1 of 50 Page:

Appendix B

GSM 850 & 1900



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Page: 2 of 50

CONTENT

		Page
1.	EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA	4
	1.1. Test Result	4
2.	PEAK-TO-AVERAGE RATIO	6
	2.1. Test Result	6
	2.2. Part II - Test Plots	7
3.	Modulation Characteristics	13
	3.1. For GSM	13
	3.1.1. Test Band = GSM 850	13
	3.1.1.1. Test Mode = GSM/TM1	13
	3.1.1.1.1. Test Channel = MCH	13
	3.1.1.2. Test Mode = GSM/TM2	14
	3.1.1.2.1. Test Channel = MCH	14
	3.1.2. Test Band = GSM 1900	15
	3.1.2.1. Test Mode = GSM/TM1	15
	3.1.2.1.1. Test Channel = MCH	15
	3.1.2.2. Test Mode = GSM/TM2	16
	3.1.2.2.1. Test Channel = MCH	16
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	17
	4.1. Test Result	17
	4.2. Test Plots	17
5.	BAND EDGE COMPLIANCE	24
	5.1. Test Plots	24
6.	Spurious Emission at Antenna Terminal	29
	6.1. Test Plots	29
7.	FIELD STRENGTH OF SPURIOUS RADIATION	42
	7.1. Test Band = GSM 1900	42
	7.1.1. Test Channel = LCH	42
	7.1.2. Test Channel = MCH	42
	7.1.3. Test Channel = HCH	43
	7.2. Test Band = GSM 850	44
	7.2.1. Test Channel = LCH	44
	7.2.2. Test Channel = MCH	44



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Report No.: ZR/2020/9004101-01

Page: 3 of 50

	7.2.3.	Test Channel = HCH	.45
8.	FRE	QUENCY STABILITY	.46
	8.1.	Frequency Error Vs Voltage	.46
	8.2.	Frequency Error Vs Temperature	.47



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Page: 4 of 50

1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

2. Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128		32.64	23.49	38.45	PASS
GSM850	190		32.60	23.45	38.45	PASS
GSM850	251		32.31	23.16	38.45	PASS
EGPRS850	128	1	26.45	17.3	38.45	PASS
EGPRS850	128	2	24.10	14.95	38.45	PASS
EGPRS850	128	3	23.48	14.33	38.45	PASS
EGPRS850	128	4	22.31	13.16	38.45	PASS
EGPRS850	190	1	26.46	17.31	38.45	PASS
EGPRS850	190	2	24.06	14.91	38.45	PASS
EGPRS850	190	3	23.40	14.25	38.45	PASS
EGPRS850	190	4	22.24	13.09	38.45	PASS
EGPRS850	251	1	26.38	17.23	38.45	PASS
EGPRS850	251	2	23.94	14.79	38.45	PASS
EGPRS850	251	3	23.29	14.14	38.45	PASS
EGPRS850	251	4	22.10	12.95	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512		29.39	23.39	33.00	PASS
GSM1900	661		29.92	23.92	33.00	PASS
GSM1900	810		30.02	24.02	33.00	PASS
EGPRS1900	512	1	24.73	18.73	33.00	PASS
EGPRS1900	512	2	22.61	16.61	33.00	PASS
EGPRS1900	512	3	21.47	15.47	33.00	PASS
EGPRS1900	512	4	20.36	14.36	33.00	PASS
EGPRS1900	661	1	25.32	19.32	33.00	PASS
EGPRS1900	661	2	23.15	17.15	33.00	PASS
EGPRS1900	661	3	22.02	16.02	33.00	PASS
EGPRS1900	661	4	20.91	14.91	33.00	PASS
EGPRS1900	810	1	25.59	19.59	33.00	PASS
EGPRS1900	810	2	23.41	17.41	33.00	PASS
EGPRS1900	810	3	22.30	16.3	33.00	PASS
EGPRS1900	810	4	21.14	15.14	33.00	PASS



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Page: 5 of 50

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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Page: 6 of 50

2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.99	13	PASS
GSM850	190	8.93	13	PASS
GSM850	251	8.99	13	PASS
EGPRS850	128	11.88	13	PASS
EGPRS850	190	12	13	PASS
EGPRS850	251	11.74	13	PASS
GSM1900	512	8.93	13	PASS
GSM1900	661	8.96	13	PASS
GSM1900	810	8.96	13	PASS
EGPRS1900	512	11.94	13	PASS
EGPRS1900	661	12.72	13	PASS
EGPRS1900	810	12.03	13	PASS

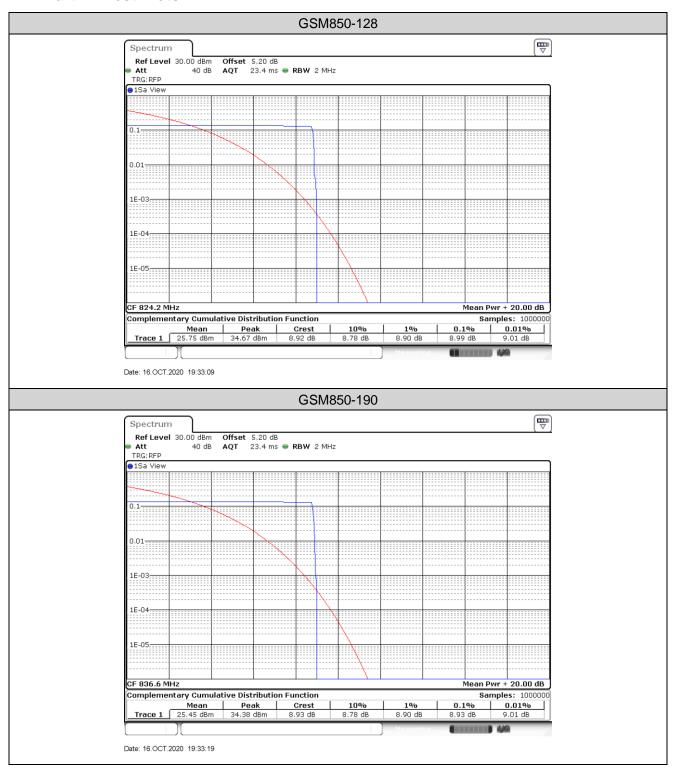


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2.2. Part II - Test Plots



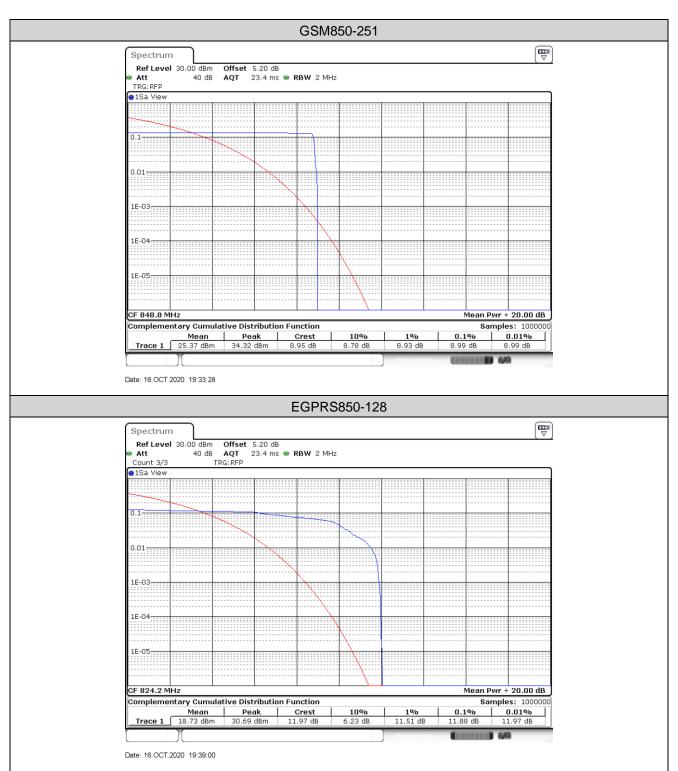


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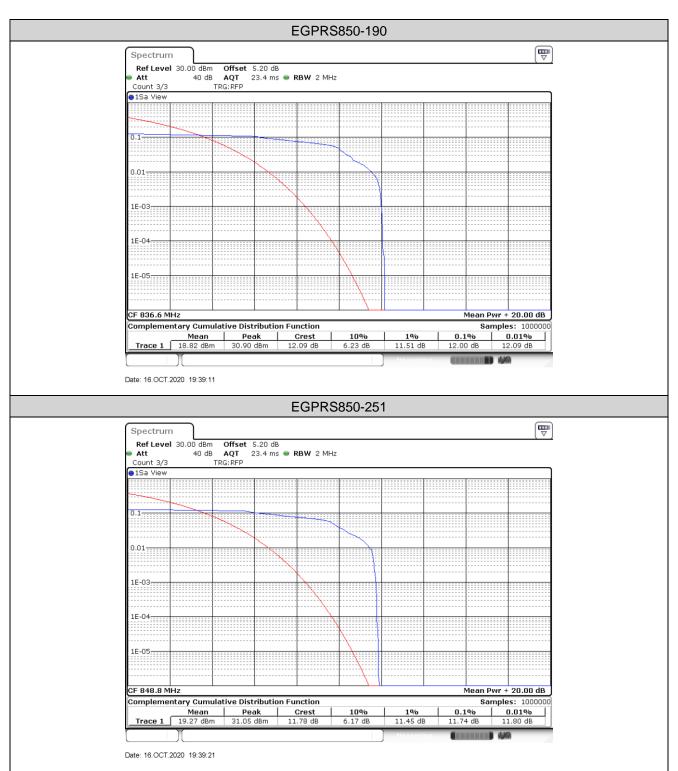
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Page: 9 of 50





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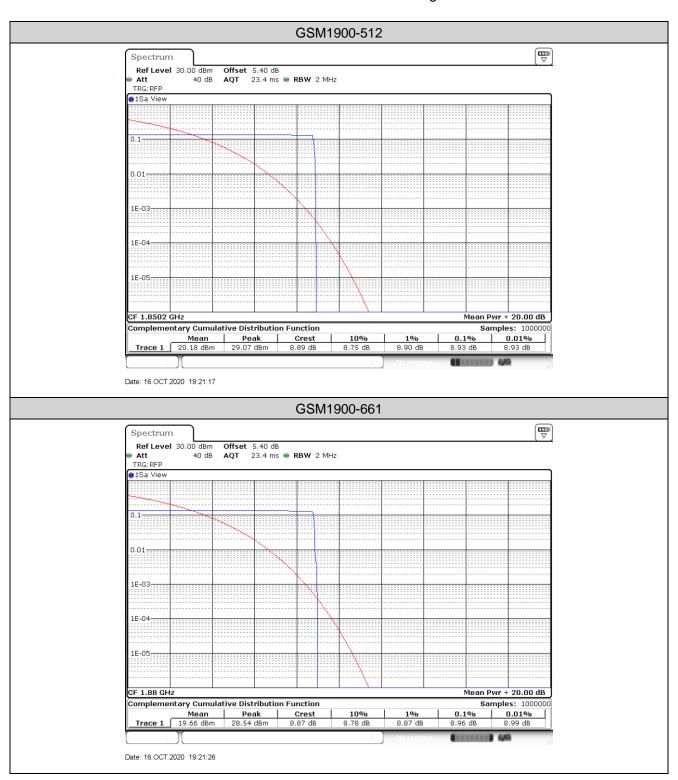
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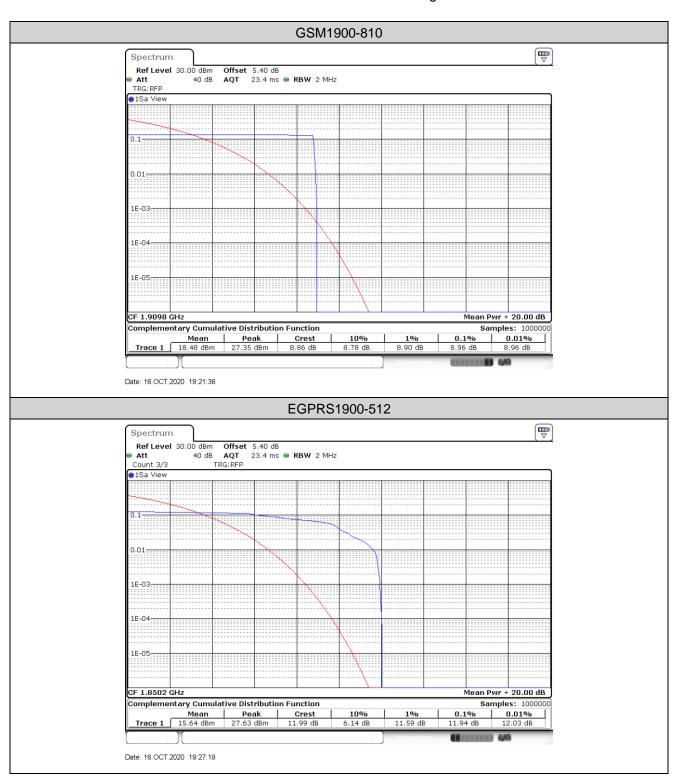
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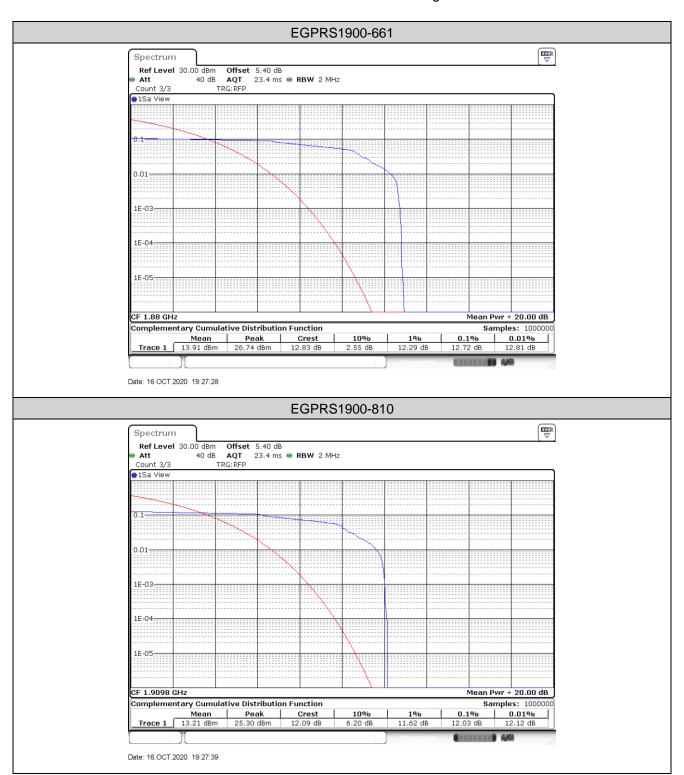
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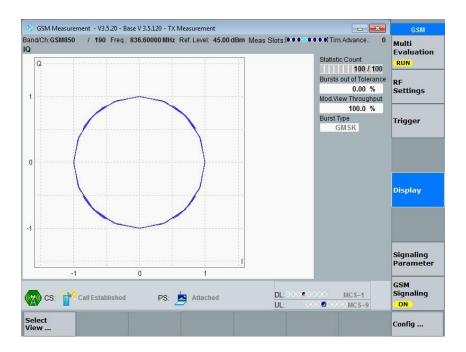
3. Modulation Characteristics

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

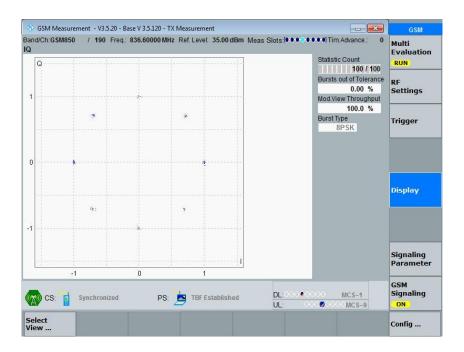




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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH





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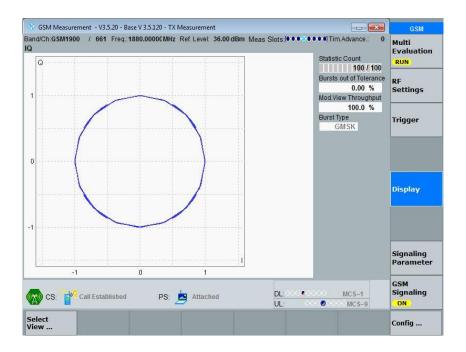
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Page: 15 of 50

3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH





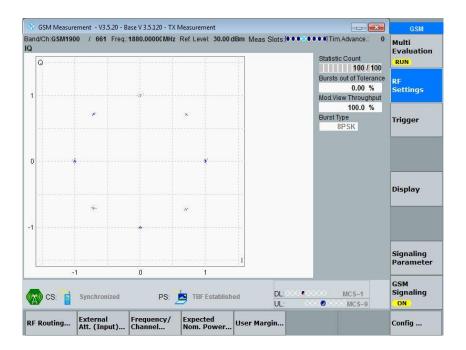
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16 of 50 Page:

3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH





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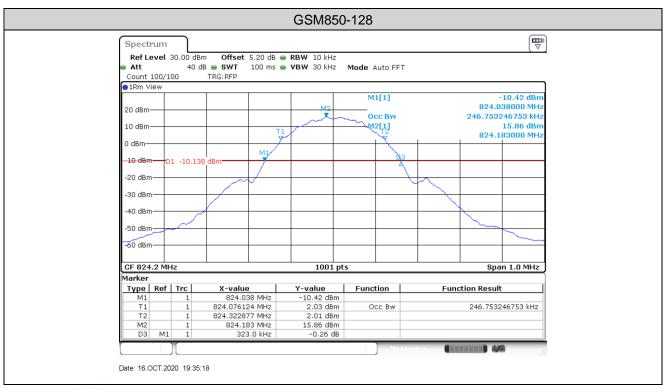
Page: 17 of 50

4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

D I	Ohamad	Occupied	26dB Bandwidth	Limit	Mar Park	
Band	Channel	Bandwidth (MHz)	(MHz)	(MHz)	Verdict	
GSM850	128	128 0.247 0.323			PASS	
GSM850	190	0.248	0.323		PASS	
GSM850	251	0.247	0.323		PASS	
EGPRS850	128	0.246	0.320		PASS	
EGPRS850	190	0.245	0.318		PASS	
EGPRS850	GPRS850 251		0.317		PASS	
GSM1900	900 512 0.2		0.323		PASS	
GSM1900	661	0.247	0.322		PASS	
GSM1900	810	0.249	0.323		PASS	
EGPRS1900	512	0.243	0.315		PASS	
EGPRS1900	GPRS1900 661 0.244		0.317		PASS	
EGPRS1900	810	0.245	0.318		PASS	

4.2. Test Plots





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Report No.: ZR/2020/9004101-01

Page: 18 of 50





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Page: 19 of 50





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Page: 20 of 50





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Report No.: ZR/2020/9004101-01

Page: 21 of 50





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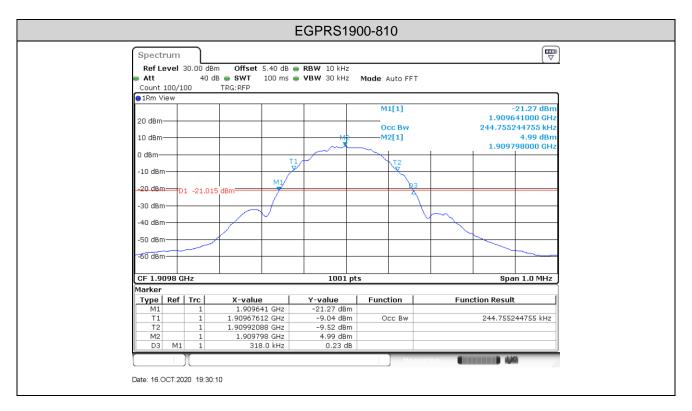
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Report No.: ZR/2020/9004101-01

Page: 23 of 50





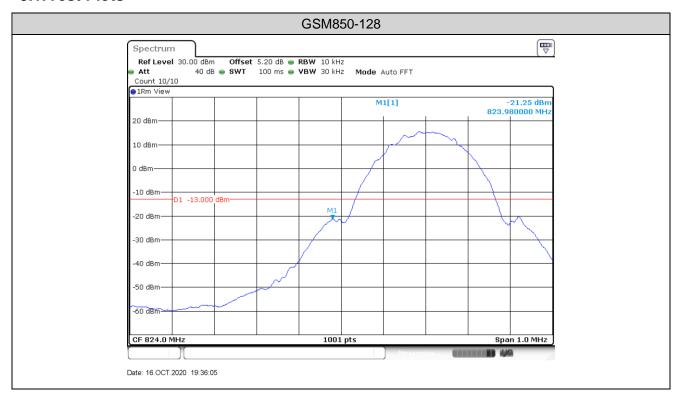
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Page: 24 of 50

5. Band Edge Compliance

5.1. Test Plots



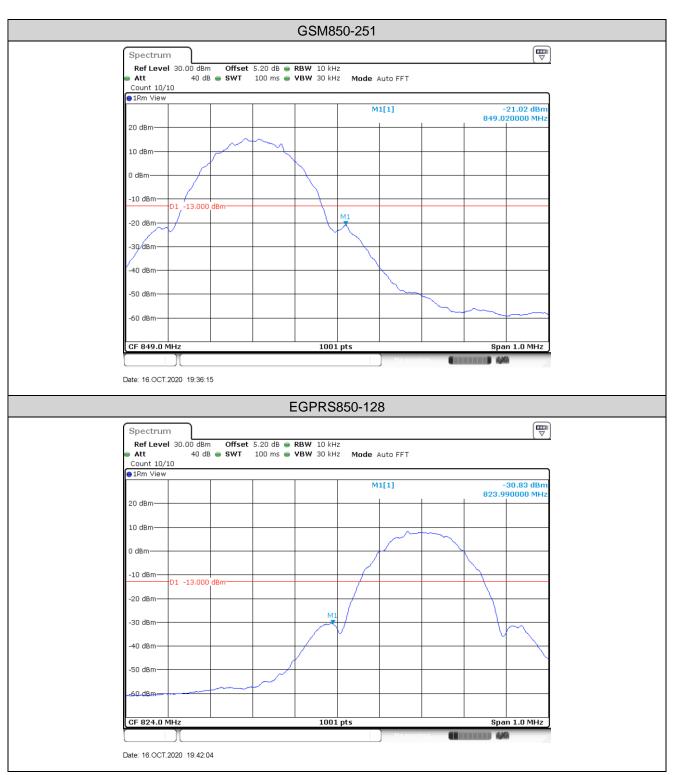


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Page: 25 of 50





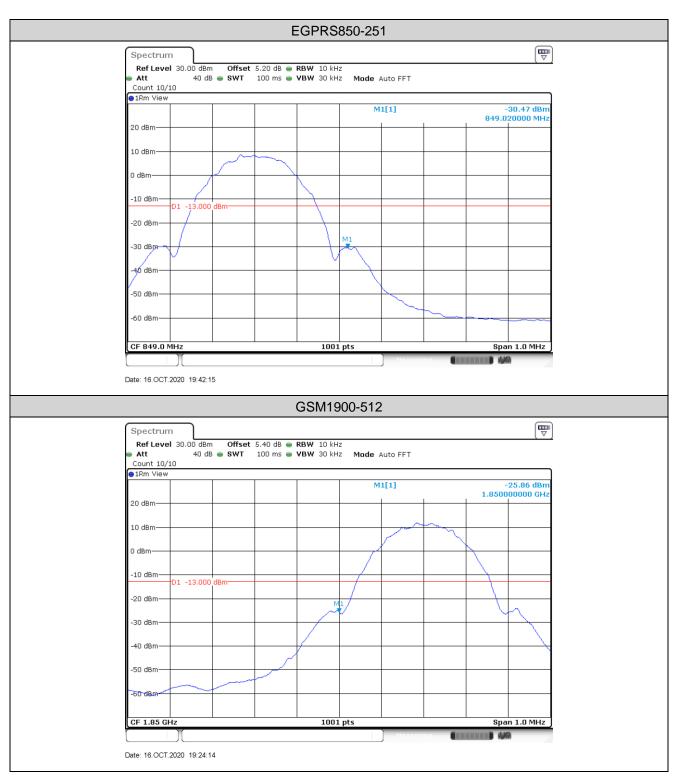
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Page: 26 of 50





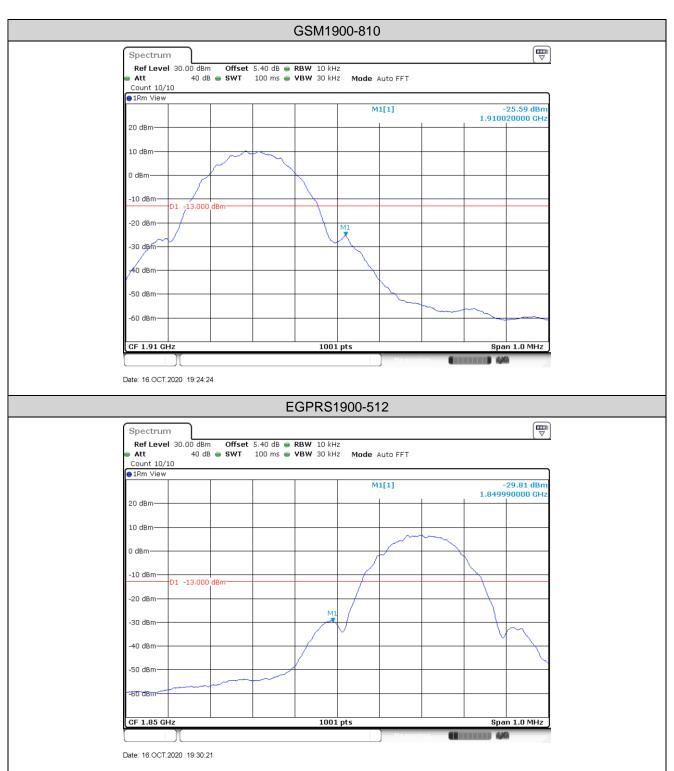
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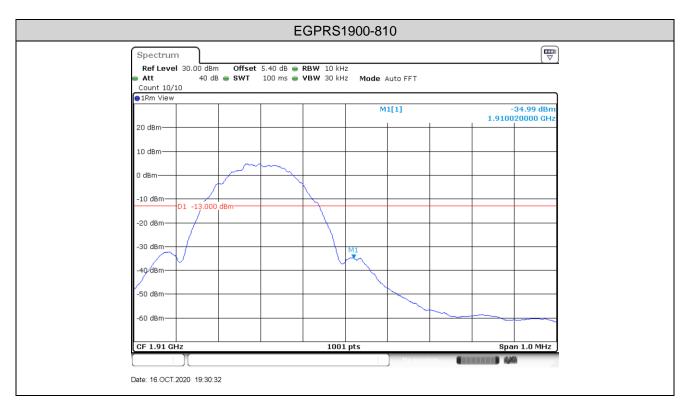
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Page: 28 of 50





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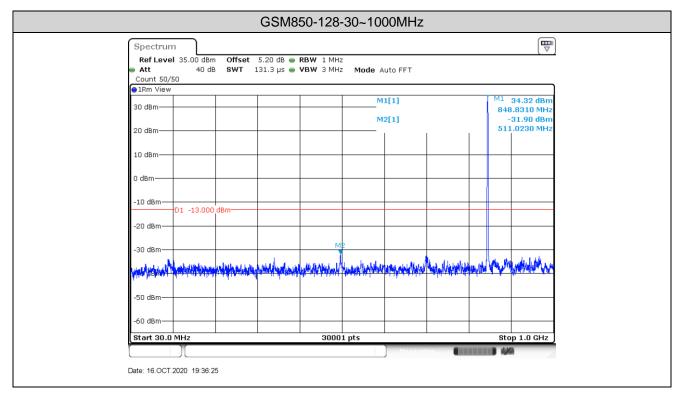
Page: 29 of 50

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

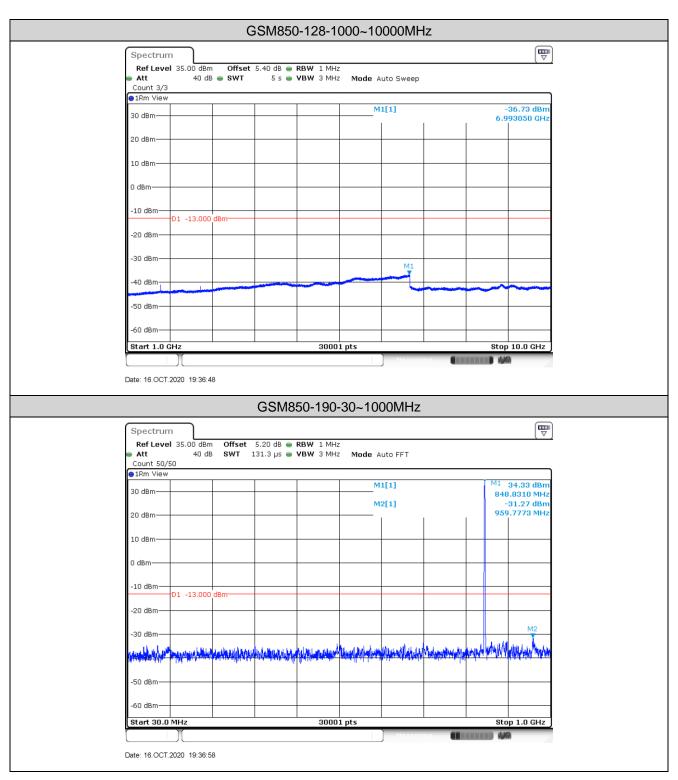






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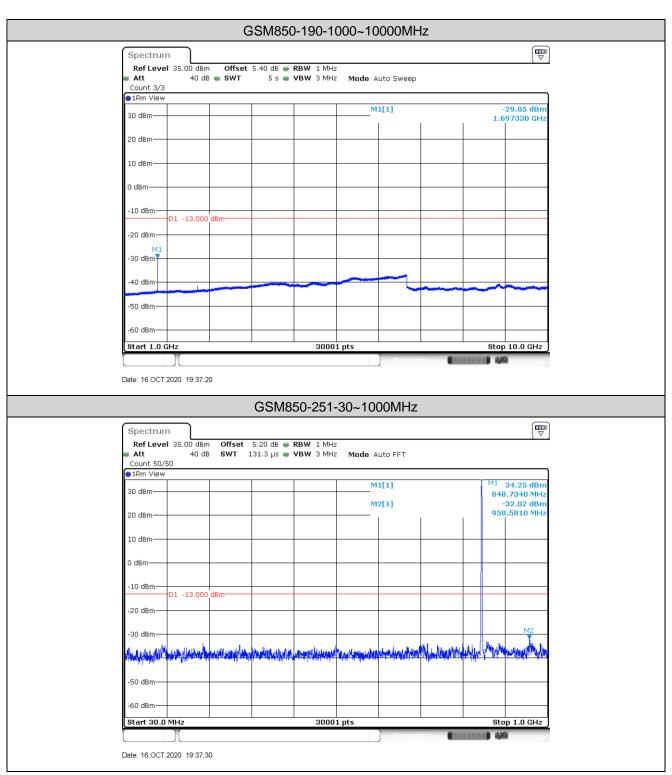
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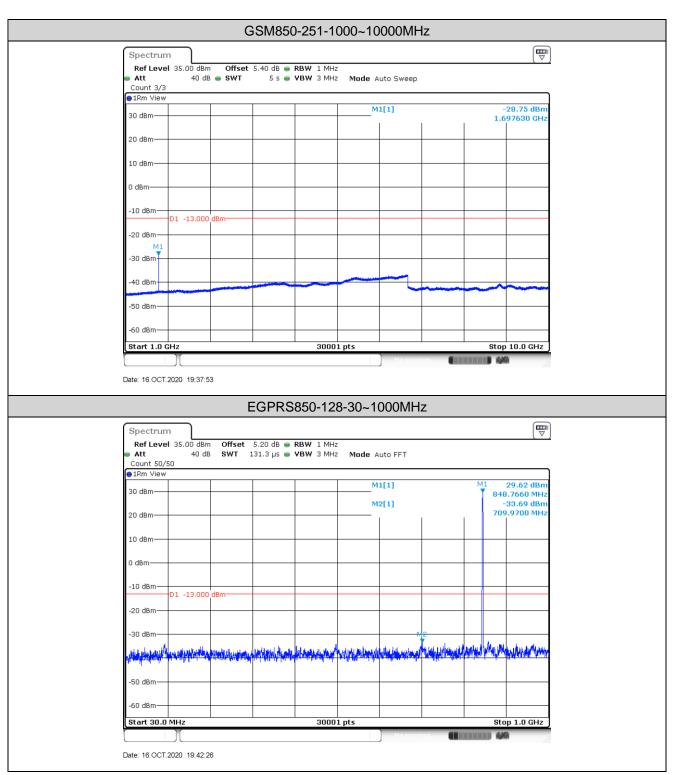
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Page: 32 of 50





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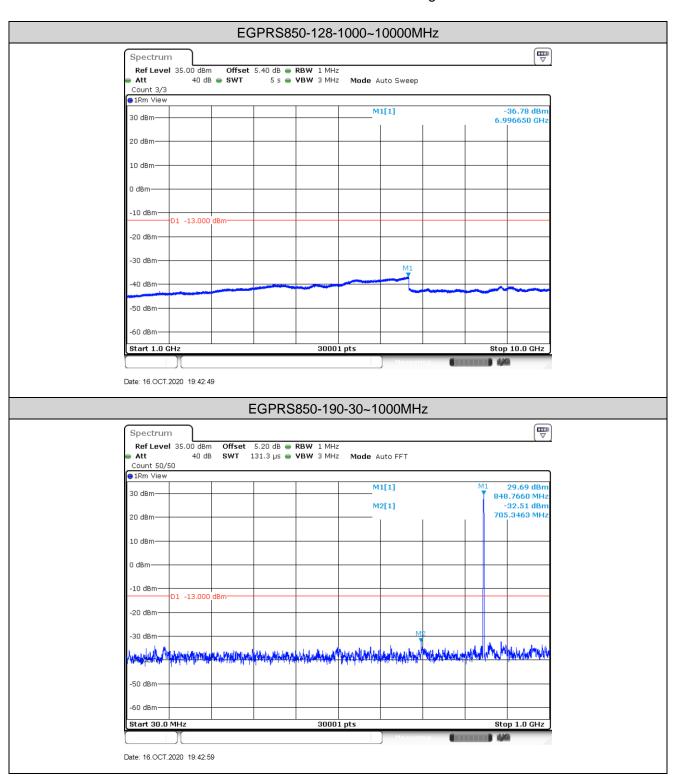
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Report No.: ZR/2020/9004101-01

Page: 33 of 50





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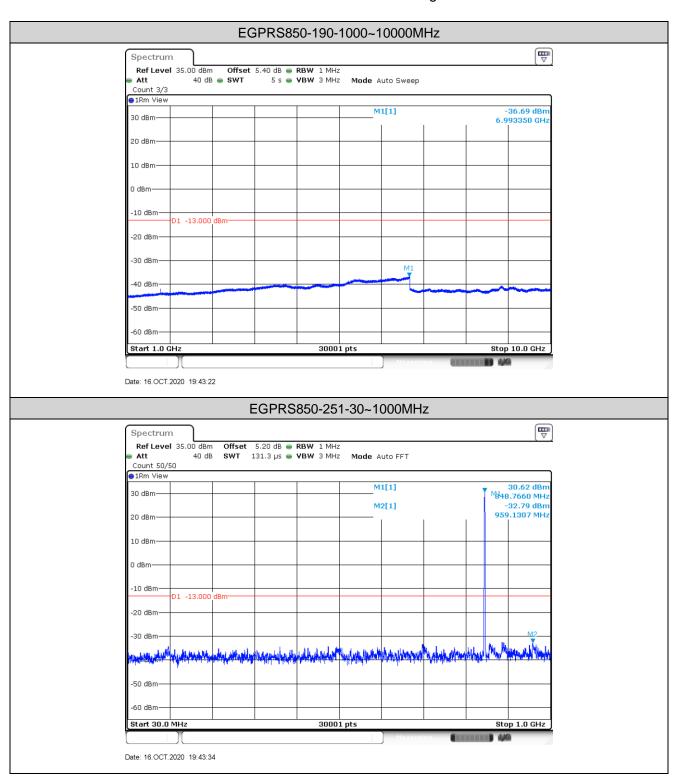
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Report No.: ZR/2020/9004101-01

Page: 34 of 50





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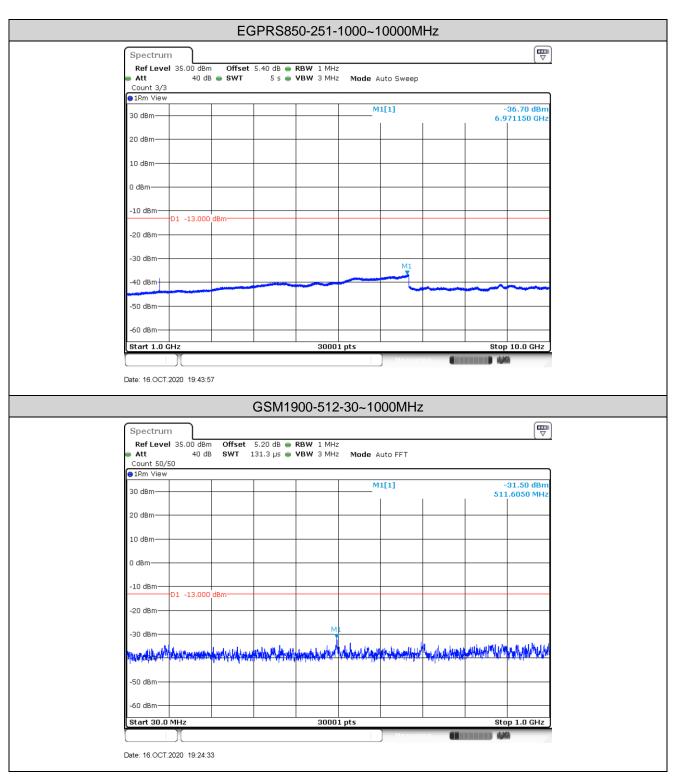
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Report No.: ZR/2020/9004101-01

Page: 35 of 50





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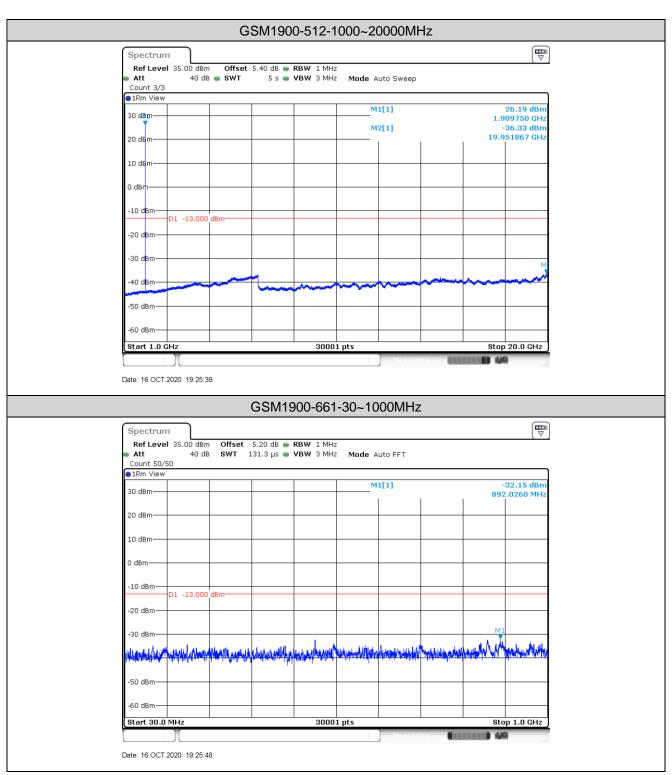
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Report No.: ZR/2020/9004101-01

Page: 36 of 50





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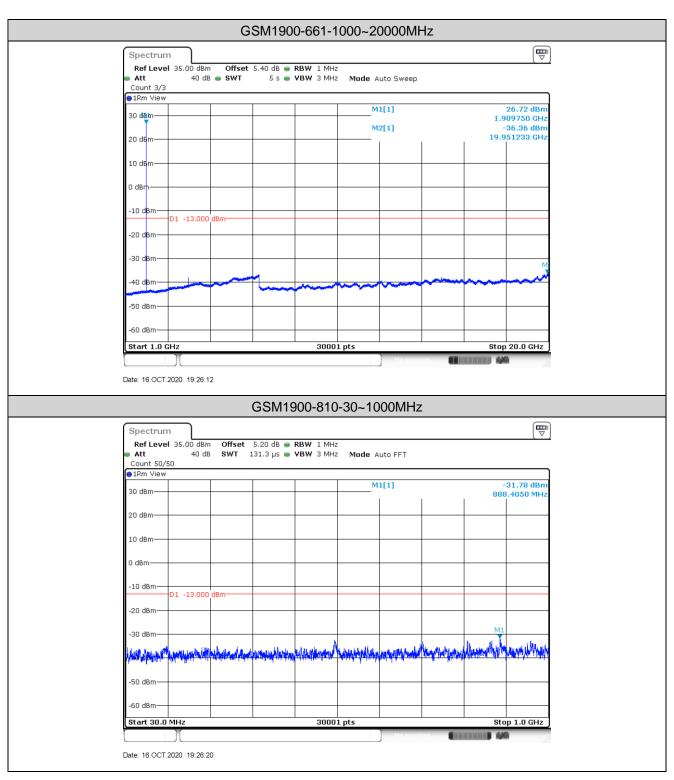
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Report No.: ZR/2020/9004101-01

Page: 37 of 50





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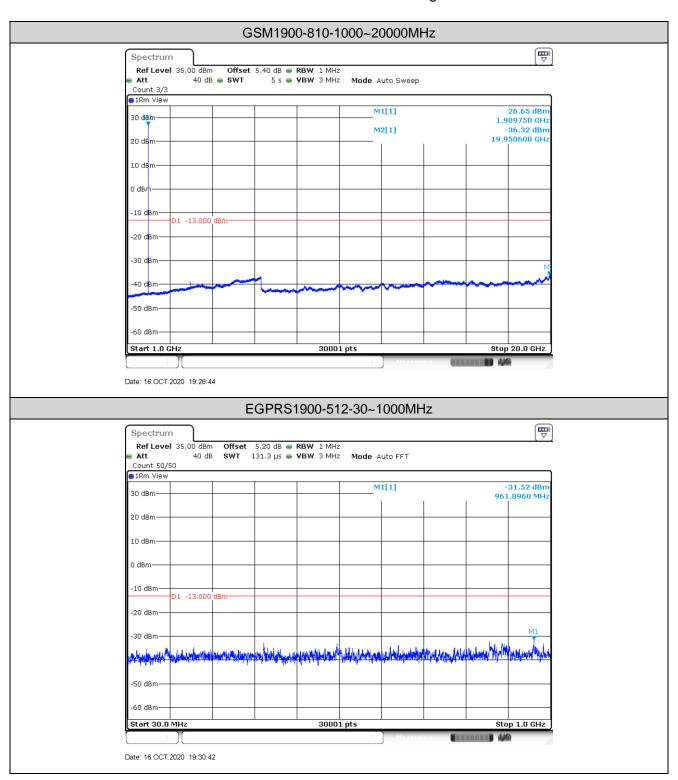
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Report No.: ZR/2020/9004101-01

Page: 38 of 50





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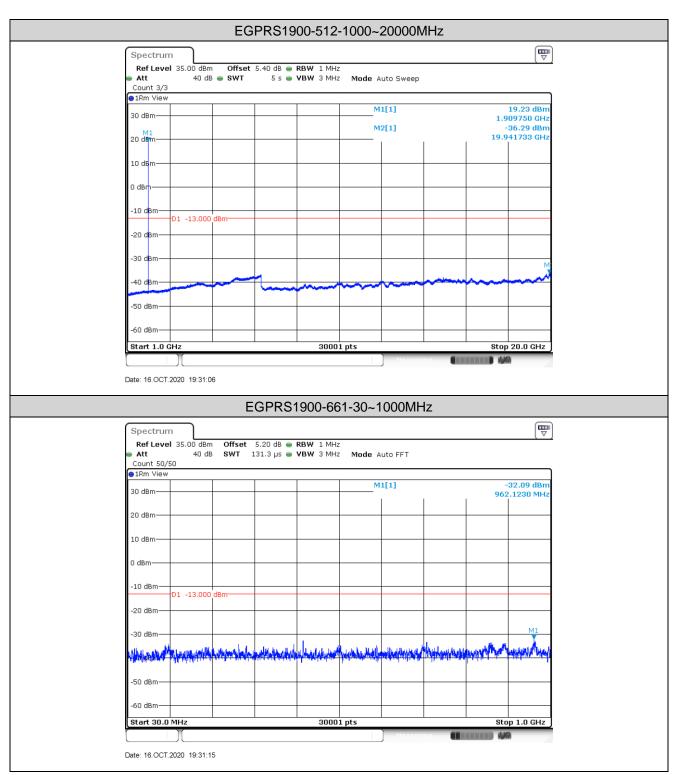
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Page: 39 of 50





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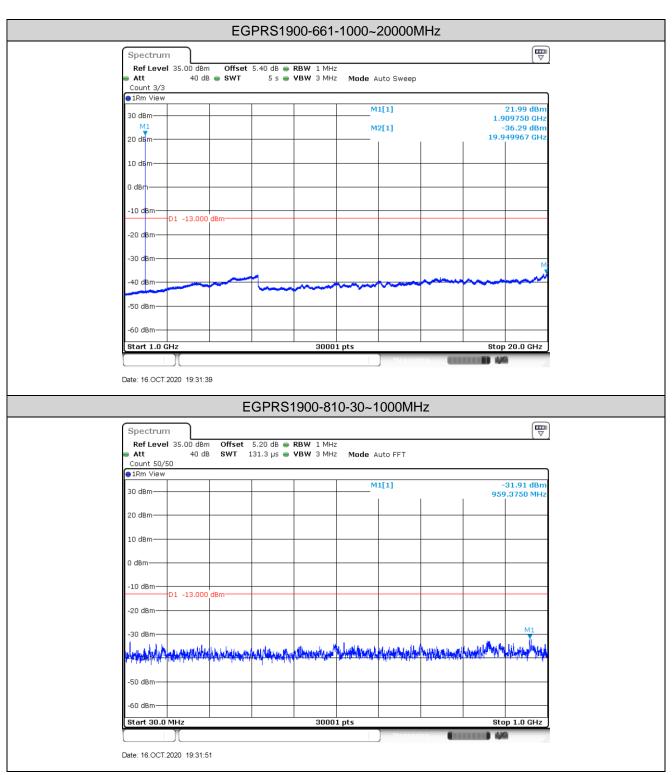
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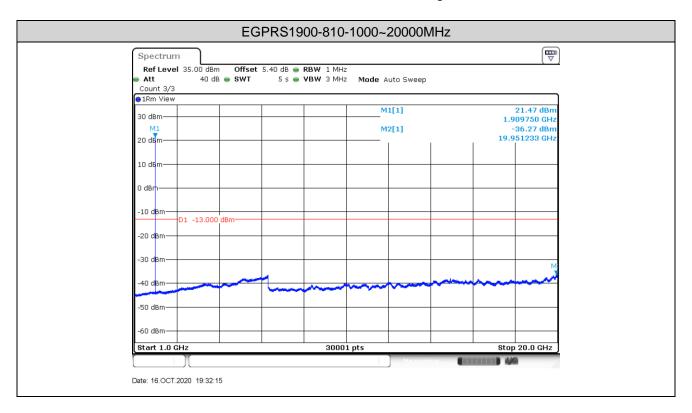
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Report No.: ZR/2020/9004101-01

Page: 41 of 50





Report No.: ZR/2020/9004101-01

Page: 42 of 50

7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

7.1.1. Test Chamier – Lori										
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization				
30.8245	-66.69	-13.00	53.69	262	227	Vertical				
116.5768	-64.95	-13.00	51.95	284	259	Vertical				
596.5083	-64.15	-13.00	51.15	106	355	Vertical				
3886.0295	-61.80	-13.00	48.80	198	355	Vertical				
7365.1455	-56.01	-13.00	43.01	184	291	Vertical				
17998.5000	-40.32	-13.00	27.32	128	131	Vertical				
44.1627	-64.53	-13.00	51.53	185	355	Horizontal				
85.6808	-75.73	-13.00	62.73	166	99	Horizontal				
232.2066	-67.64	-13.00	54.64	138	355	Horizontal				
3593.0198	-60.71	-13.00	47.71	122	36	Horizontal				
7360.1453	-56.66	-13.00	43.66	186	36	Horizontal				
16399.4466	-43.91	-13.00	30.91	206	131	Horizontal				

7.1.2. Test Channel = MCH

7.1.2. Test Chaimer = MCH										
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization				
30.8730	-67.30	-13.00	54.30	185	355	Vertical				
111.8236	-64.89	-13.00	51.89	106	36	Vertical				
603.6867	-63.84	-13.00	50.84	111	195	Vertical				
3757.0252	-62.08	-13.00	49.08	206	355	Vertical				
7382.1461	-55.57	-13.00	42.57	296	323	Vertical				
17994.9998	-39.84	-13.00	26.84	211	36	Vertical				
41.7861	-64.01	-13.00	51.01	184	227	Horizontal				
102.5111	-74.13	-13.00	61.13	166	258	Horizontal				
232.7886	-67.84	-13.00	54.84	133	323	Horizontal				
3632.0211	-60.94	-13.00	47.94	184	258	Horizontal				
7477.1492	-56.52	-13.00	43.52	125	195	Horizontal				
16401.4467	-43.17	-13.00	30.17	196	68	Horizontal				





Report No.: ZR/2020/9004101-01

Page: 43 of 50

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
30.6305	-69.91	-13.00	56.91	186	41	Vertical
115.5583	-65.06	-13.00	52.06	133	201	Vertical
478.9384	-66.24	-13.00	53.24	125	358	Vertical
5051.5684	-62.20	-13.00	49.20	169	297	Vertical
7356.6452	-55.60	-13.00	42.60	122	233	Vertical
17999.5000	-40.29	-13.00	27.29	175	41	Vertical
41.6891	-63.79	-13.00	50.79	218	131	Horizontal
98.7764	-75.49	-13.00	62.49	211	322	Horizontal
233.5647	-67.67	-13.00	54.67	177	258	Horizontal
3623.0208	-61.56	-13.00	48.56	185	227	Horizontal
7483.6495	-56.75	-13.00	43.75	126	195	Horizontal
16398.4466	-43.95	-13.00	30.95	194	258	Horizontal



Report No.: ZR/2020/9004101-01

Page: 44 of 50

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
30.7760	-64.97	-13.00	51.97	263	35	Vertical
110.9020	-63.81	-13.00	50.81	211	226	Vertical
337.6024	-67.49	-13.00	54.49	284	226	Vertical
1764.1528	-62.19	-13.00	49.19	106	86	Vertical
3000.0000	-55.50	-13.00	42.50	194	294	Vertical
9893.5965	-52.29	-13.00	39.29	184	226	Vertical
44.7932	-61.97	-13.00	48.97	152	227	Horizontal
97.2729	-74.51	-13.00	61.51	184	35	Horizontal
241.8101	-67.56	-13.00	54.56	169	291	Horizontal
1779.3559	-60.38	-13.00	47.38	132	250	Horizontal
2699.9400	-55.15	-13.00	42.15	206	329	Horizontal
9331.7111	-52.69	-13.00	39.69	277	291	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.1156	-66.08	-13.00	53.08	296	227	Vertical
109.8350	-64.09	-13.00	51.09	221	259	Vertical
372.3786	-66.90	-13.00	53.90	263	227	Vertical
1777.3555	-61.20	-13.00	48.20	278	173	Vertical
2473.4947	-56.41	-13.00	43.41	206	276	Vertical
9871.1957	-51.91	-13.00	38.91	175	227	Vertical
42.9016	-63.86	-13.00	50.86	261	355	Horizontal
98.4369	-74.72	-13.00	61.72	222	36	Horizontal
232.2066	-67.57	-13.00	54.57	296	355	Horizontal
1779.3559	-61.23	-13.00	48.23	231	28	Horizontal
2693.9388	-55.39	-13.00	42.39	284	239	Horizontal
9305.5769	-52.75	-13.00	39.75	211	227	Horizontal



Report No.: ZR/2020/9004101-01

Page: 45 of 50

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
31.1641	-67.26	-13.00	54.26	284	258	Vertical
111.3386	-64.20	-13.00	51.20	266	195	Vertical
383.8737	-65.91	-13.00	52.91	102	99	Vertical
1773.3547	-61.22	-13.00	48.22	178	115	Vertical
2687.9376	-56.33	-13.00	43.33	163	264	Vertical
9795.8265	-52.22	-13.00	39.22	128	322	Vertical
43.6292	-63.66	-13.00	50.66	263	163	Horizontal
82.7706	-74.35	-13.00	61.35	211	323	Horizontal
233.6132	-67.29	-13.00	54.29	103	195	Horizontal
1779.3559	-61.48	-13.00	48.48	284	229	Horizontal
2699.9400	-55.25	-13.00	42.25	169	23	Horizontal
9340.8114	-52.87	-13.00	39.87	184	259	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.



Report No.: ZR/2020/9004101-01

Page: 46 of 50

8. Frequency Stability

8.1. Frequency Error Vs Voltage

			Vo	oltage			
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	19.24	0.023344	±2.5	PASS
GSM850	128	VN	NT	19.08	0.023150	±2.5	PASS
GSM850	128	VH	NT	16.63	0.020177	±2.5	PASS
GSM850	190	VL	NT	19.82	0.023691	±2.5	PASS
GSM850	190	VN	NT	18.50	0.022113	±2.5	PASS
GSM850	190	VH	NT	16.63	0.019878	±2.5	PASS
GSM850	251	VL	NT	20.24	0.023845	±2.5	PASS
GSM850	251	VN	NT	20.79	0.024493	±2.5	PASS
GSM850	251	VH	NT	18.98	0.022361	±2.5	PASS
EGPRS850	128	VL	NT	31.77	0.038546	±2.5	PASS
EGPRS850	128	VN	NT	31.19	0.037843	±2.5	PASS
EGPRS850	128	VH	NT	29.96	0.036350	±2.5	PASS
EGPRS850	190	VL	NT	29.06	0.034736	±2.5	PASS
EGPRS850	190	VN	NT	29.77	0.035585	±2.5	PASS
EGPRS850	190	VH	NT	29.41	0.035154	±2.5	PASS
EGPRS850	251	VL	NT	27.96	0.032941	±2.5	PASS
EGPRS850	251	VN	NT	29.41	0.034649	±2.5	PASS
EGPRS850	251	VH	NT	33.25	0.039173	±2.5	PASS
GSM1900	512	VL	NT	5.59	0.003021	±2.5	PASS
GSM1900	512	VN	NT	7.97	0.004308	±2.5	PASS
GSM1900	512	VH	NT	12.69	0.006859	±2.5	PASS
GSM1900	661	VL	NT	7.33	0.003899	±2.5	PASS
GSM1900	661	VN	NT	8.65	0.004601	±2.5	PASS
GSM1900	661	VH	NT	6.78	0.003606	±2.5	PASS
GSM1900	810	VL	NT	12.91	0.006760	±2.5	PASS
GSM1900	810	VN	NT	10.49	0.005493	±2.5	PASS
GSM1900	810	VH	NT	11.95	0.006257	±2.5	PASS
EGPRS1900	512	VL	NT	19.37	0.010469	±2.5	PASS
EGPRS1900	512	VN	NT	20.18	0.010907	±2.5	PASS
EGPRS1900	512	VH	NT	25.76	0.013923	±2.5	PASS
EGPRS1900	661	VL	NT	20.24	0.010766	±2.5	PASS



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Report No.: ZR/2020/9004101-01

Page: 47 of 50

EGPRS1900	661	VN	NT	16.56	0.008809	±2.5	PASS
EGPRS1900	661	VH	NT	23.76	0.012638	±2.5	PASS
EGPRS1900	810	VL	NT	22.37	0.011713	±2.5	PASS
EGPRS1900	810	VN	NT	23.15	0.012122	±2.5	PASS
EGPRS1900	810	VH	NT	22.86	0.011970	±2.5	PASS

8.2. Frequency Error Vs Temperature

			Tem	perature			
Band	Channel	Voltage [Vdc]	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	14.79	0.017945	±2.5	PASS
GSM850	128	NV	-20	18.79	0.022798	±2.5	PASS
GSM850	128	NV	-10	19.37	0.023502	±2.5	PASS
GSM850	128	NV	0	19.86	0.024096	±2.5	PASS
GSM850	128	NV	10	14.69	0.017823	±2.5	PASS
GSM850	128	NV	20	15.11	0.018333	±2.5	PASS
GSM850	128	NV	30	16.82	0.020408	±2.5	PASS
GSM850	128	NV	40	17.60	0.021354	±2.5	PASS
GSM850	128	NV	50	16.27	0.019740	±2.5	PASS
GSM850	190	NV	-30	18.27	0.021838	±2.5	PASS
GSM850	190	NV	-20	18.21	0.021767	±2.5	PASS
GSM850	190	NV	-10	18.69	0.022340	±2.5	PASS
GSM850	190	NV	0	19.24	0.022998	±2.5	PASS
GSM850	190	NV	10	17.95	0.021456	±2.5	PASS
GSM850	190	NV	20	16.92	0.020225	±2.5	PASS
GSM850	190	NV	30	19.21	0.022962	±2.5	PASS
GSM850	190	NV	40	16.59	0.019830	±2.5	PASS
GSM850	190	NV	50	15.72	0.018790	±2.5	PASS
GSM850	251	NV	-30	21.99	0.025907	±2.5	PASS
GSM850	251	NV	-20	19.18	0.022597	±2.5	PASS
GSM850	251	NV	-10	16.53	0.019475	±2.5	PASS
GSM850	251	NV	0	16.18	0.019062	±2.5	PASS
GSM850	251	NV	10	22.47	0.026473	±2.5	PASS
GSM850	251	NV	20	19.79	0.023315	±2.5	PASS
GSM850	251	NV	30	19.63	0.023127	±2.5	PASS
GSM850	251	NV	40	19.31	0.022750	±2.5	PASS
GSM850	251	NV	50	22.44	0.026437	±2.5	PASS



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Report No.: ZR/2020/9004101-01

Page: 48 of 50

	•	T		•			
EGPRS850	128	NV	-30	31.28	0.037952	±2.5	PASS
EGPRS850	128	NV	-20	26.99	0.032747	±2.5	PASS
EGPRS850	128	NV	-10	28.96	0.035137	±2.5	PASS
EGPRS850	128	NV	0	30.41	0.036896	±2.5	PASS
EGPRS850	128	NV	10	30.96	0.037564	±2.5	PASS
EGPRS850	128	NV	20	30.93	0.037527	±2.5	PASS
EGPRS850	128	NV	30	31.06	0.037685	±2.5	PASS
EGPRS850	128	NV	40	31.93	0.038741	±2.5	PASS
EGPRS850	128	NV	50	29.09	0.035295	±2.5	PASS
EGPRS850	190	NV	-30	29.67	0.035465	±2.5	PASS
EGPRS850	190	NV	-20	30.74	0.036744	±2.5	PASS
EGPRS850	190	NV	-10	29.15	0.034843	±2.5	PASS
EGPRS850	190	NV	0	29.93	0.035776	±2.5	PASS
EGPRS850	190	NV	10	27.96	0.033421	±2.5	PASS
EGPRS850	190	NV	20	30.12	0.036003	±2.5	PASS
EGPRS850	190	NV	30	27.73	0.033146	±2.5	PASS
EGPRS850	190	NV	40	29.12	0.034808	±2.5	PASS
EGPRS850	190	NV	50	28.31	0.033839	±2.5	PASS
EGPRS850	251	NV	-30	30.61	0.036063	±2.5	PASS
EGPRS850	251	NV	-20	31.19	0.036746	±2.5	PASS
EGPRS850	251	NV	-10	29.57	0.034837	±2.5	PASS
EGPRS850	251	NV	0	30.70	0.036169	±2.5	PASS
EGPRS850	251	NV	10	30.12	0.035485	±2.5	PASS
EGPRS850	251	NV	20	32.32	0.038077	±2.5	PASS
EGPRS850	251	NV	30	29.44	0.034684	±2.5	PASS
EGPRS850	251	NV	40	30.06	0.035415	±2.5	PASS
EGPRS850	251	NV	50	32.38	0.038148	±2.5	PASS
GSM1900	512	NV	-30	11.11	0.006005	±2.5	PASS
GSM1900	512	NV	-20	7.33	0.003962	±2.5	PASS
GSM1900	512	NV	-10	3.42	0.001848	±2.5	PASS
GSM1900	512	NV	0	11.56	0.006248	±2.5	PASS
GSM1900	512	NV	10	9.65	0.005216	±2.5	PASS
GSM1900	512	NV	20	6.84	0.003697	±2.5	PASS
GSM1900	512	NV	30	10.62	0.005740	±2.5	PASS
GSM1900	512	NV	40	5.23	0.002827	±2.5	PASS
GSM1900	512	NV	50	12.72	0.006875	±2.5	PASS
GSM1900	661	NV	-30	3.81	0.002027	±2.5	PASS



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Report No.: ZR/2020/9004101-01

Page: 49 of 50

GSM1900	661	NV	-20	7.81	0.004154	±2.5	PASS
GSM1900	661	NV	-10	5.59	0.002973	±2.5	PASS
GSM1900	661	NV	0	-0.03	-0.000016	±2.5	PASS
GSM1900	661	NV	10	3.33	0.001771	±2.5	PASS
GSM1900	661	NV	20	4.16	0.002213	±2.5	PASS
GSM1900	661	NV	30	6.97	0.003707	±2.5	PASS
GSM1900	661	NV	40	5.10	0.002713	±2.5	PASS
GSM1900	661	NV	50	3.68	0.001957	±2.5	PASS
GSM1900	810	NV	-30	9.14	0.004786	±2.5	PASS
GSM1900	810	NV	-20	10.07	0.005273	±2.5	PASS
GSM1900	810	NV	-10	13.53	0.007085	±2.5	PASS
GSM1900	810	NV	0	16.82	0.008807	±2.5	PASS
GSM1900	810	NV	10	10.78	0.005645	±2.5	PASS
GSM1900	810	NV	20	16.40	0.008587	±2.5	PASS
GSM1900	810	NV	30	15.21	0.007964	±2.5	PASS
GSM1900	810	NV	40	12.07	0.006320	±2.5	PASS
GSM1900	810	NV	50	11.14	0.005833	±2.5	PASS
EGPRS1900	512	NV	-30	23.12	0.012496	±2.5	PASS
EGPRS1900	512	NV	-20	22.99	0.012426	±2.5	PASS
EGPRS1900	512	NV	-10	23.54	0.012723	±2.5	PASS
EGPRS1900	512	NV	0	24.21	0.013085	±2.5	PASS
EGPRS1900	512	NV	10	21.63	0.011691	±2.5	PASS
EGPRS1900	512	NV	20	24.15	0.013053	±2.5	PASS
EGPRS1900	512	NV	30	22.99	0.012426	±2.5	PASS
EGPRS1900	512	NV	40	21.37	0.011550	±2.5	PASS
EGPRS1900	512	NV	50	19.50	0.010539	±2.5	PASS
EGPRS1900	661	NV	-30	21.05	0.011197	±2.5	PASS
EGPRS1900	661	NV	-20	21.83	0.011612	±2.5	PASS
EGPRS1900	661	NV	-10	22.83	0.012144	±2.5	PASS
EGPRS1900	661	NV	0	20.11	0.010697	±2.5	PASS
EGPRS1900	661	NV	10	24.76	0.013170	±2.5	PASS
EGPRS1900	661	NV	20	20.95	0.011144	±2.5	PASS
EGPRS1900	661	NV	30	23.28	0.012383	±2.5	PASS
EGPRS1900	661	NV	40	21.76	0.011574	±2.5	PASS
EGPRS1900	661	NV	50	19.82	0.010543	±2.5	PASS
EGPRS1900	810	NV	-30	26.89	0.014080	±2.5	PASS
EGPRS1900	810	NV	-20	22.37	0.011713	±2.5	PASS



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Report No.: ZR/2020/9004101-01

Page: 50 of 50

EGPRS1900	810	NV	-10	24.63	0.012897	±2.5	PASS
EGPRS1900	810	NV	0	24.89	0.013033	±2.5	PASS
EGPRS1900	810	NV	10	22.96	0.012022	±2.5	PASS
EGPRS1900	810	NV	20	23.47	0.012289	±2.5	PASS
EGPRS1900	810	NV	30	20.34	0.010650	±2.5	PASS
EGPRS1900	810	NV	40	22.63	0.011849	±2.5	PASS
EGPRS1900	810	NV	50	25.47	0.013336	±2.5	PASS

The End



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