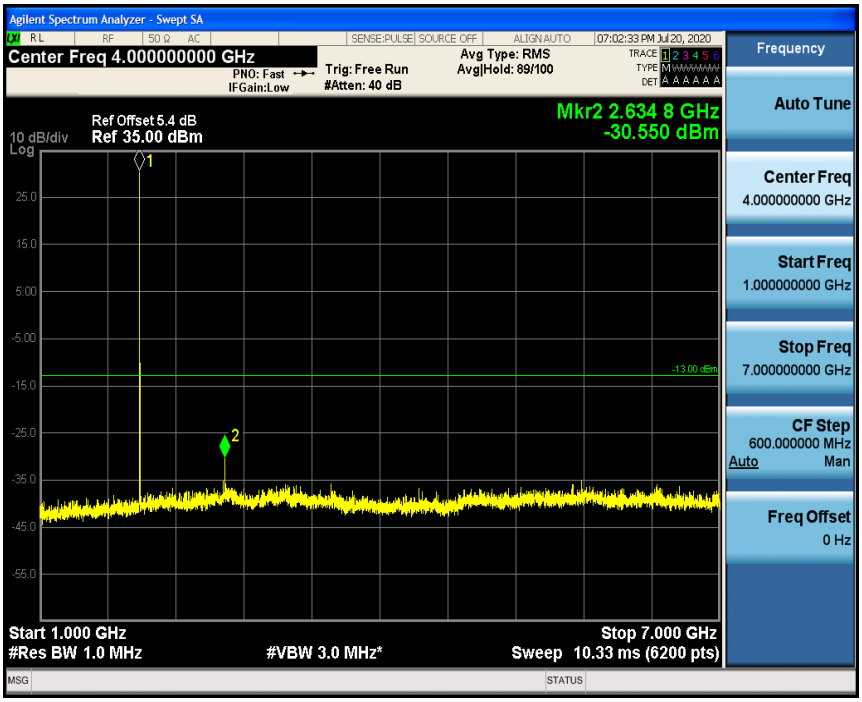

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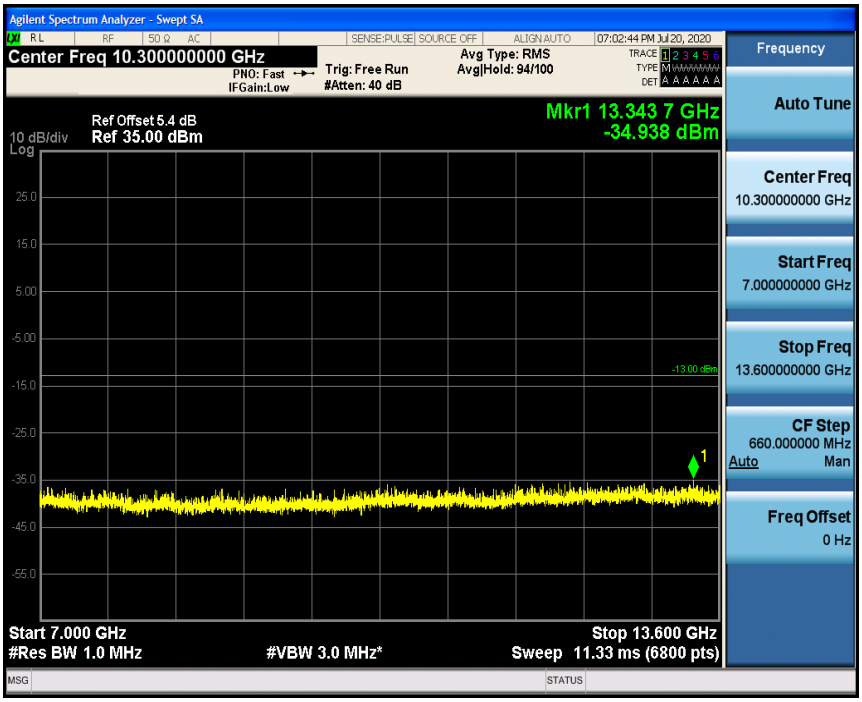

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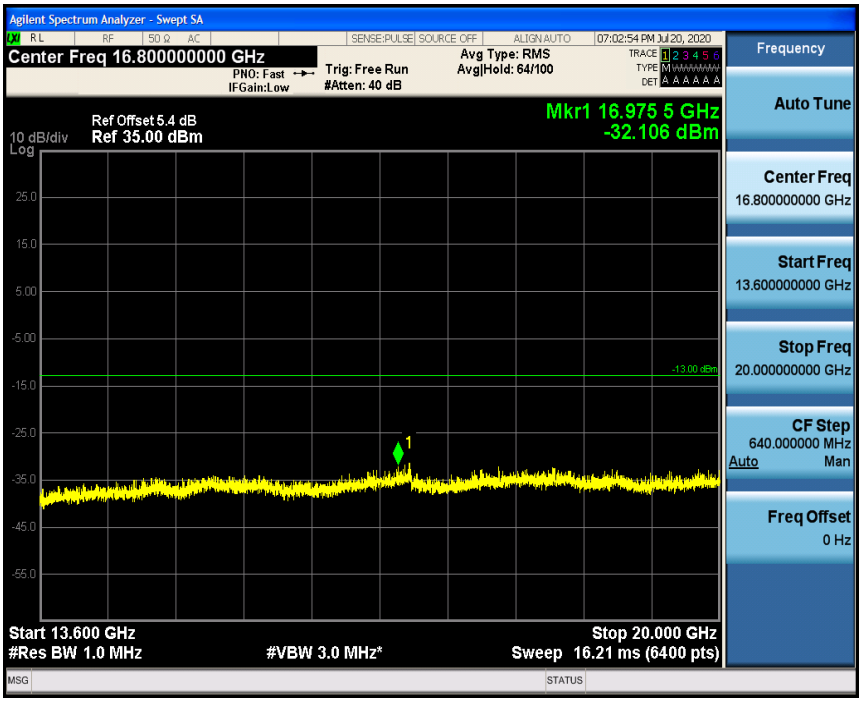

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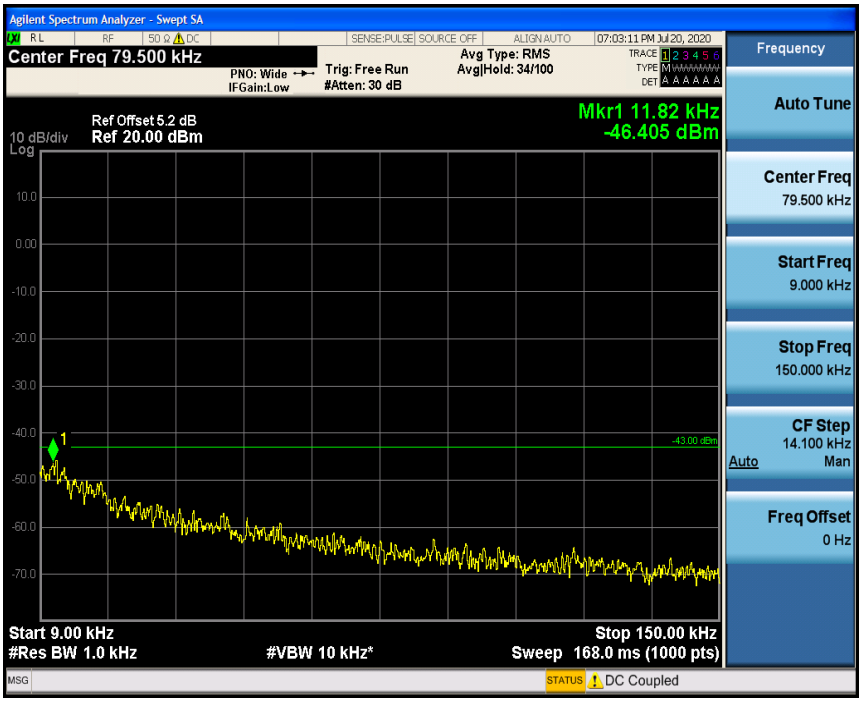

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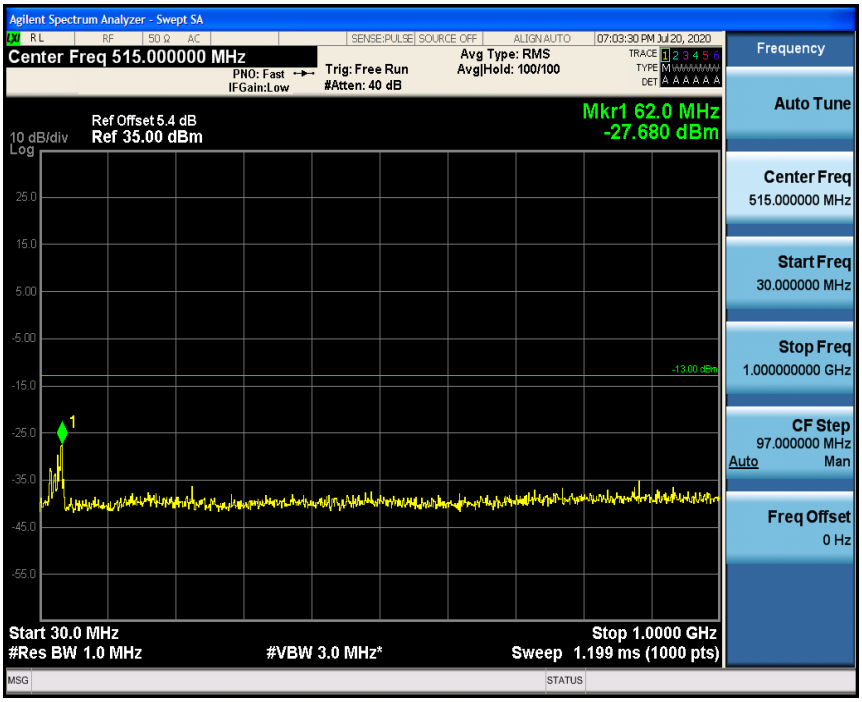

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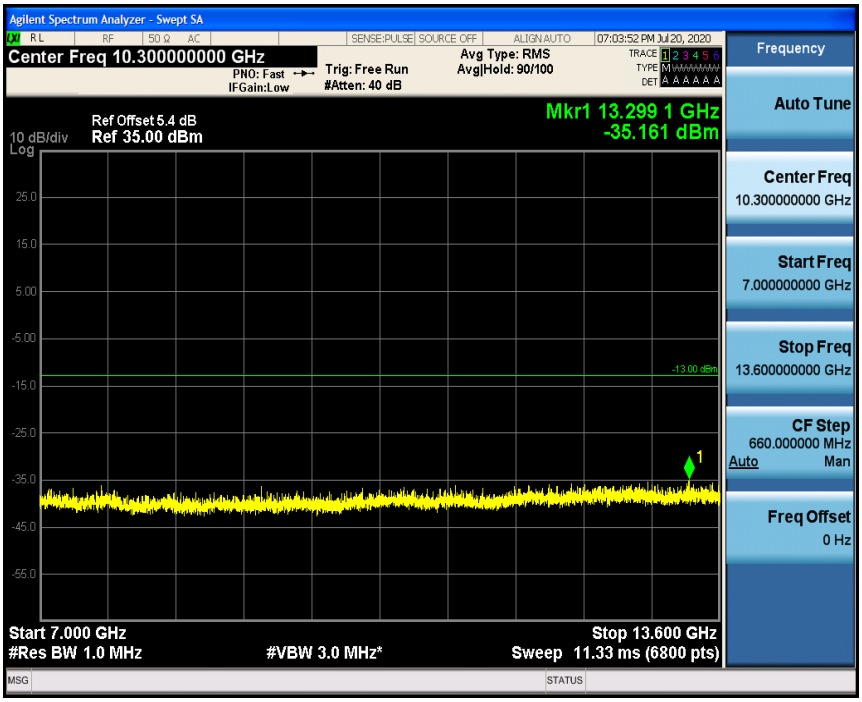

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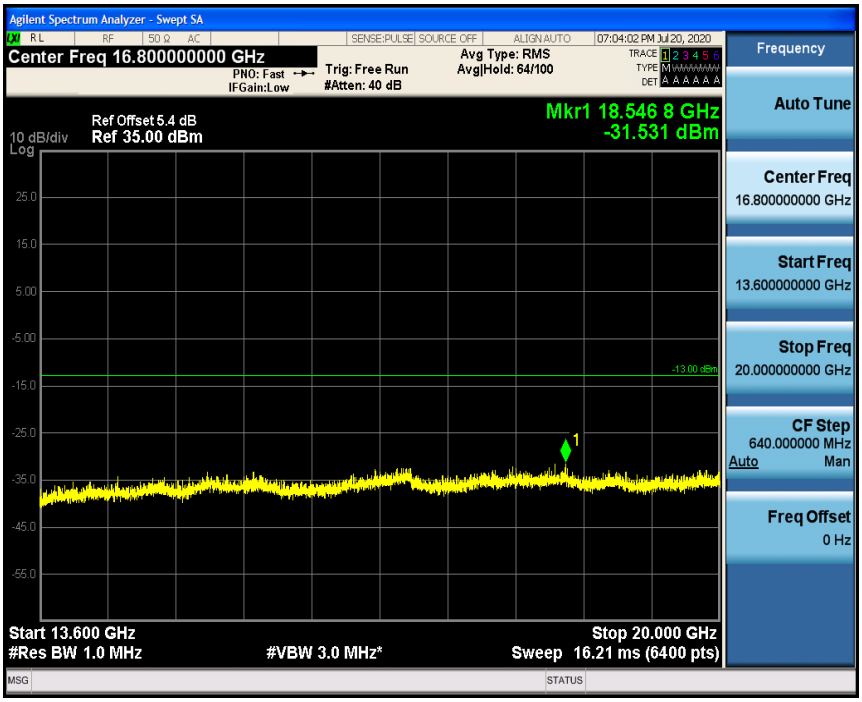

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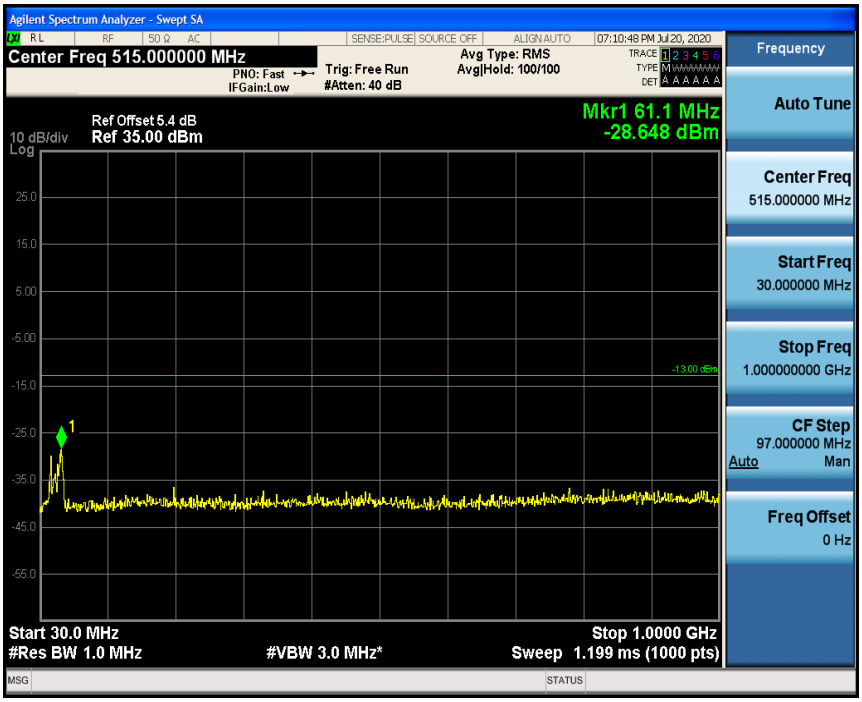

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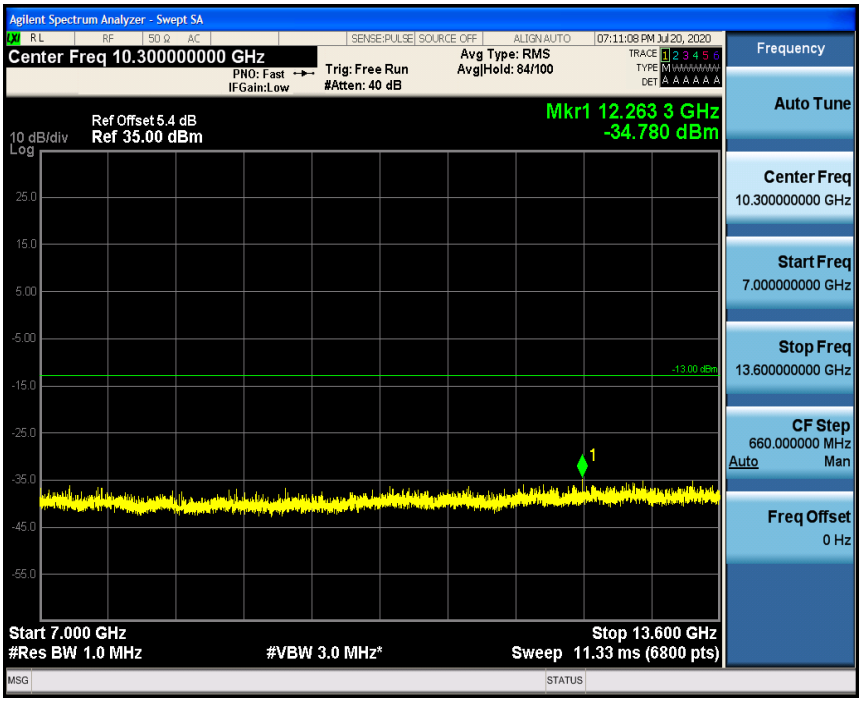

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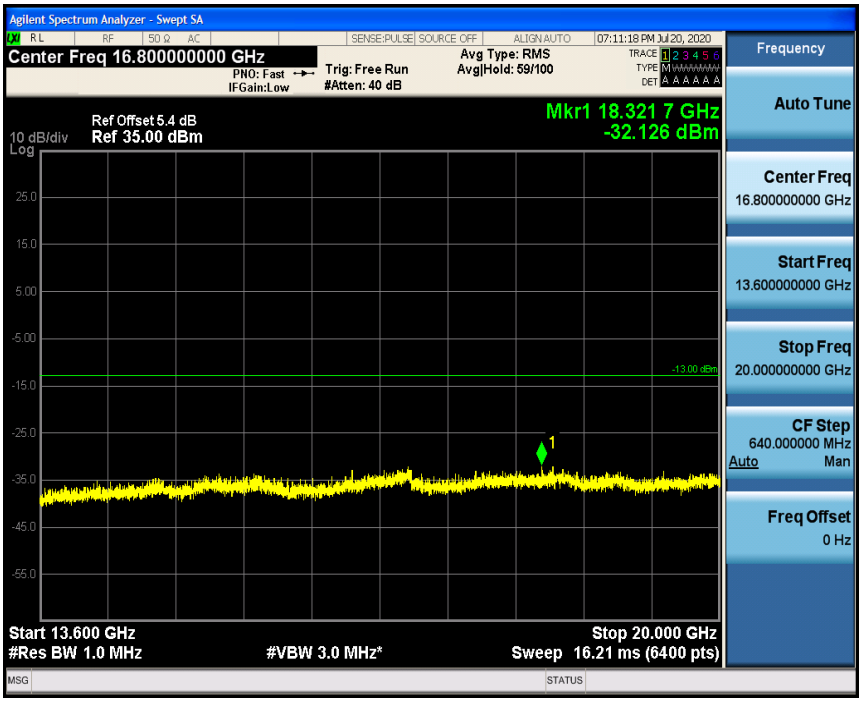

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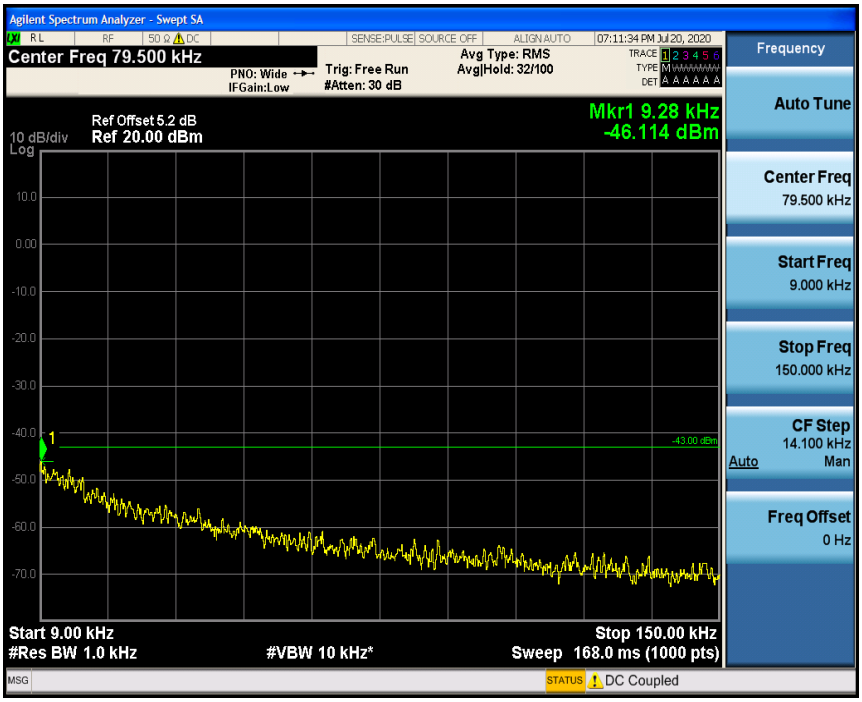

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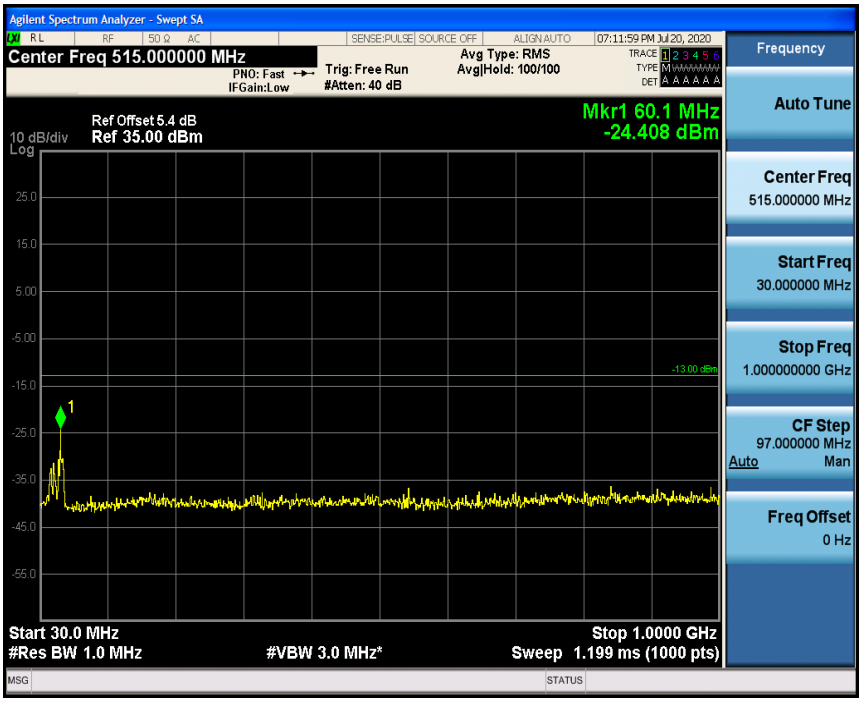

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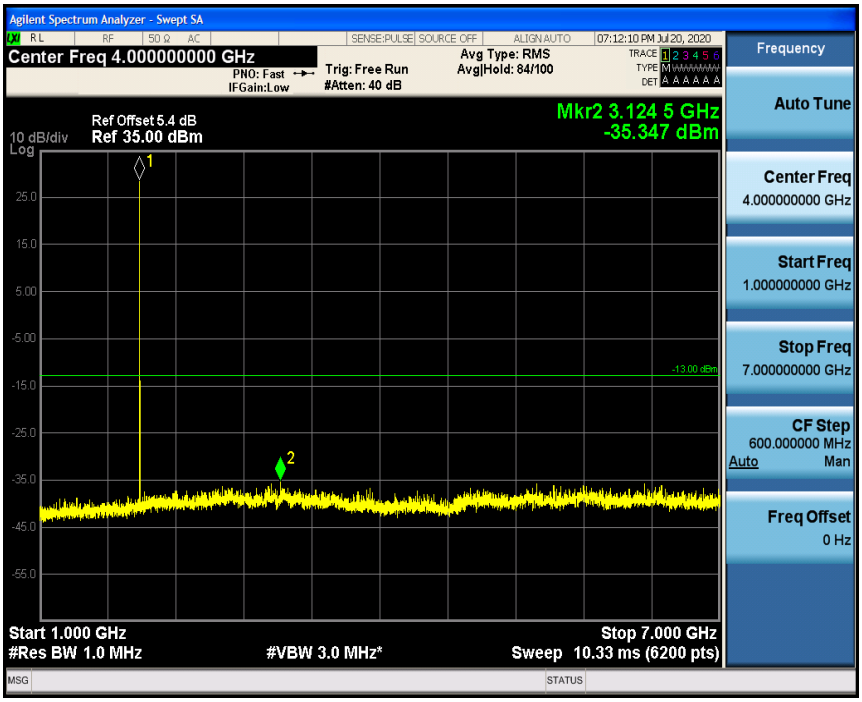

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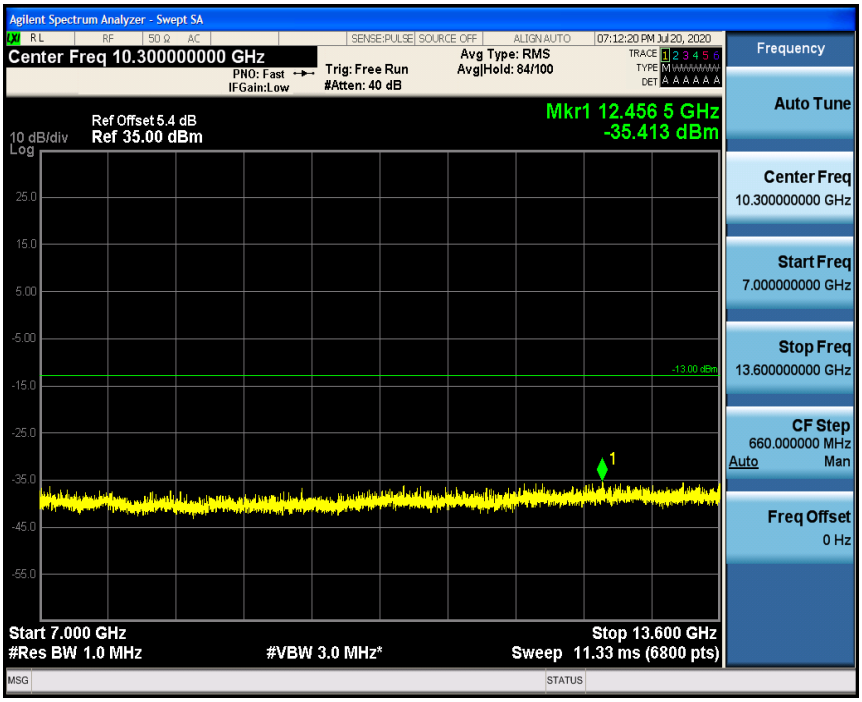

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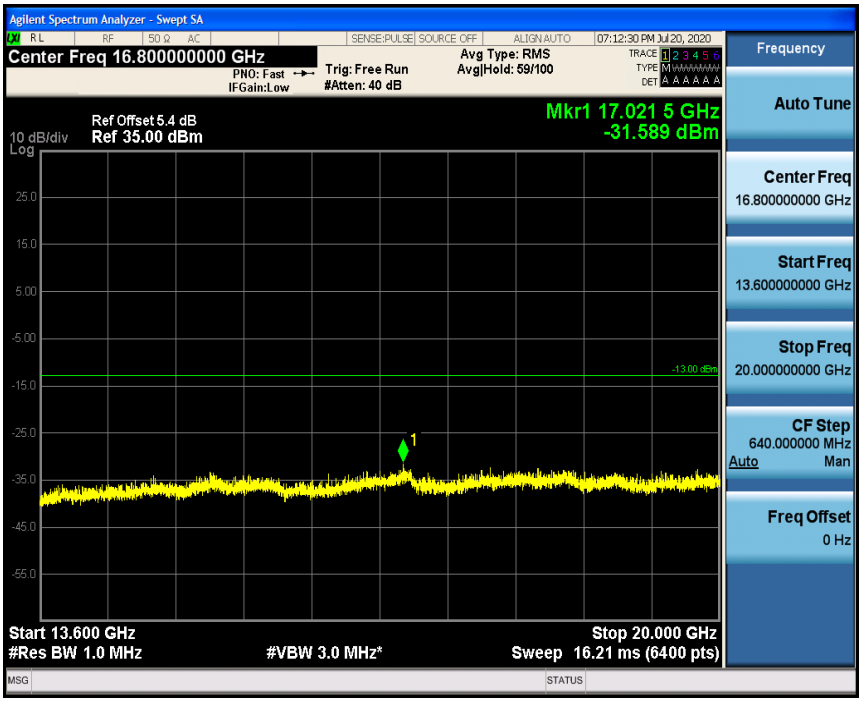

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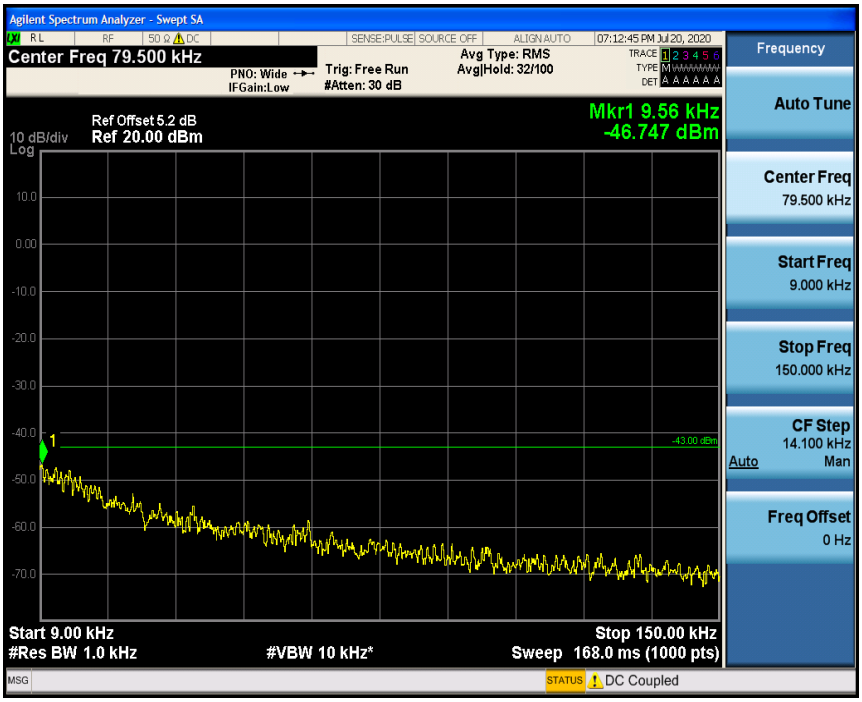

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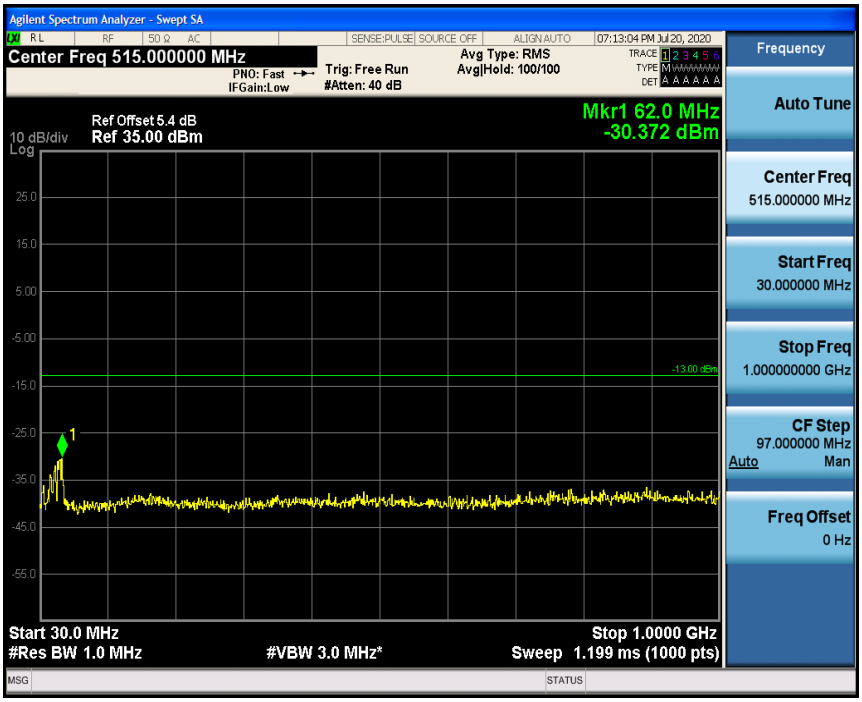

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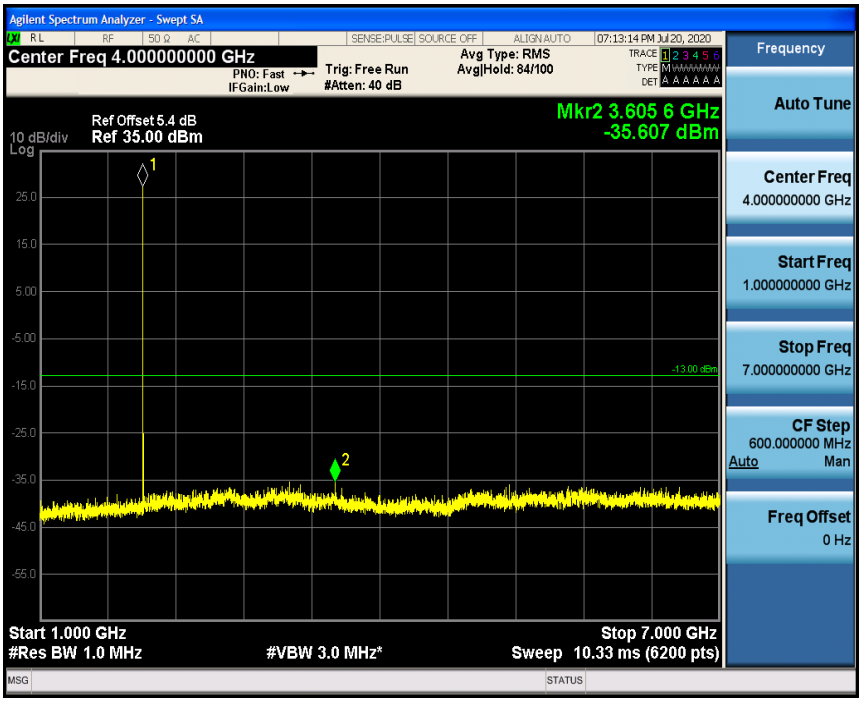

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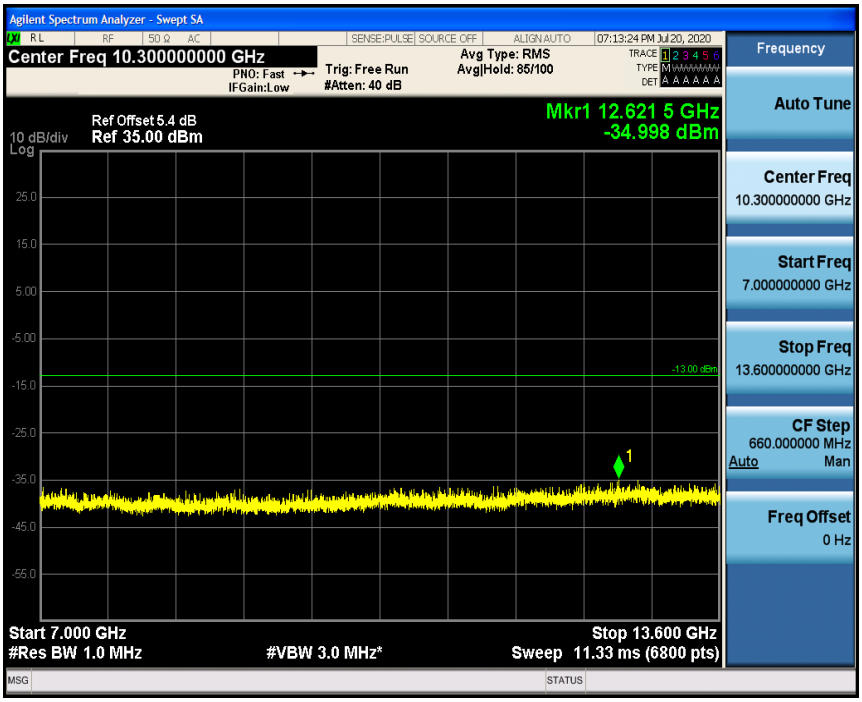

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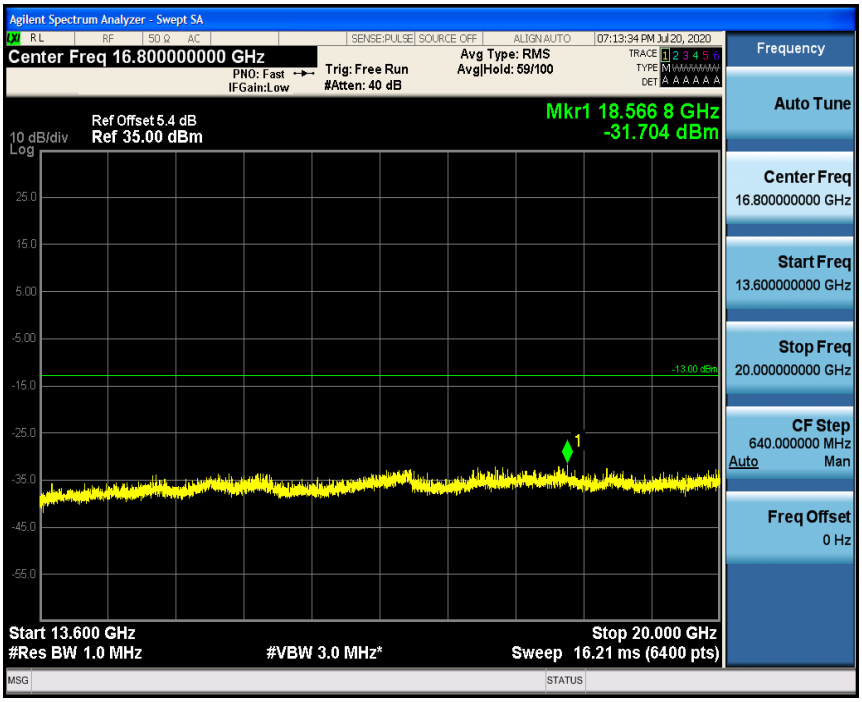

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7. Field Strength of Spurious Radiation

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
49.6920	-72.09	-13.00	59.09	271	100	Vertical
110.4655	-64.55	-13.00	51.55	259	68	Vertical
340.5610	-67.37	-13.00	54.37	241	292	Vertical
3700.0233	-50.55	-13.00	37.55	259	68	Vertical
5550.5850	-59.33	-13.00	46.33	263	259	Vertical
17993.4998	-39.98	-13.00	26.98	277	195	Vertical
38.1969	-64.41	-13.00	51.41	184	228	Horizontal
230.0240	-67.75	-13.00	54.75	175	355	Horizontal
520.3595	-65.87	-13.00	52.87	195	355	Horizontal
3700.5234	-54.85	-13.00	41.85	184	67	Horizontal
5550.5850	-58.25	-13.00	45.25	162	228	Horizontal
16400.9467	-43.24	-13.00	30.24	195	99	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.5950	-71.84	-13.00	58.84	241	36	Vertical
107.9434	-64.20	-13.00	51.20	258	164	Vertical
463.4662	-66.62	-13.00	53.62	263	324	Vertical
3760.0253	-52.20	-13.00	39.20	284	356	Vertical
5640.0880	-57.10	-13.00	44.10	257	227	Vertical
17997.4999	-40.07	-13.00	27.07	269	356	Vertical
44.0657	-64.16	-13.00	51.16	147	292	Horizontal
241.3251	-68.53	-13.00	55.53	165	356	Horizontal
544.7562	-64.59	-13.00	51.59	184	36	Horizontal
3760.0253	-51.03	-13.00	38.03	175	356	Horizontal
5640.0880	-58.81	-13.00	45.81	163	260	Horizontal
16391.9464	-43.66	-13.00	30.66	192	356	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization

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49.6920	-71.27	-13.00	58.27	184	100	Vertical
119.2930	-64.85	-13.00	51.85	175	324	Vertical
337.3114	-67.48	-13.00	54.48	163	68	Vertical
3819.5273	-55.04	-13.00	42.04	184	4	Vertical
5729.5910	-58.81	-13.00	45.81	165	260	Vertical
17995.9999	-40.02	-13.00	27.02	182	355	Vertical
45.7633	-64.09	-13.00	51.09	271	355	Horizontal
237.6389	-67.76	-13.00	54.76	259	99	Horizontal
565.9033	-64.26	-13.00	51.26	214	132	Horizontal
3819.5273	-56.25	-13.00	43.25	265	67	Horizontal
5729.5910	-58.55	-13.00	45.55	284	195	Horizontal
16394.4465	-43.60	-13.00	30.60	263	323	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
48.5764	-70.45	-13.00	57.45	211	35	Vertical
111.4841	-64.04	-13.00	51.04	184	35	Vertical
387.8994	-66.96	-13.00	53.96	175	67	Vertical
1648.1296	-46.54	-13.00	33.54	196	201	Vertical
2473.0946	-51.44	-13.00	38.44	224	149	Vertical
17997.9999	-39.71	-13.00	26.71	285	132	Vertical
43.4352	-63.38	-13.00	50.38	187	164	Horizontal
242.6346	-66.78	-13.00	53.78	165	68	Horizontal
1648.1296	-41.32	-13.00	28.32	187	206	Horizontal
2473.0946	-52.43	-13.00	39.43	195	101	Horizontal
3296.5099	-55.37	-13.00	42.37	174	196	Horizontal
4121.0374	-56.90	-13.00	43.90	192	196	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
49.4495	-71.84	-13.00	58.84	241	291	Vertical
117.1589	-63.89	-13.00	50.89	285	35	Vertical
326.3013	-68.09	-13.00	55.09	263	259	Vertical
1672.9346	-50.76	-13.00	37.76	284	294	Vertical
2509.9020	-56.16	-13.00	43.16	274	334	Vertical
17992.4998	-39.72	-13.00	26.72	259	131	Vertical
45.2783	-63.86	-13.00	50.86	187	324	Horizontal

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236.1353	-66.63	-13.00	53.63	165	164	Horizontal
1672.9346	-45.23	-13.00	32.23	184	345	Horizontal
2509.9020	-49.84	-13.00	36.84	192	299	Horizontal
3346.5116	-57.51	-13.00	44.51	188	196	Horizontal
4183.0394	-60.61	-13.00	47.61	196	196	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
54.2512	-71.57	-13.00	58.57	271	292	Vertical
113.6182	-64.69	-13.00	51.69	259	356	Vertical
433.4917	-66.63	-13.00	53.63	262	260	Vertical
1697.3395	-49.45	-13.00	36.45	284	194	Vertical
2546.3093	-53.92	-13.00	40.92	271	356	Vertical
17994.4998	-39.47	-13.00	26.47	226	164	Vertical
42.9501	-63.76	-13.00	50.76	174	68	Horizontal
114.6852	-75.39	-13.00	62.39	195	164	Horizontal
235.2623	-67.40	-13.00	54.40	184	132	Horizontal
1697.7395	-41.84	-13.00	28.84	172	207	Horizontal
2546.7093	-48.99	-13.00	35.99	163	124	Horizontal
3395.0132	-53.90	-13.00	40.90	187	228	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	14.11	0.017118	2.5	PASS
GSM850	128	VN	TN	9.04	0.010968	2.5	PASS
GSM850	128	VH	TN	7.26	0.008814	2.5	PASS
GSM850	190	VL	TN	11.95	0.014279	2.5	PASS
GSM850	190	VN	TN	14.85	0.017752	2.5	PASS
GSM850	190	VH	TN	13.11	0.015668	2.5	PASS
GSM850	251	VL	TN	12.79	0.015063	2.5	PASS
GSM850	251	VN	TN	12.72	0.014987	2.5	PASS
GSM850	251	VH	TN	15.34	0.018068	2.5	PASS
EGPRS850	128	VL	TN	21.92	0.026598	2.5	PASS
EGPRS850	128	VN	TN	19.37	0.023503	2.5	PASS
EGPRS850	128	VH	TN	23.60	0.028635	2.5	PASS
EGPRS850	190	VL	TN	20.44	0.024429	2.5	PASS
EGPRS850	190	VN	TN	21.73	0.025972	2.5	PASS
EGPRS850	190	VH	TN	22.73	0.027169	2.5	PASS
EGPRS850	251	VL	TN	20.21	0.023811	2.5	PASS
EGPRS850	251	VN	TN	18.69	0.022023	2.5	PASS
EGPRS850	251	VH	TN	18.50	0.021795	2.5	PASS
GSM1900	512	VL	TN	6.39	0.003455	2.5	PASS
GSM1900	512	VN	TN	8.39	0.004537	2.5	PASS
GSM1900	512	VH	TN	10.30	0.005567	2.5	PASS
GSM1900	661	VL	TN	14.01	0.007453	2.5	PASS
GSM1900	661	VN	TN	12.53	0.006663	2.5	PASS
GSM1900	661	VH	TN	17.89	0.009514	2.5	PASS
GSM1900	810	VL	TN	13.33	0.006982	2.5	PASS
GSM1900	810	VN	TN	11.11	0.005815	2.5	PASS
GSM1900	810	VH	TN	14.21	0.007438	2.5	PASS
EGPRS1900	512	VL	TN	9.75	0.005270	2.5	PASS
EGPRS1900	512	VN	TN	16.89	0.009126	2.5	PASS
EGPRS1900	512	VH	TN	18.24	0.009859	2.5	PASS
EGPRS1900	661	VL	TN	19.86	0.010562	2.5	PASS
EGPRS1900	661	VN	TN	20.73	0.011025	2.5	PASS
EGPRS1900	661	VH	TN	18.47	0.009823	2.5	PASS
EGPRS1900	810	VL	TN	15.79	0.008267	2.5	PASS
EGPRS1900	810	VN	TN	23.54	0.012324	2.5	PASS
EGPRS1900	810	VH	TN	19.47	0.010194	2.5	PASS

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8.2. Frequency Error Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	11.82	0.014337	2.5	PASS
GSM850	128	VN	-20	12.69	0.015395	2.5	PASS
GSM850	128	VN	-10	10.62	0.012888	2.5	PASS
GSM850	128	VN	0	10.07	0.012222	2.5	PASS
GSM850	128	VN	10	12.75	0.015473	2.5	PASS
GSM850	128	VN	20	8.68	0.010537	2.5	PASS
GSM850	128	VN	30	13.27	0.016100	2.5	PASS
GSM850	128	VN	40	11.91	0.014455	2.5	PASS
GSM850	128	VN	50	9.62	0.011673	2.5	PASS
GSM850	190	VN	-30	14.24	0.017019	2.5	PASS
GSM850	190	VN	-20	13.95	0.016672	2.5	PASS
GSM850	190	VN	-10	17.98	0.021496	2.5	PASS
GSM850	190	VN	0	18.69	0.022345	2.5	PASS
GSM850	190	VN	10	12.30	0.014703	2.5	PASS
GSM850	190	VN	20	16.01	0.019142	2.5	PASS
GSM850	190	VN	30	12.88	0.015398	2.5	PASS
GSM850	190	VN	40	14.14	0.016903	2.5	PASS
GSM850	190	VN	50	16.69	0.019952	2.5	PASS
GSM850	251	VN	-30	14.27	0.016812	2.5	PASS
GSM850	251	VN	-20	13.88	0.016356	2.5	PASS
GSM850	251	VN	-10	12.95	0.015253	2.5	PASS
GSM850	251	VN	0	14.82	0.017459	2.5	PASS
GSM850	251	VN	10	13.79	0.016242	2.5	PASS
GSM850	251	VN	20	14.40	0.016965	2.5	PASS
GSM850	251	VN	30	16.11	0.018980	2.5	PASS
GSM850	251	VN	40	14.75	0.017383	2.5	PASS
GSM850	251	VN	50	12.49	0.014720	2.5	PASS
EGPRS850	128	VN	-30	23.63	0.028674	2.5	PASS
EGPRS850	128	VN	-20	21.53	0.026128	2.5	PASS
EGPRS850	128	VN	-10	21.76	0.026402	2.5	PASS
EGPRS850	128	VN	0	23.37	0.028361	2.5	PASS
EGPRS850	128	VN	10	23.25	0.028204	2.5	PASS
EGPRS850	128	VN	20	23.02	0.027930	2.5	PASS
EGPRS850	128	VN	30	22.21	0.026951	2.5	PASS
EGPRS850	128	VN	40	19.86	0.024091	2.5	PASS
EGPRS850	128	VN	50	21.05	0.025540	2.5	PASS
EGPRS850	190	VN	-30	21.15	0.025278	2.5	PASS
EGPRS850	190	VN	-20	19.86	0.023734	2.5	PASS
EGPRS850	190	VN	-10	19.31	0.023078	2.5	PASS
EGPRS850	190	VN	0	20.24	0.024197	2.5	PASS
EGPRS850	190	VN	10	20.82	0.024892	2.5	PASS
EGPRS850	190	VN	20	18.79	0.022460	2.5	PASS

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EGPRS850	190	VN	30	19.44	0.023232	2.5	PASS
EGPRS850	190	VN	40	19.60	0.023425	2.5	PASS
EGPRS850	190	VN	50	18.82	0.022499	2.5	PASS
EGPRS850	251	VN	-30	16.27	0.019171	2.5	PASS
EGPRS850	251	VN	-20	20.82	0.024534	2.5	PASS
EGPRS850	251	VN	-10	18.89	0.022252	2.5	PASS
EGPRS850	251	VN	0	20.79	0.024496	2.5	PASS
EGPRS850	251	VN	10	19.95	0.023507	2.5	PASS
EGPRS850	251	VN	20	17.37	0.020464	2.5	PASS
EGPRS850	251	VN	30	19.47	0.022936	2.5	PASS
EGPRS850	251	VN	40	18.18	0.021415	2.5	PASS
EGPRS850	251	VN	50	19.21	0.022632	2.5	PASS
GSM1900	512	VN	-30	8.49	0.004589	2.5	PASS
GSM1900	512	VN	-20	11.56	0.006247	2.5	PASS
GSM1900	512	VN	-10	8.88	0.004799	2.5	PASS
GSM1900	512	VN	0	9.14	0.004938	2.5	PASS
GSM1900	512	VN	10	14.27	0.007713	2.5	PASS
GSM1900	512	VN	20	11.27	0.006090	2.5	PASS
GSM1900	512	VN	30	12.88	0.006963	2.5	PASS
GSM1900	512	VN	40	7.62	0.004118	2.5	PASS
GSM1900	512	VN	50	8.23	0.004450	2.5	PASS
GSM1900	661	VN	-30	12.69	0.006749	2.5	PASS
GSM1900	661	VN	-20	19.27	0.010252	2.5	PASS
GSM1900	661	VN	-10	11.40	0.006062	2.5	PASS
GSM1900	661	VN	0	10.33	0.005495	2.5	PASS
GSM1900	661	VN	10	18.40	0.009789	2.5	PASS
GSM1900	661	VN	20	13.95	0.007419	2.5	PASS
GSM1900	661	VN	30	17.37	0.009239	2.5	PASS
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GSM1900	661	VN	50	14.01	0.007453	2.5	PASS
GSM1900	810	VN	-30	9.81	0.005139	2.5	PASS
GSM1900	810	VN	-20	8.04	0.004209	2.5	PASS
GSM1900	810	VN	-10	12.91	0.006762	2.5	PASS
GSM1900	810	VN	0	7.36	0.003854	2.5	PASS
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GSM1900	810	VN	20	15.40	0.008064	2.5	PASS
GSM1900	810	VN	30	14.27	0.007472	2.5	PASS
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EGPRS1900	512	VN	-30	18.21	0.009842	2.5	PASS
EGPRS1900	512	VN	-20	17.95	0.009702	2.5	PASS
EGPRS1900	512	VN	-10	15.24	0.008236	2.5	PASS
EGPRS1900	512	VN	0	14.75	0.007975	2.5	PASS
EGPRS1900	512	VN	10	17.95	0.009702	2.5	PASS
EGPRS1900	512	VN	20	15.98	0.008638	2.5	PASS
EGPRS1900	512	VN	30	19.24	0.010400	2.5	PASS
EGPRS1900	512	VN	40	22.41	0.012110	2.5	PASS

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EGPRS1900	512	VN	50	17.82	0.009632	2.5	PASS
EGPRS1900	661	VN	-30	23.44	0.012468	2.5	PASS
EGPRS1900	661	VN	-20	23.31	0.012399	2.5	PASS
EGPRS1900	661	VN	-10	20.02	0.010647	2.5	PASS
EGPRS1900	661	VN	0	22.57	0.012004	2.5	PASS
EGPRS1900	661	VN	10	20.02	0.010647	2.5	PASS
EGPRS1900	661	VN	20	22.57	0.012004	2.5	PASS
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EGPRS1900	661	VN	40	15.92	0.008466	2.5	PASS
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EGPRS1900	810	VN	-30	17.01	0.008909	2.5	PASS
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EGPRS1900	810	VN	-10	16.34	0.008554	2.5	PASS
EGPRS1900	810	VN	0	17.89	0.009366	2.5	PASS
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EGPRS1900	810	VN	30	17.21	0.009011	2.5	PASS
EGPRS1900	810	VN	40	15.37	0.008047	2.5	PASS
EGPRS1900	810	VN	50	18.47	0.009670	2.5	PASS

The End

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