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Appendix B

GSM850&1900



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1 Effective (Isotropic) Radiated Power Output Data

1.1. Part I - Test Results

Main Antenna

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP[dBm]	Limit[dBm]	Verdict
	GSM/TM1	LCH	33.66	27.91	38.45	PASS
		MCH	33.77	28.02	38.45	PASS
GSM 850		HCH	33.74	27.99	38.45	PASS
G3W 650	GSM/TM2	LCH	26.14	20.39	38.45	PASS
		MCH	26.12	20.37	38.45	PASS
		HCH	26.41	20.66	38.45	PASS

Test Band	Test Mode	Test Channel	Measured [dBm]	EIRP[dBm]	Limit[dBm]	Verdict
	GSM/TM1	LCH	30.99	29.59	33	PASS
		MCH	31.01	29.61	33	PASS
CCM 1000		HCH	30.78	29.38	33	PASS
GSM 1900	GSM/TM2	LCH	26.40	25.00	33	PASS
		MCH	26.13	24.73	33	PASS
		HCH	25.78	24.38	33	PASS

Secondary Antenna

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP[dBm]	Limit[dBm]	Verdict
	GSM/TM1	LCH	33.01	27.26	38.45	PASS
		MCH	33.21	27.46	38.45	PASS
GSM 850		HCH	33.32	27.57	38.45	PASS
G3W 650	GSM/TM2	LCH	25.73	19.98	38.45	PASS
		MCH	25.78	20.03	38.45	PASS
		HCH	25.79	20.04	38.45	PASS

Test Band	Test Mode	Test Channel	Measured [dBm]	EIRP[dBm]	Limit[dBm]	Verdict
	GSM/TM1	LCH	28.48	25.88	33	PASS
		MCH	28.39	25.79	33	PASS
GSM 1900		HCH	28.38	25.78	33	PASS
G2M 1900	GSM/TM2	LCH	24.21	21.61	33	PASS
		MCH	24.04	21.44	33	PASS
		HCH	23.89	21.29	33	PASS



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Remark:

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

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



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2 Peak-to-Average Ratio

2.1. Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	7.86	13	PASS
	GSM/TM1	MCH	7.83	13	PASS
GSM 850		HCH	7.80	13	PASS
G 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		LCH	10.64	13	PASS
	GSM/TM2	MCH	7.83	13	PASS
		HCH	10.12	13	PASS
	GSM/TM1	LCH	7.86	13	PASS
		MCH	7.88	13	PASS
GSM 1900		HCH	7.94	13	PASS
G3W 1900	GSM/TM2	LCH	11.07	13	PASS
		MCH	10.26	13	PASS
		HCH	10.70	13	PASS

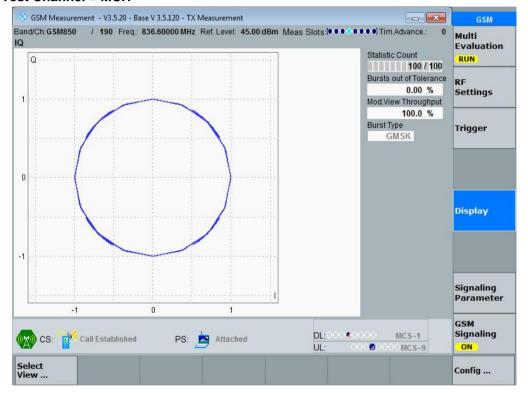


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3 **Modulation Characteristics**

Part I - Test Plots

- 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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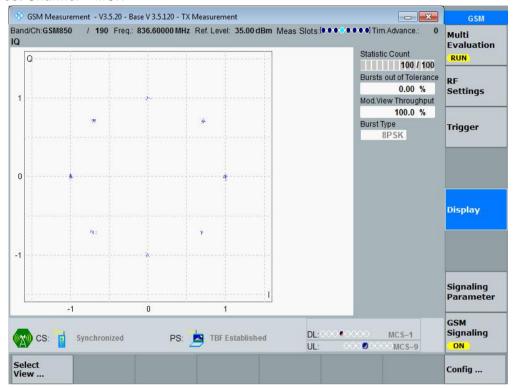


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Test Mode = GSM/TM2

3.1.1.2.1 Test Channel = MCH



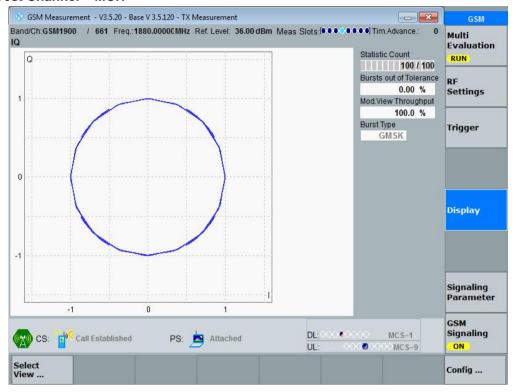


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3.1.2 Test Band = GSM 1900

Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH





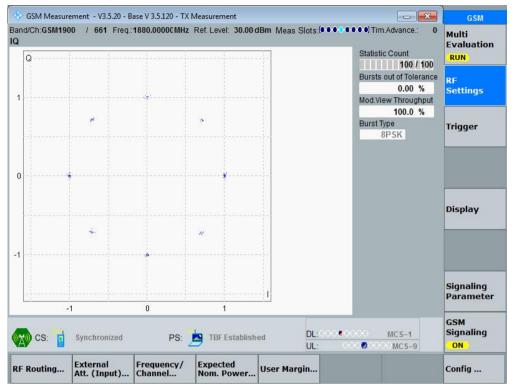


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3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

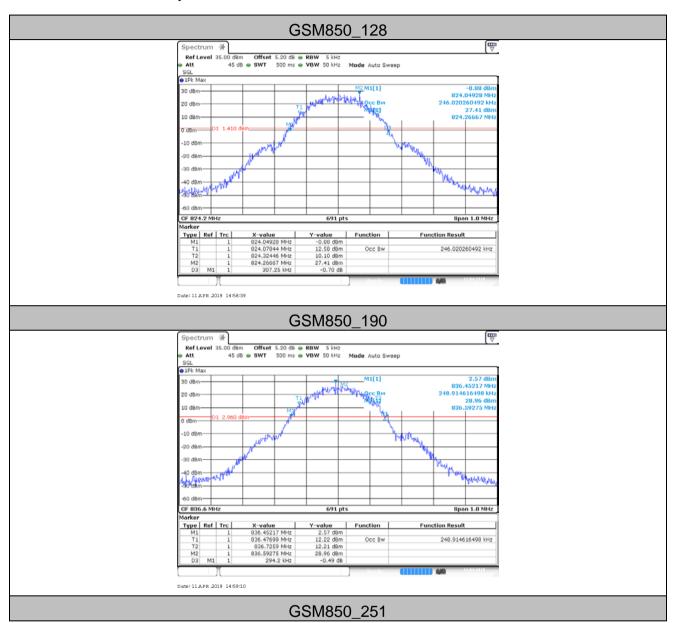
Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
		LCH	246.02	307.25	PASS
	GSM/TM1	MCH	248.91	294.20	PASS
GSM 850		HCH	243.13	301.45	PASS
GSIVI 650	GSM/TM2	LCH	251.81	305.80	PASS
		MCH	256.15	323.19	PASS
		HCH	254.70	307.25	PASS
		LCH	247.47	307.25	PASS
	GSM/TM1 GSM/TM2	MCH	247.47	314.49	PASS
CSM 1000		HCH	248.91	313.04	PASS
GSM 1900		LCH	250.36	305.80	PASS
		MCH	253.26	310.14	PASS
		HCH	253.26	284.06	PASS



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4.1 For GSM

4.1.1 **Test Graphs**





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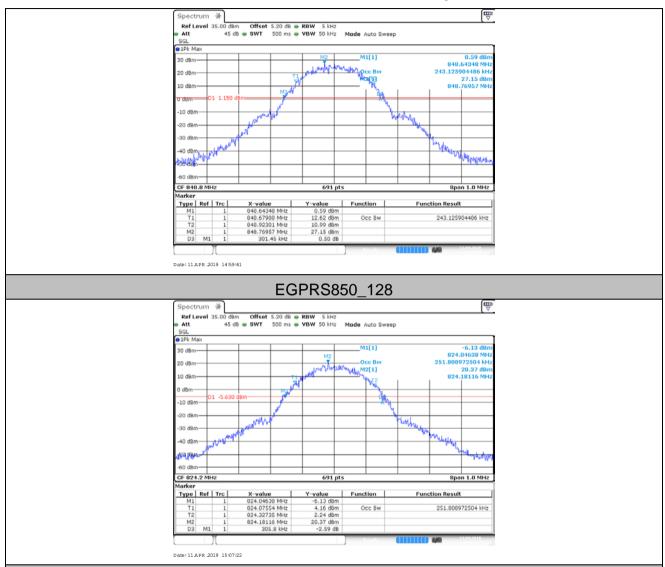
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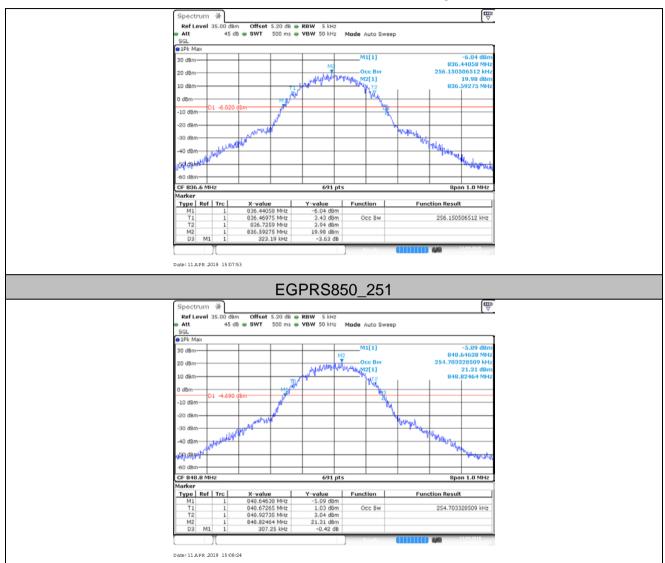
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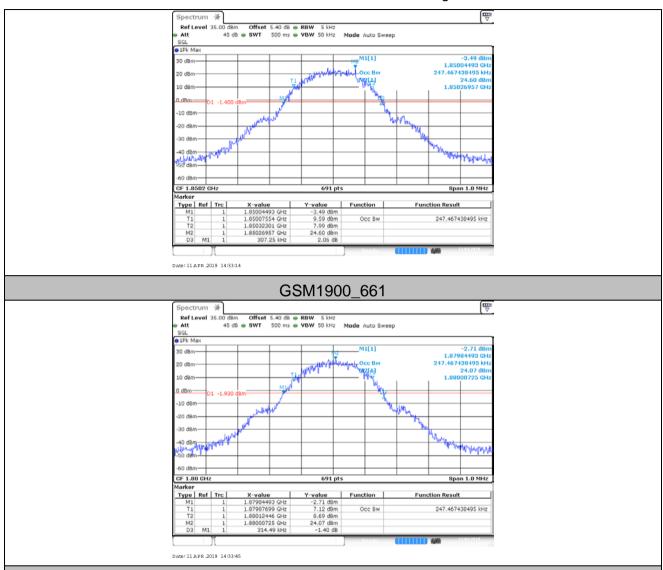
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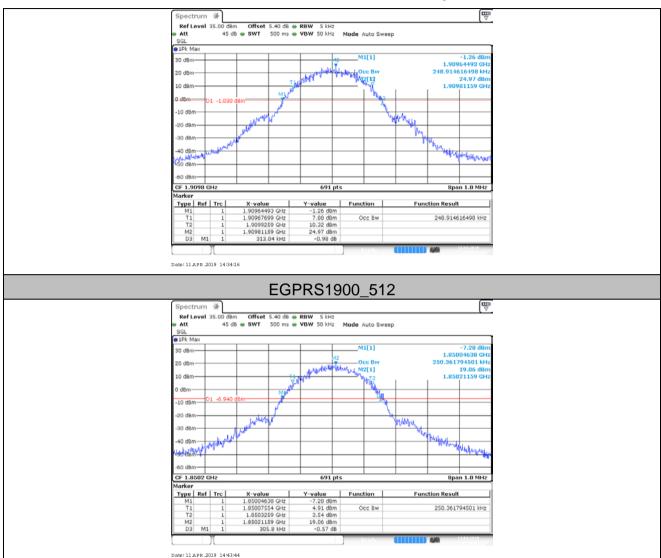
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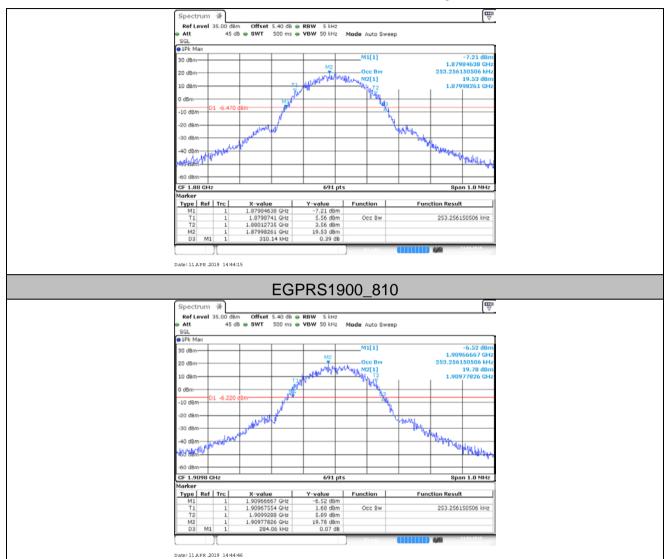
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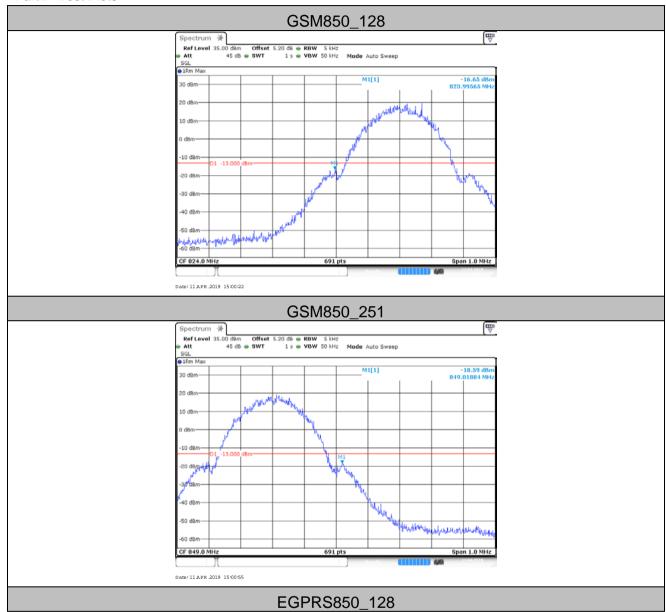
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Band Edges Compliance

Part I - Test Plots





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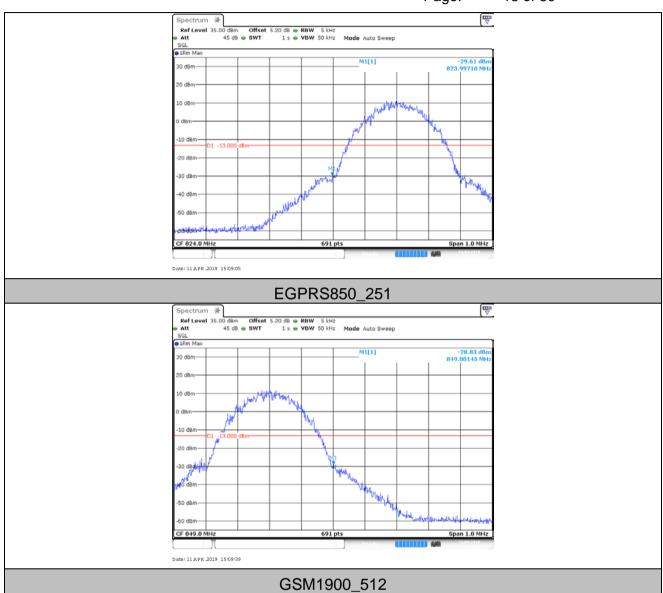
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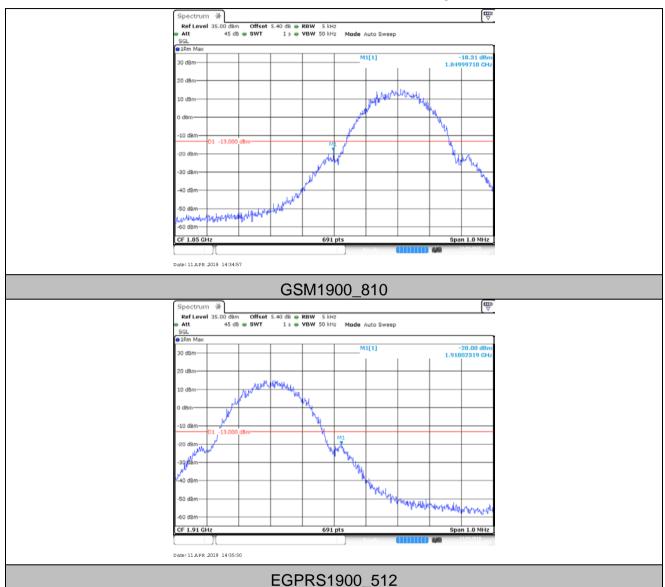
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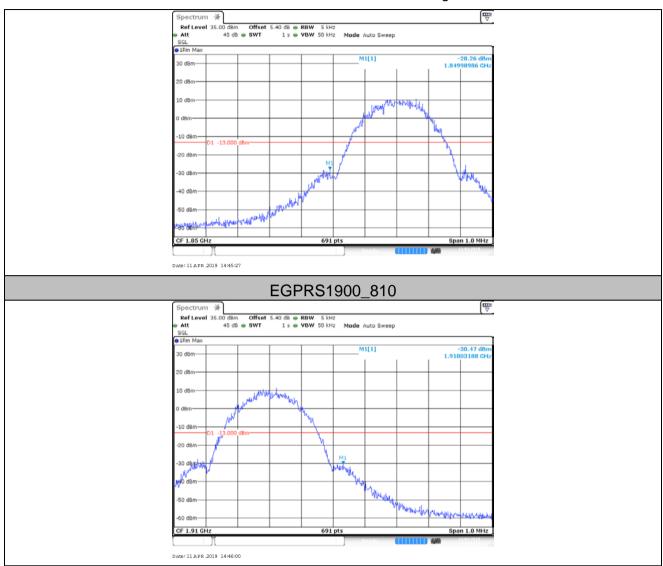
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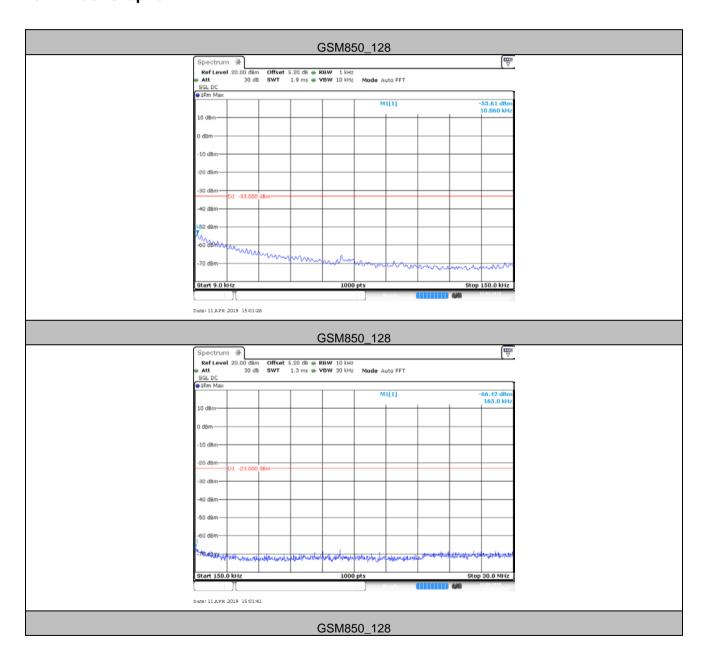
6 Spurious Emission at Antenna Terminal

REMARK: 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.

Part I - Test Plots

6.1 For GSM

6.1.1 Test Graphs





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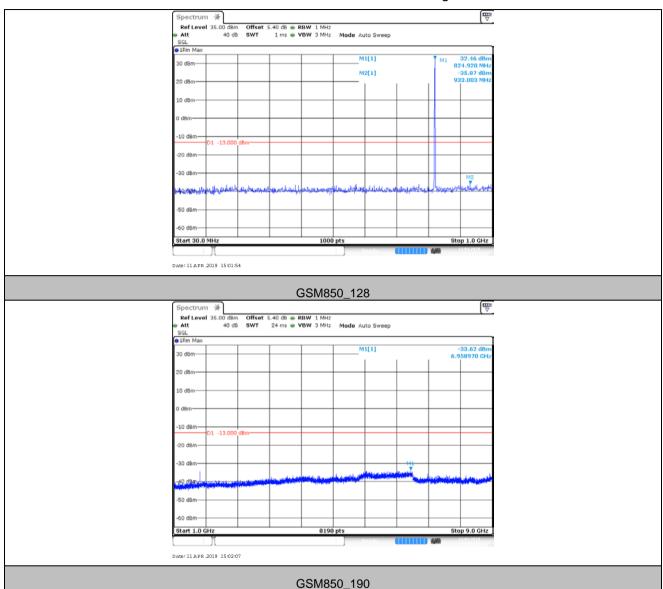
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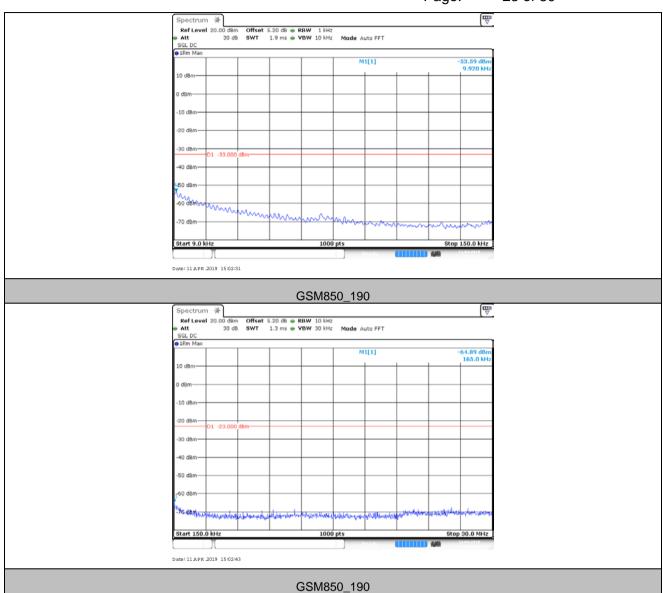
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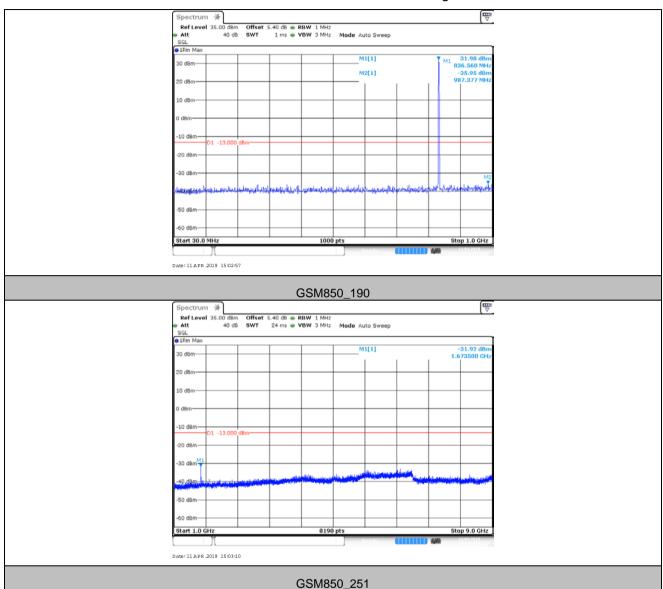
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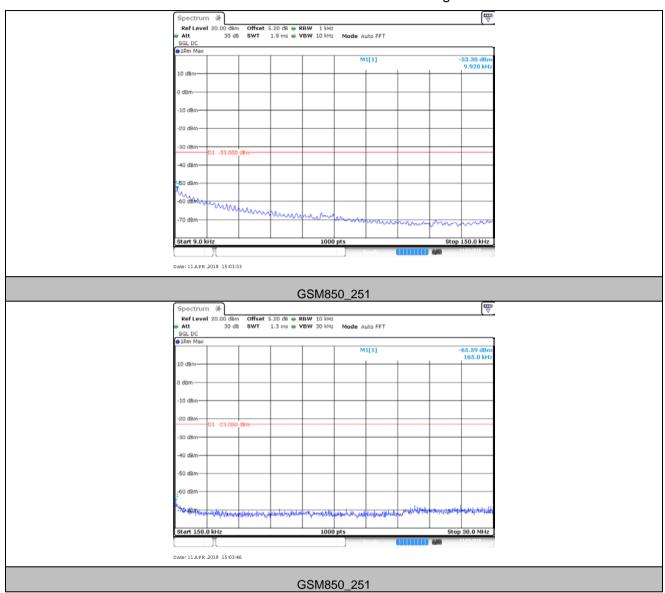
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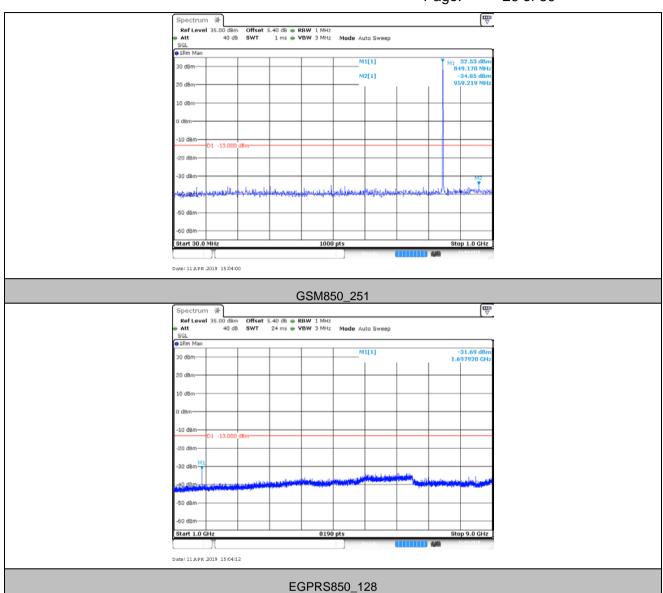
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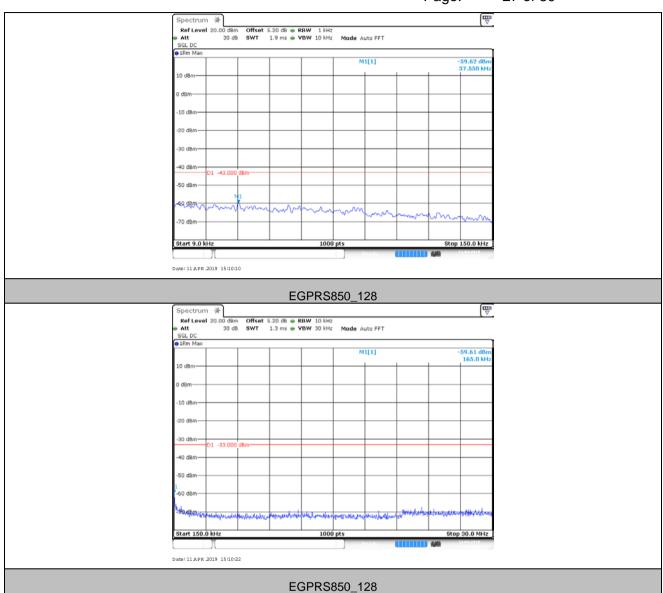
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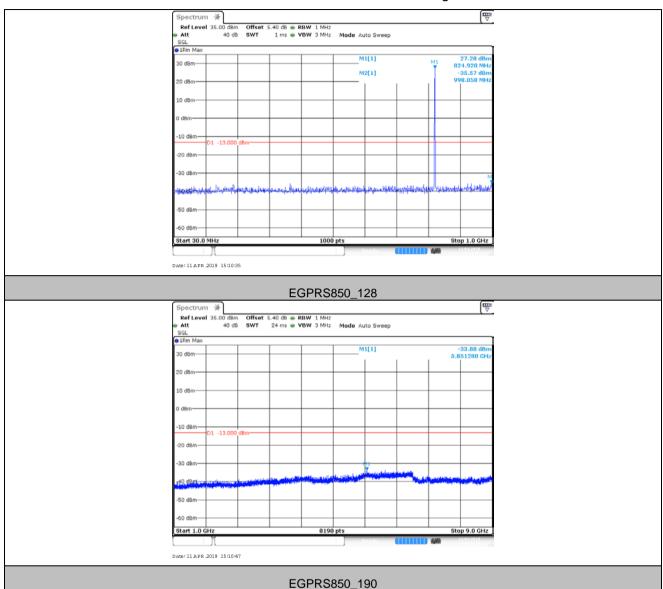
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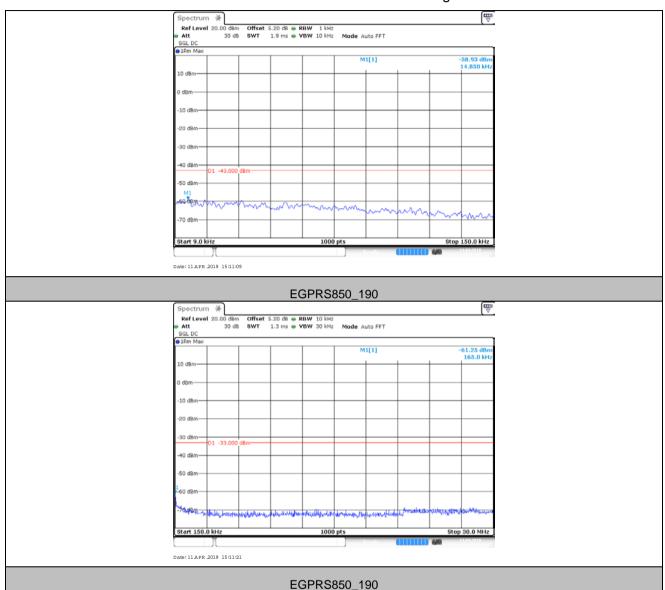
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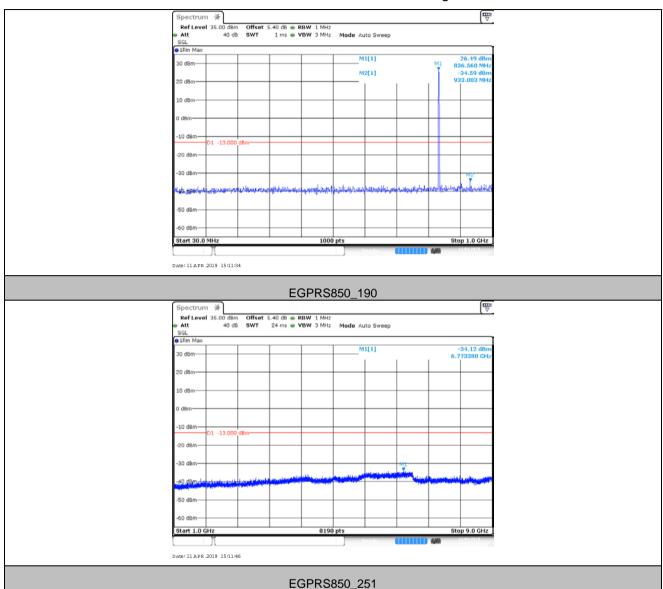
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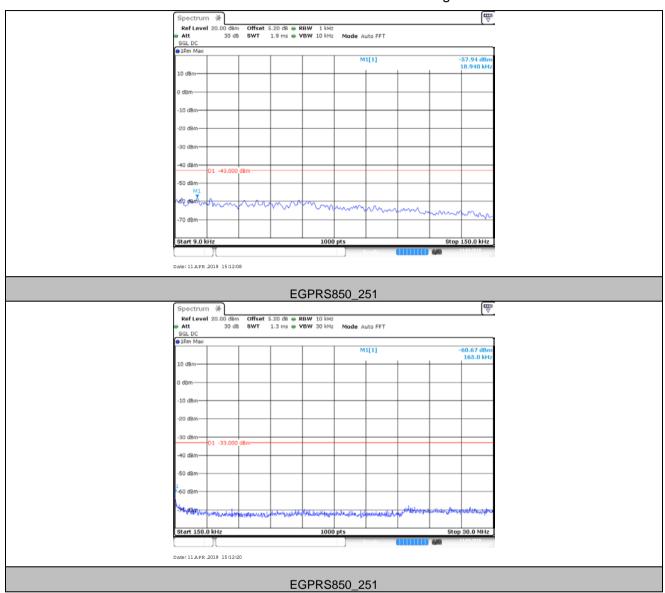
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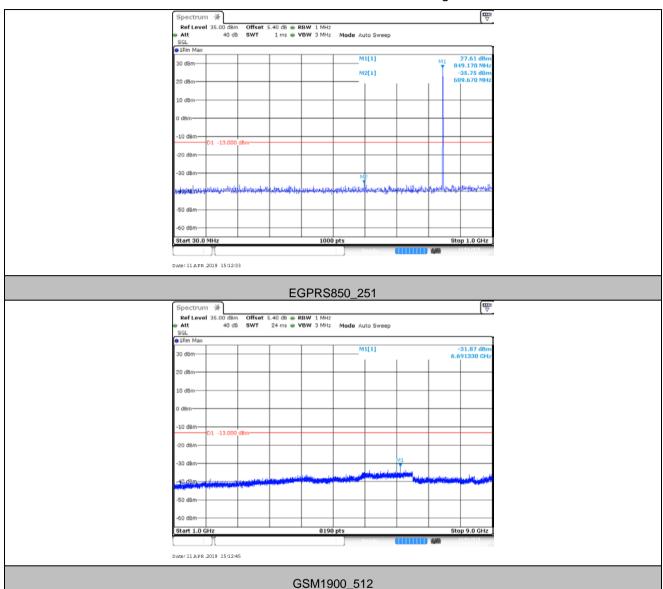
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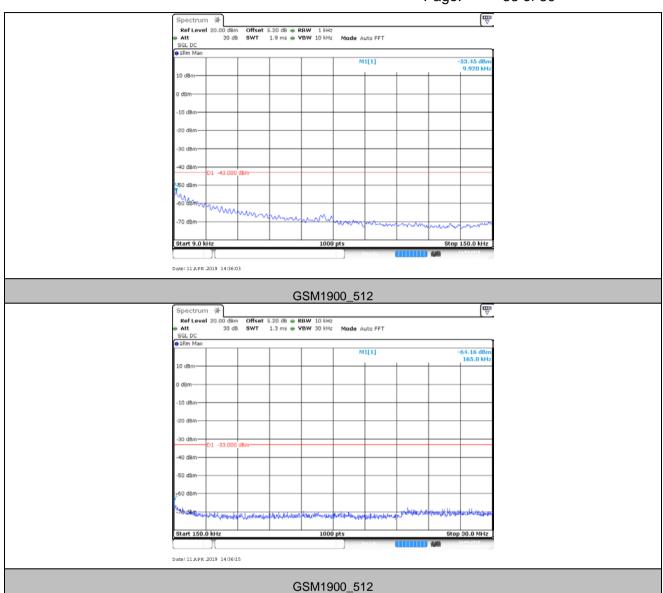
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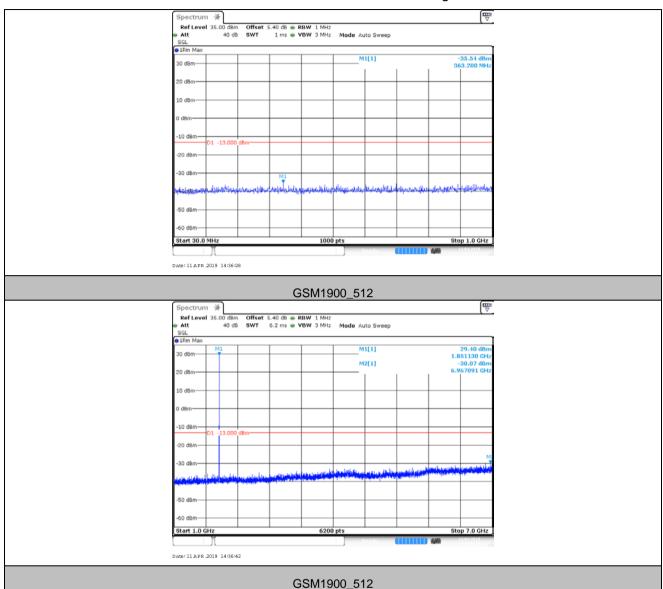
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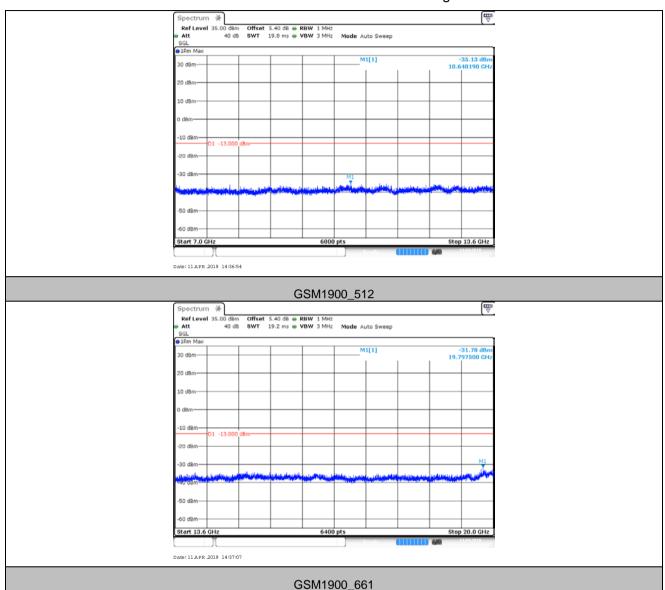
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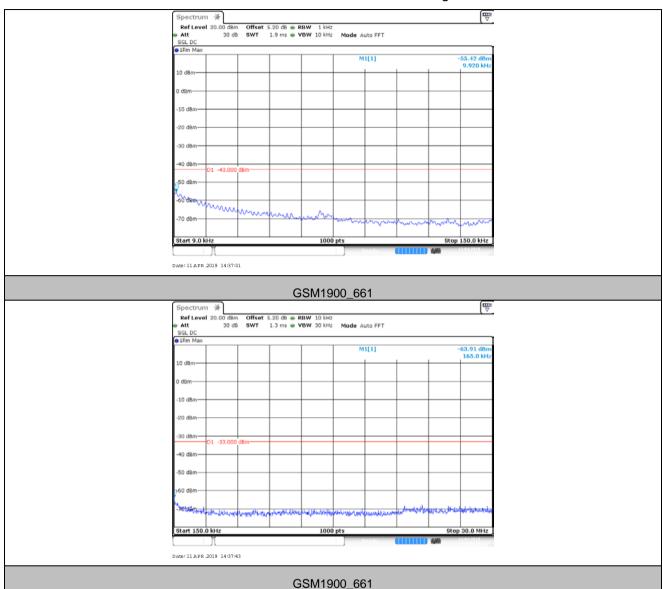
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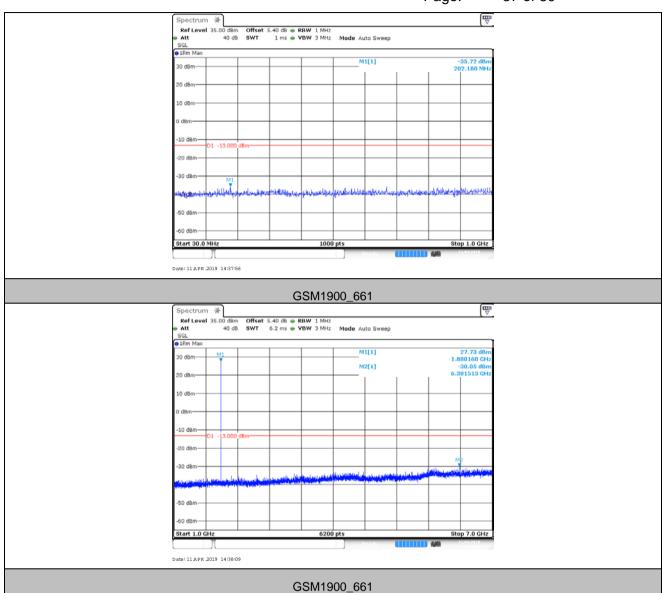
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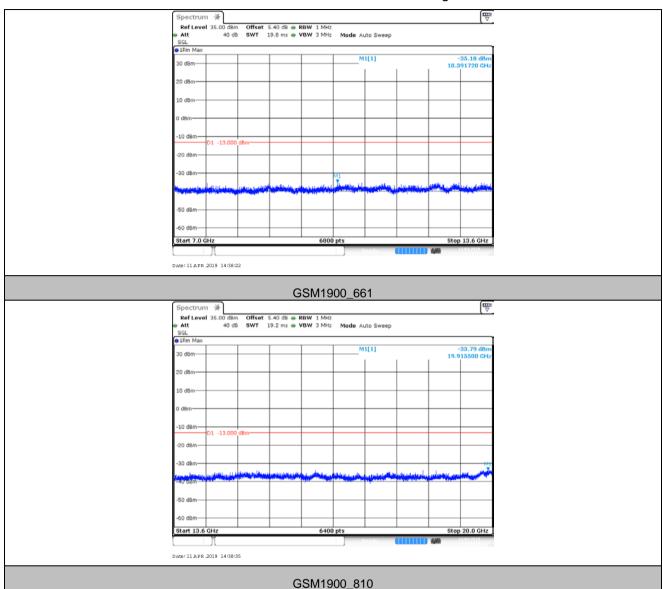
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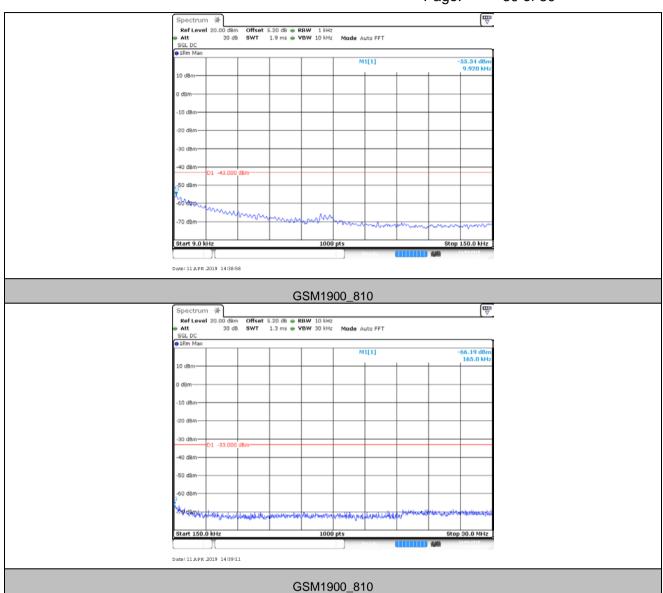
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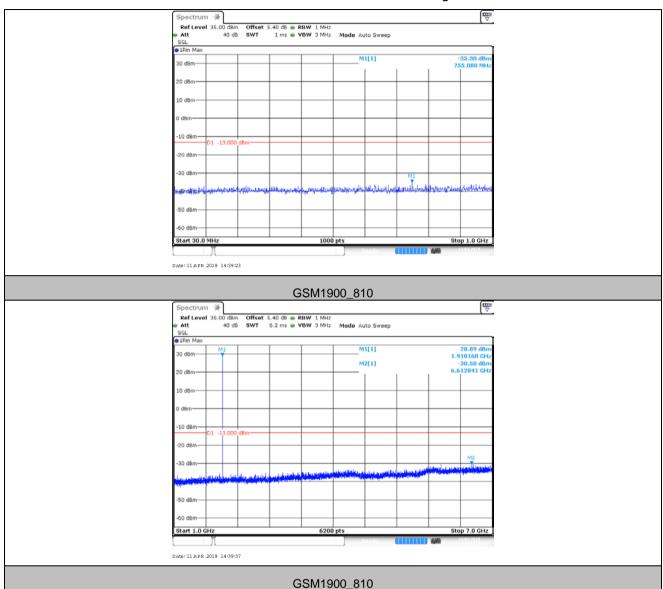
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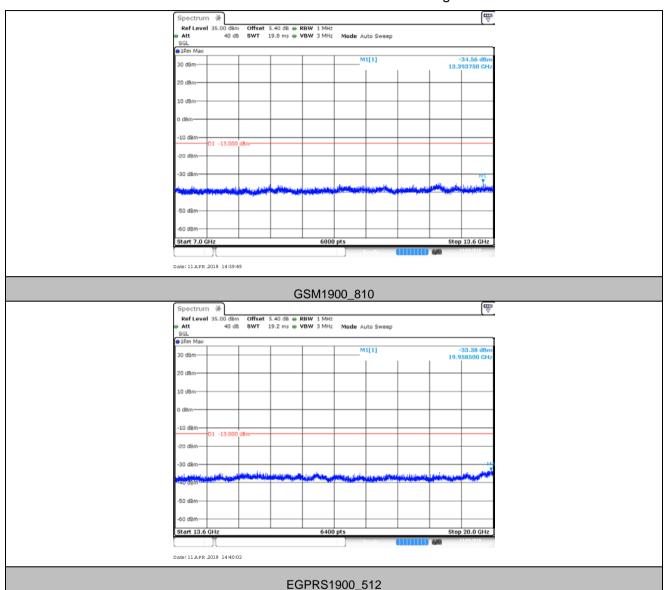
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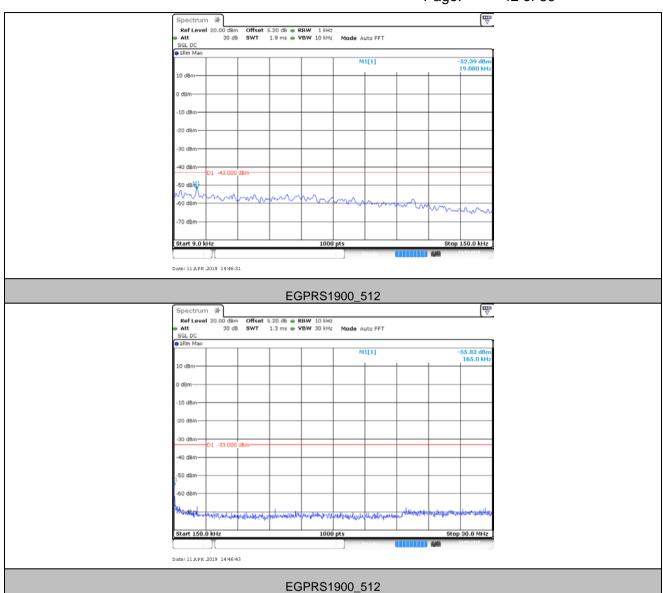
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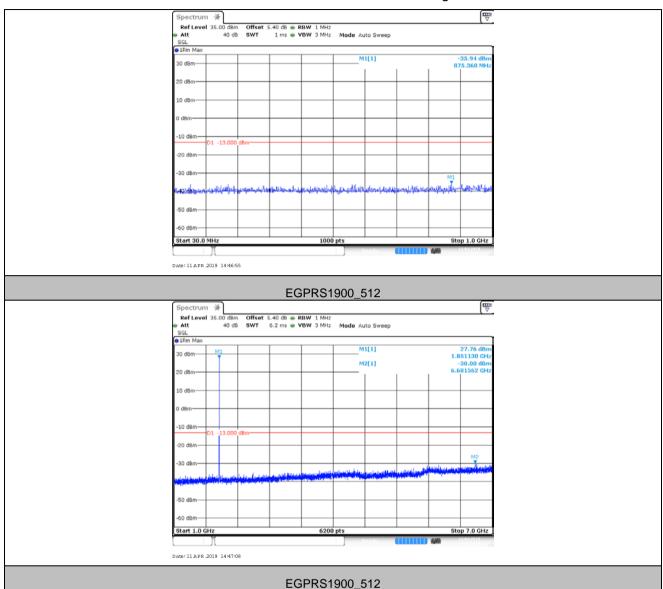
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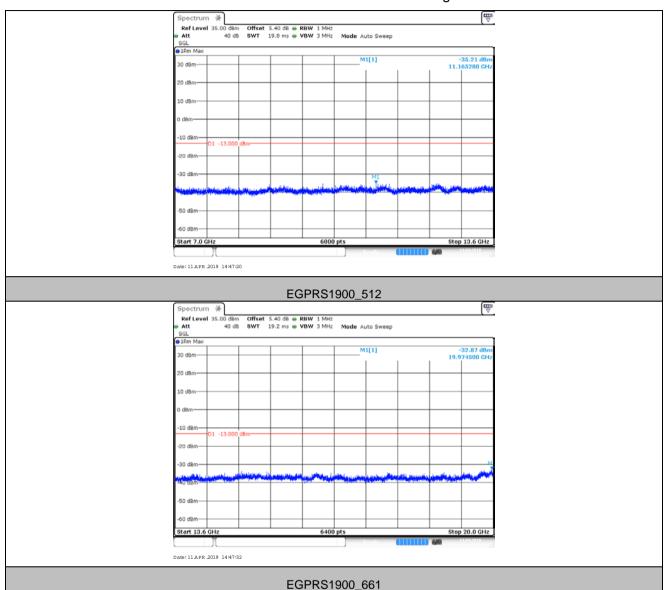
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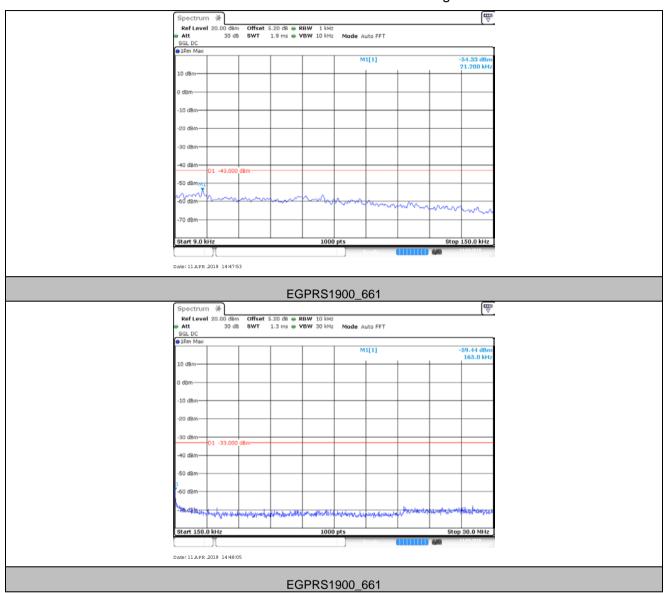
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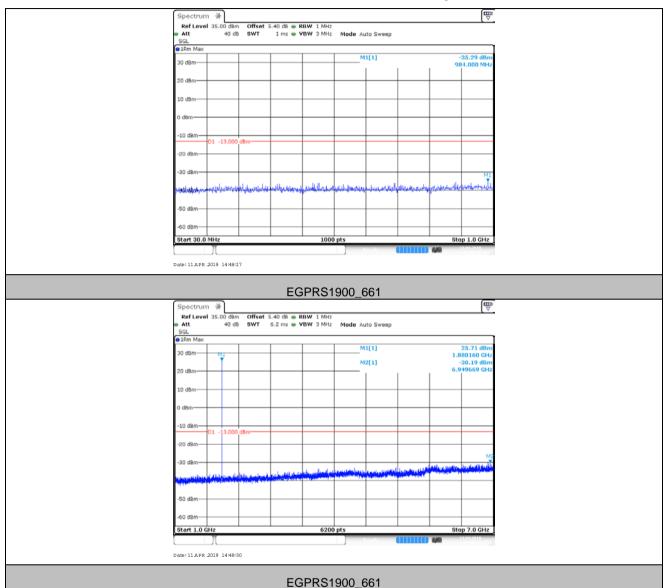
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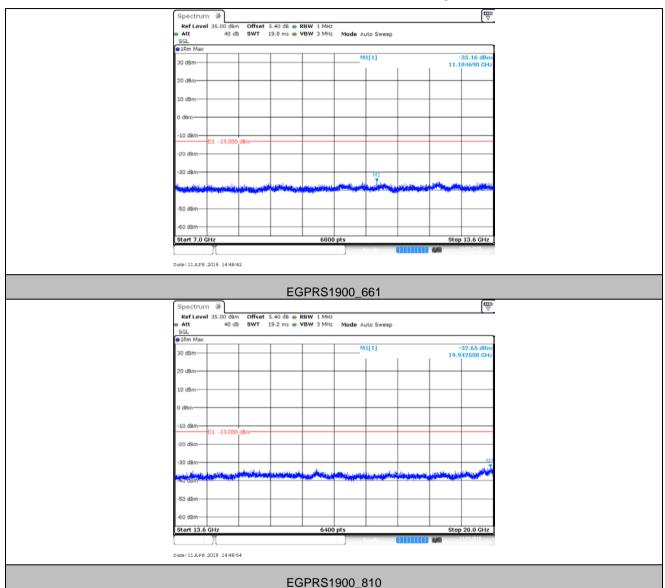
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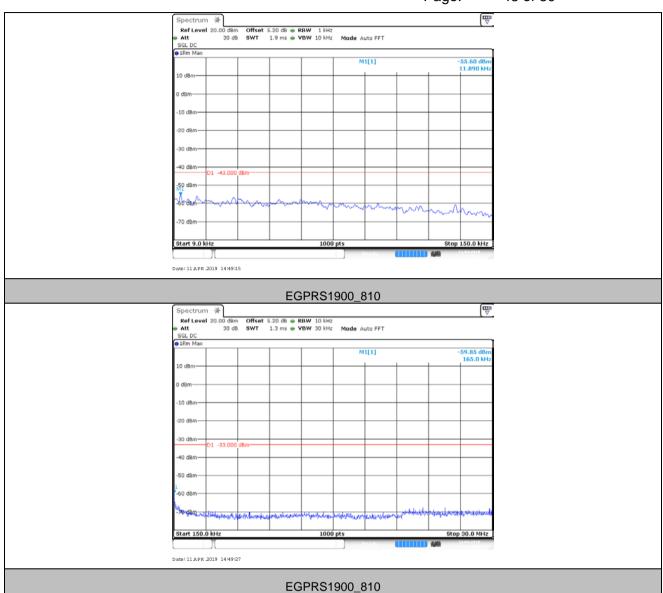
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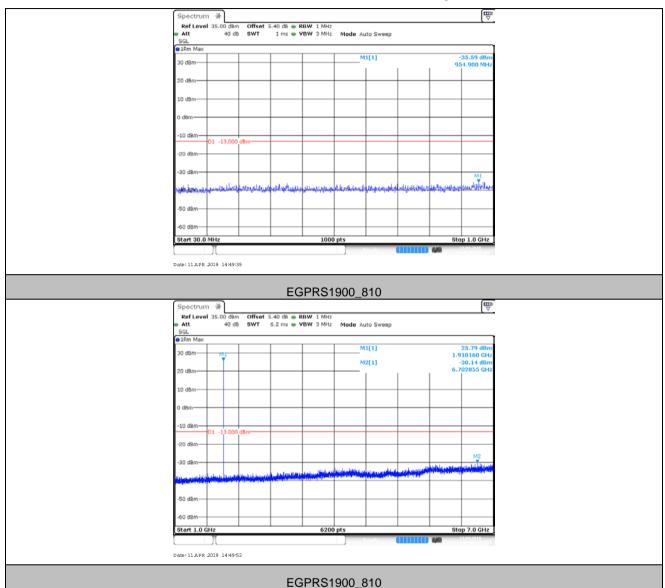
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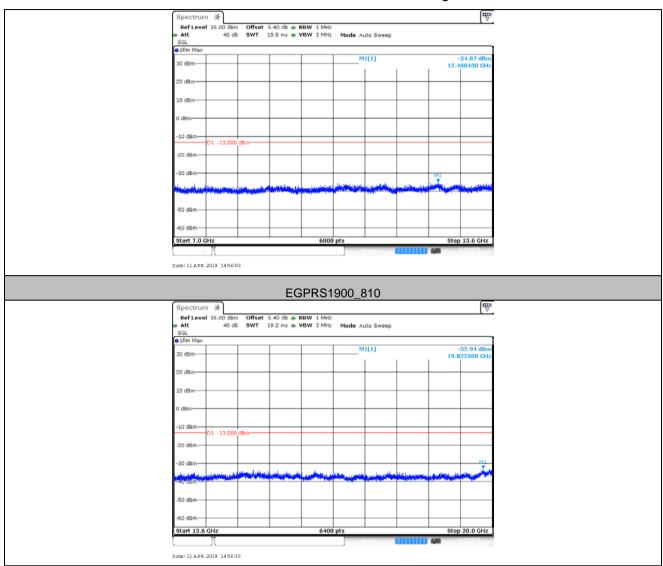
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7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For GSM

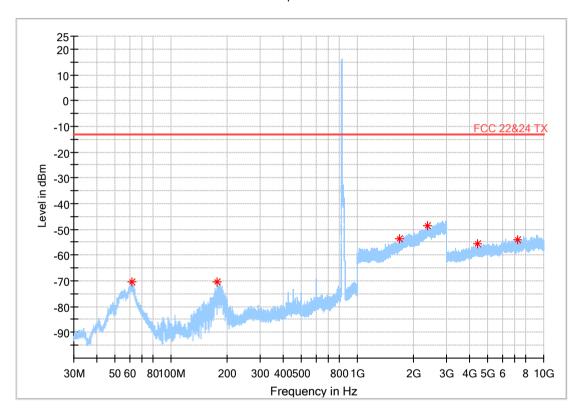
7.1.1 Main Antenna

7.1.1.1 Test Band = GSM 850

7.1.1.1.1 Test Channel = LCH

7.1.1.1.1 Horizontal

Full Spectrum



Critical Freqs

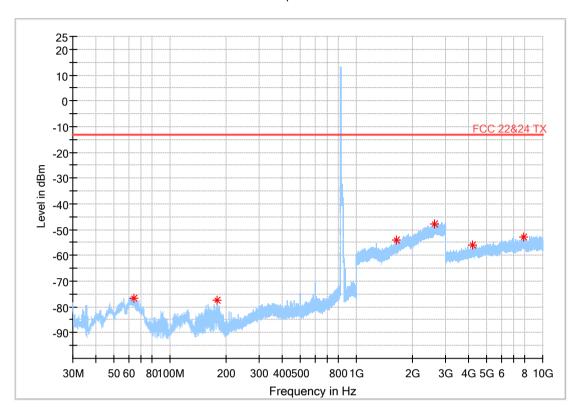
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.816000	-70.35	-13.00	57.35			200.0	Н	354.0	-107.2
176.906500	-70.56	-13.00	57.56			200.0	Н	29.0	-119.9
1673.475000	-53.65	-13.00	40.65			200.0	Η	53.0	-97.6
2387.250000	-48.41	-13.00	35.41			200.0	Η	339.0	-91.5
4410.500000	-55.63	-13.00	42.63			200.0	Н	253.0	-102.7
7202.450000	-53.96	-13.00	40.96			200.0	Η	305.0	-99.5



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7.1.1.1.1.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.192500	-76.64	-13.00	63.64			200.0	٧	209.0	-112.4
177.925000	-77.59	-13.00	64.59			200.0	٧	280.0	-122.0
1648.875000	-54.18	-13.00	41.18			200.0	٧	170.0	-97.8
2627.250000	-47.96	-13.00	34.96			200.0	٧	261.0	-90.9
4199.800000	-56.11	-13.00	43.11			200.0	٧	266.0	-103.2
7870.600000	-52.73	-13.00	39.73			200.0	٧	130.0	-97.9



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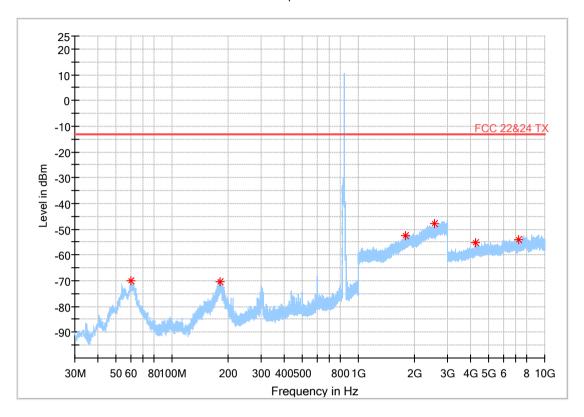
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Page: 53 of 80

7.1.1.1.2 Test Channel = MCH

7.1.1.2.1 Horizontal

Full Spectrum



Critical Fregs

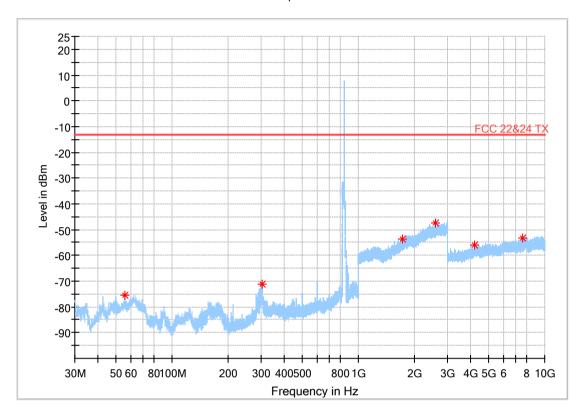
Frequency	MaxPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)
				(ms)					
60.070000	-70.12	-13.00	57.12			200.0	Н	9.0	-106.9
181.223000	-70.38	-13.00	57.38			200.0	Н	27.0	-119.9
1782.600000	-52.38	-13.00	39.38			200.0	Н	174.0	-96.2
2553.600000	-47.77	-13.00	34.77			200.0	Н	124.0	-92.0
4264.900000	-55.32	-13.00	42.32			200.0	Н	258.0	-102.8
7221.350000	-53.97	-13.00	40.97			200.0	Н	128.0	-99.5



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7.1.1.1.2.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.753500	-75.32	-13.00	62.32			200.0	٧	297.0	-114.0
303.734000	-71.36	-13.00	58.36			200.0	٧	353.0	-113.3
1719.300000	-53.55	-13.00	40.55			200.0	٧	210.0	-96.9
2608.050000	-47.45	-13.00	34.45			200.0	٧	190.0	-90.9
4199.100000	-55.90	-13.00	42.90			200.0	٧	222.0	-103.2
7616.500000	-53.39	-13.00	40.39			200.0	٧	269.0	-98.5



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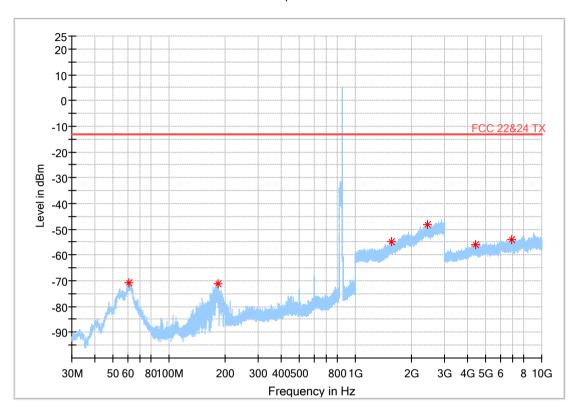
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Page: 55 of 80

7.1.1.1.3 Test Channel = HCH

7.1.1.3.1 Horizontal

Full Spectrum



Critical_Freqs

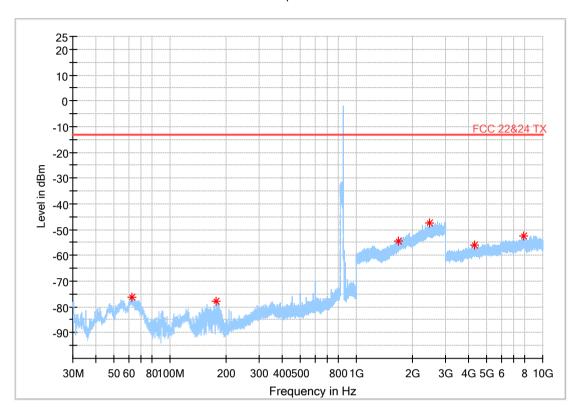
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.846000	-70.86	-13.00	57.86			200.0	Н	259.0	-107.0
183.405500	-71.30	-13.00	58.30			200.0	Н	15.0	-119.7
1565.175000	-54.84	-13.00	41.84			200.0	Н	273.0	-98.3
2443.050000	-48.21	-13.00	35.21			200.0	Н	330.0	-91.4
4405.600000	-55.89	-13.00	42.89			200.0	Н	125.0	-102.7
6938.200000	-53.94	-13.00	40.94			200.0	Н	241.0	-99.3



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7.1.1.1.3.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.543500	-76.28	-13.00	63.28			200.0	٧	0.0	-112.6
177.294500	-77.71	-13.00	64.71			200.0	٧	305.0	-122.0
1674.975000	-54.35	-13.00	41.35			200.0	٧	232.0	-97.5
2478.075000	-47.26	-13.00	34.26			200.0	٧	359.0	-91.5
4313.200000	-56.10	-13.00	43.10			200.0	٧	28.0	-102.7
7858.700000	-52.38	-13.00	39.38			200.0	٧	233.0	-97.9



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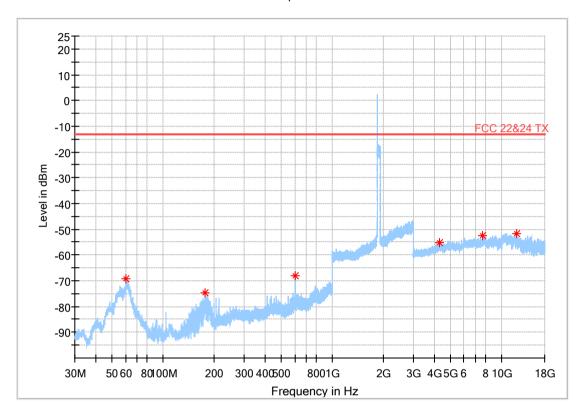
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7.1.1.2 Test Band = GSM 1900

7.1.1.2.1 Test Channel = LCH

7.1.1.2.1.1 Horizontal

Full Spectrum



Critical Fregs

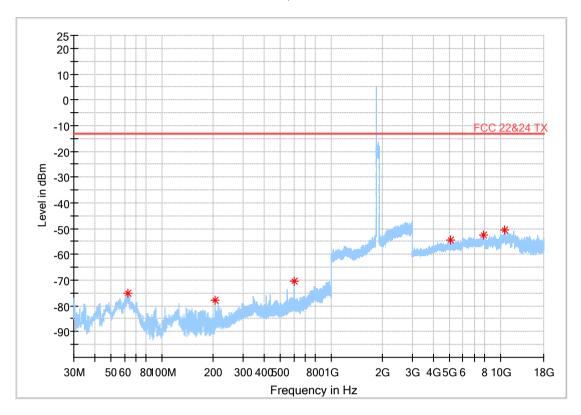
Oritioai_r	91111041_1 1040											
Frequency	MaxPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.			
(MHz)	(dBm)	(dBm)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)			
				(ms)								
60.555000	-69.15	-13.00	56.15			200.0	Н	136.0	-106.8			
176.567000	-74.80	-13.00	61.80			200.0	Н	66.0	-119.7			
600.020500	-68.06	-13.00	55.06			200.0	Н	258.0	-109.1			
4311.100000	-55.16	-13.00	42.16			200.0	Н	0.0	-102.6			
7736.550000	-52.65	-13.00	39.65			200.0	Н	0.0	-97.9			
12302.800000	-51.67	-13.00	38.67			200.0	Н	75.0	-95.5			



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7.1.1.2.1.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.301000	-75.18	-13.00	62.18			200.0	٧	321.0	-112.5
206.200500	-77.88	-13.00	64.88			200.0	٧	57.0	-119.9
599.972000	-70.24	-13.00	57.24			200.0	٧	194.0	-109.7
5039.450000	-54.47	-13.00	41.47			200.0	٧	40.0	-101.5
7934.300000	-52.48	-13.00	39.48			200.0	٧	0.0	-98.0
10596.000000	-50.42	-13.00	37.42			200.0	٧	292.0	-96.3

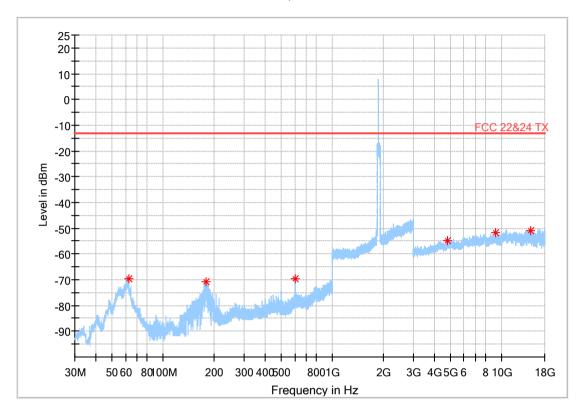


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7.1.1.2.2 Test Channel = MCH

7.1.1.2.2.1 Horizontal

Full Spectrum



Critical Fregs

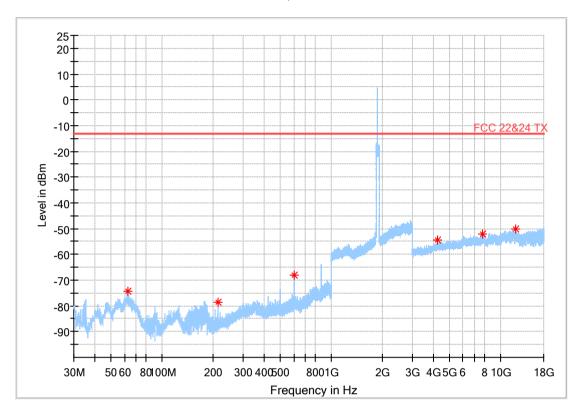
· · · · · · · · · · · · · · · · · · ·									
Frequency	MaxPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)
				(ms)					
62.252500	-69.71	-13.00	56.71			200.0	H	42.0	-107.1
178.652500	-70.61	-13.00	57.61			200.0	Н	214.0	-119.6
599.972000	-69.59	-13.00	56.59			200.0	Н	100.0	-109.1
4790.250000	-54.93	-13.00	41.93			200.0	Н	39.0	-102.1
9267.800000	-51.54	-13.00	38.54			200.0	Н	359.0	-96.9
14868.400000	-51.00	-13.00	38.00			200.0	Η	1.0	-93.3



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7.1.1.2.2.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.446500	-74.27	-13.00	61.27			200.0	٧	223.0	-112.5
212.505500	-78.63	-13.00	65.63			200.0	٧	219.0	-118.9
600.020500	-68.26	-13.00	55.26			200.0	٧	129.0	-109.7
4218.350000	-54.27	-13.00	41.27			200.0	٧	39.0	-103.2
7808.650000	-52.29	-13.00	39.29			200.0	٧	0.0	-97.8
12296.400000	-50.13	-13.00	37.13			200.0	٧	220.0	-95.2

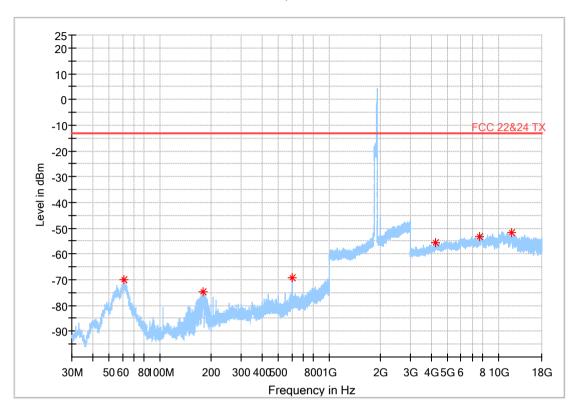


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7.1.1.2.3 Test Channel = HCH

7.1.1.2.3.1 Horizontal

Full Spectrum



Critical Fregs

· · · · · · · · · · · · · · · · · · ·									
Frequency	MaxPeak	Limit	Margin	Meas.	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dB)	Time	(kHz)	(cm)		(deg)	(dB)
				(ms)					
60.943000	-69.84	-13.00	56.84			200.0	Н	12.0	-106.9
178.216000	-74.84	-13.00	61.84			200.0	Н	27.0	-119.7
600.020500	-69.14	-13.00	56.14			200.0	Н	37.0	-109.1
4256.850000	-55.61	-13.00	42.61			200.0	Н	0.0	-102.9
7720.800000	-53.33	-13.00	40.33			200.0	Н	0.0	-98.0
12021.200000	-51.55	-13.00	38.55			200.0	Η	291.0	-95.9



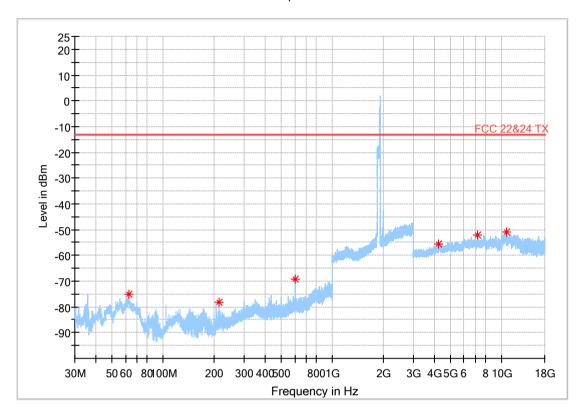
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7.1.1.2.3.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.737500	-75.19	-13.00	62.19			200.0	٧	359.0	-112.5
212.505500	-78.16	-13.00	65.16			200.0	٧	101.0	-118.9
600.020500	-69.21	-13.00	56.21			200.0	٧	187.0	-109.7
4211.350000	-55.56	-13.00	42.56			200.0	٧	145.0	-103.2
7265.100000	-52.10	-13.00	39.10			200.0	٧	0.0	-99.3
10656.800000	-50.92	-13.00	37.92			200.0	٧	1.0	-96.2



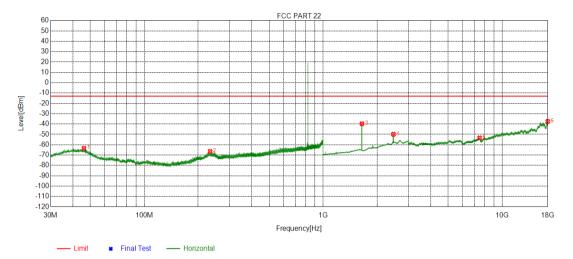
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7.1.2 Secondary Antenna

7.1.2.1 Test Band = GSM 850

7.1.2.1.1 Test Channel = LCH

7.1.2.1.1.1 Horizontal



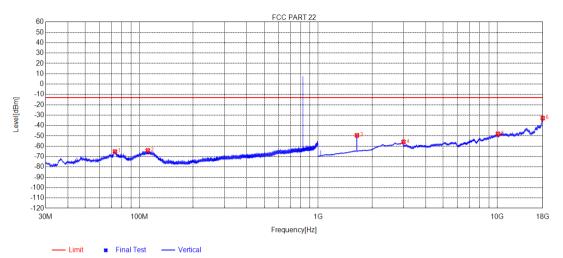
Susp	Suspected Data List										
NO	Freq.	Reading	Level	Limit	Margin	Factor	Dolovitu				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	46.1028	-69.83	-63.44	-13.00	50.44	6.39	Horizontal				
2	233.7587	-69.26	-66.45	-13.00	53.45	2.81	Horizontal				
3	1648.529	-43.73	-39.68	-13.00	26.68	4.05	Horizontal				
4	2472.694	-60.71	-49.90	-13.00	36.90	10.81	Horizontal				
5	7488.649	-77.29	-53.40	-13.00	40.40	23.89	Horizontal				
6	17997.99	-77.32	-37.45	-13.00	24.45	39.87	Horizontal				



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7.1.2.1.1.2 Vertical



Susp	Suspected Data List									
NO.	Freq.	Reading	Level	Limit	Margin	Factor	Doloritu			
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity			
1	73.3127	-66.17	-65.15	-13.00	52.15	1.02	Vertical			
2	111.7751	-70.41	-64.16	-13.00	51.16	6.25	Vertical			
3	1648.529	-54.18	-49.50	-13.00	36.50	4.68	Vertical			
4	3000.000	-69.57	-55.85	-13.00	42.85	13.72	Vertical			
5	10110.73	-77.80	-48.05	-13.00	35.05	29.75	Vertical			
6	17985.49	-77.17	-32.84	-13.00	19.84	44.33	Vertical			

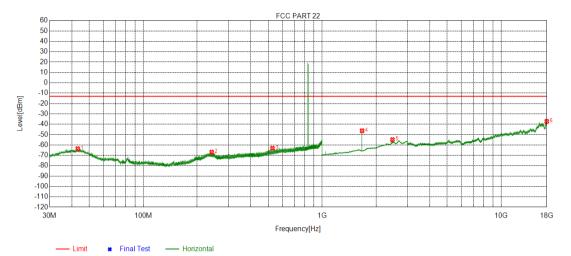


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7.1.2.1.2 Test Channel = MCH

7.1.2.1.2.1 Horizontal



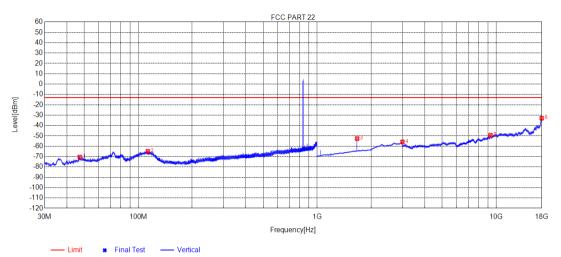
Susp	Suspected Data List										
NO.	Freq.	Reading	Level	Limit	Margin	Factor	Doloritu				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	43.0957	-70.53	-63.61	-13.00	50.61	6.92	Horizontal				
2	241.6161	-69.63	-66.88	-13.00	53.88	2.75	Horizontal				
3	528.2169	-69.03	-63.13	-13.00	50.13	5.90	Horizontal				
4	1672.934	-50.10	-46.28	-13.00	33.28	3.82	Horizontal				
5	2473.094	-65.66	-54.84	-13.00	41.84	10.82	Horizontal				
6	17998.50	-77.14	-37.26	-13.00	24.26	39.88	Horizontal				



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7.1.2.1.2.2 Vertical



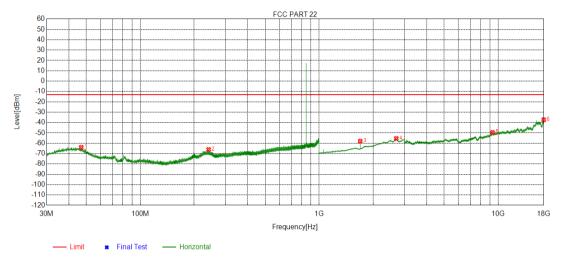
Susp	Suspected Data List									
NO.	Freq.	Reading	Level	Limit	Margin	Factor	Doloritu			
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity			
1	47.1699	-68.71	-70.52	-13.00	57.52	-1.81	Vertical			
2	113.3272	-71.02	-64.90	-13.00	51.90	6.12	Vertical			
3	1673.334	-57.38	-52.62	-13.00	39.62	4.76	Vertical			
4	2997.999	-69.58	-55.90	-13.00	42.90	13.68	Vertical			
5	9311.710	-77.98	-49.43	-13.00	36.43	28.55	Vertical			
6	17986.99	-77.28	-32.92	-13.00	19.92	44.36	Vertical			



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7.1.2.1.3 Test Channel = HCH

7.1.2.1.3.1 Horizontal



Susp	Suspected Data List										
NO	Freq.	Reading	Level	Limit	Margin	Factor	Dolority				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	46.8788	-69.98	-64.03	-13.00	51.03	5.95	Horizontal				
2	241.3736	-68.85	-66.09	-13.00	53.09	2.76	Horizontal				
3	1697.739	-61.60	-58.03	-13.00	45.03	3.57	Horizontal				
4	2699.539	-68.35	-55.43	-13.00	42.43	12.92	Horizontal				
5	9321.710	-77.94	-49.64	-13.00	36.64	28.30	Horizontal				
6	17985.49	-76.91	-37.32	-13.00	24.32	39.59	Horizontal				



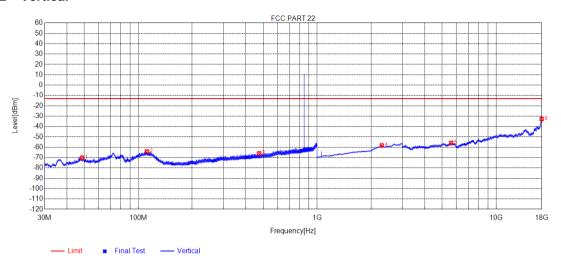
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7.1.2.1.3.2 Vertical



Susp	Suspected Data List										
NO	Freq.	Reading	Level	Limit	Margin	Factor	Dolovitu				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	48.6249	-68.65	-70.14	-13.00	57.14	-1.49	Vertical				
2	111.9691	-70.37	-64.13	-13.00	51.13	6.24	Vertical				
3	474.7672	-70.07	-65.90	-13.00	52.90	4.17	Vertical				
4	2297.859	-68.49	-58.26	-13.00	45.26	10.23	Vertical				
5	5612.087	-77.18	-55.81	-13.00	42.81	21.37	Vertical				
6	17987.49	-77.00	-32.63	-13.00	19.63	44.37	Vertical				



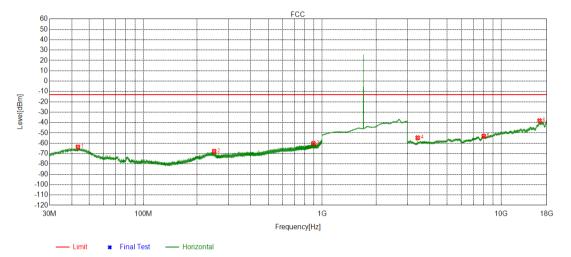
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7.1.2.2 Test Band = GSM 1900

7.1.2.2.1 Test Channel = LCH

7.1.2.2.1.1 Horizontal



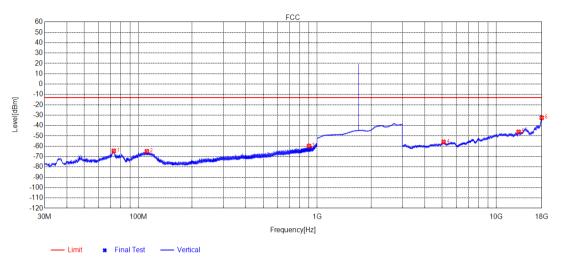
Susp	Suspected Data List										
NO	Freq.	Reading	Level	Limit	Margin	Factor	Doloritu				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	43.1927	-70.55	-63.62	-13.00	50.62	6.93	Horizontal				
2	249.3765	-70.38	-67.80	-13.00	54.80	2.58	Horizontal				
3	894.2647	-71.93	-60.13	-13.00	47.13	11.80	Horizontal				
4	3420.514	-71.83	-54.74	-13.00	41.74	17.09	Horizontal				
5	7996.666	-77.81	-53.20	-13.00	40.20	24.61	Horizontal				
6	16406.44	-75.74	-38.32	-13.00	25.32	37.42	Horizontal				



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7.1.2.2.1.2 Vertical



Susp	Suspected Data List									
NO.	Freq.	Reading	Level	Limit	Margin	Factor	Doloritu			
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity			
1	73.0702	-65.61	-64.55	-13.00	51.55	1.06	Vertical			
2	111.8721	-71.21	-64.96	-13.00	51.96	6.25	Vertical			
3	901.5401	-71.21	-59.85	-13.00	46.85	11.36	Vertical			
4	5089.569	-77.17	-55.94	-13.00	42.94	21.23	Vertical			
5	13367.34	-78.35	-46.19	-13.00	33.19	32.16	Vertical			
6	17989.49	-76.93	-32.51	-13.00	19.51	44.42	Vertical			

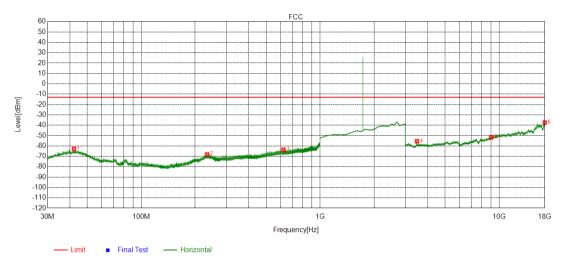


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7.1.2.2.2 Test Channel = MCH

7.1.2.2.2.1 Horizontal



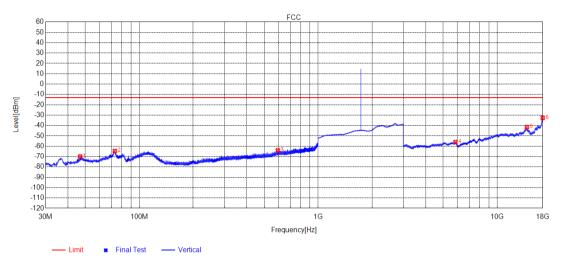
Susp	Suspected Data List										
NO	Freq.	Reading	Level	Limit	Margin	Factor	Dolority				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	42.1741	-69.71	-62.84	-13.00	49.84	6.87	Horizontal				
2	233.7587	-71.02	-68.21	-13.00	55.21	2.81	Horizontal				
3	623.5727	-71.37	-63.62	-13.00	50.62	7.75	Horizontal				
4	3480.016	-73.26	-55.38	-13.00	42.38	17.88	Horizontal				
5	9041.701	-77.94	-51.64	-13.00	38.64	26.30	Horizontal				
6	17996.49	-77.33	-37.50	-13.00	24.50	39.83	Horizontal				



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7.1.2.2.2.2 Vertical



Susp	Suspected Data List										
NO.	Freq.	Reading	Level	Limit	Margin	Factor	Doloritu				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	46.8303	-68.10	-69.98	-13.00	56.98	-1.88	Vertical				
2	73.2157	-65.71	-64.68	-13.00	51.68	1.03	Vertical				
3	595.6353	-71.45	-64.03	-13.00	51.03	7.42	Vertical				
4	5851.095	-77.67	-56.05	-13.00	43.05	21.62	Vertical				
5	14667.38	-77.26	-41.52	-13.00	28.52	35.74	Vertical				
6	17995.99	-77.14	-32.58	-13.00	19.58	44.56	Vertical				

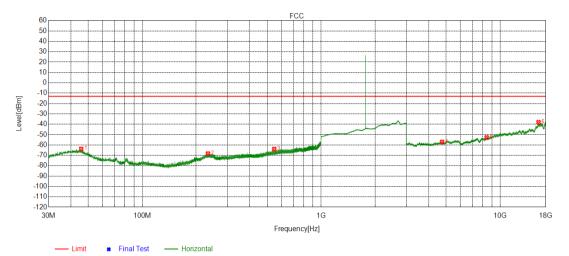


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7.1.2.2.3 Test Channel = HCH

7.1.2.2.3.1 Horizontal



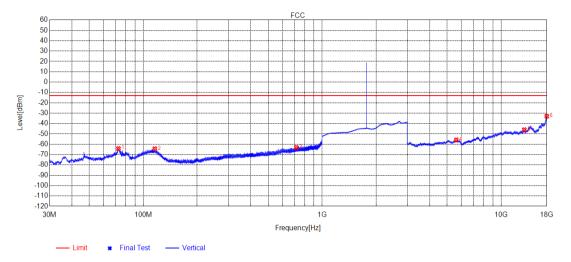
Susp	Suspected Data List										
NO.	Freq.	Reading	Level	Limit	Margin	Factor	Dolority (
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	45.6663	-70.49	-63.85	-13.00	50.85	6.64	Horizontal				
2	233.1282	-71.12	-68.30	-13.00	55.30	2.82	Horizontal				
3	547.2299	-70.29	-63.96	-13.00	50.96	6.33	Horizontal				
4	4745.058	-77.08	-57.09	-13.00	44.09	19.99	Horizontal				
5	8413.180	-76.77	-52.75	-13.00	39.75	24.02	Horizontal				
6	16404.44	-75.59	-38.14	-13.00	25.14	37.45	Horizontal				



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7.1.2.2.3.2 Vertical



Susp	Suspected Data List										
NO.	Freq.	Reading	Level	Limit	Margin	Factor	Doloritu				
NO.	[MHz]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	Polarity				
1	72.8276	-65.36	-64.26	-13.00	51.26	1.10	Vertical				
2	116.2373	-70.30	-64.44	-13.00	51.44	5.86	Vertical				
3	717.8614	-71.89	-63.13	-13.00	50.13	8.76	Vertical				
4	5619.087	-77.23	-55.88	-13.00	42.88	21.35	Vertical				
5	13490.34	-78.93	-46.07	-13.00	33.07	32.86	Vertical				
6	17998.50	-77.60	-32.98	-13.00	19.98	44.62	Vertical				

REMARK:

- 1) 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.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			TN	VL	-2.78	-0.003369	PASS
		LCH		VN	-3.87	-0.004701	PASS
				VH	-2.32 -0.002820	PASS	
				VL	/L -1.45 -0.001	-0.001737	PASS
	GSM/TM1	MCH	TN	VN	-2.78	-0.003319	PASS
				VH	-4.00	-0.004785	PASS
		НСН	TN	VL	-2.84	-0.003347	PASS
				VN	-3.49	-0.004108	PASS
GSM				VH	-5.49 -0.006466	PASS	
850				VL	VL 4.16 0.005053	PASS	
		LCH	TN	VN	5.71	0.006934	PASS
				VH	5.23	0.006346	PASS
		МСН	TN	VL	3.16	0.003782	PASS
	GSM/TM2			VN	1.68	0.002007	PASS
				VH	1.87	0.002238	PASS
				VL	-0.06	-0.000076	PASS
		HCH	TN	VN	1.26	0.001483	PASS
				VH	1.32	0.001560	PASS





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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			TN	VL	3.78	0.002042	PASS
		LCH		VN	5.10	0.002757	PASS
				VH	3.20	0.001728	PASS
				VL	2.87 0.001528	PASS	
	GSM/TM1	MCH	MCH TN	VN	2.65	0.001408	PASS
				VH	6.97	0.003709	PASS
		НСН		VL	-0.16	-0.000085	PASS
			TN	VN	-0.13	-0.000068	PASS
GSM				VH	2.87 0.001505	0.001505	PASS
1900				VL	-1.84 -0.000995 6.13 0.003315	PASS	
		LCH	TN	VN		PASS	
				VH	1.19	0.000646	PASS
				VL	-1.36	-0.000721	PASS
	GSM/TM2	MCH	TN	VN	3.58	0.001906	PASS
				VH	0.68	0.000361	PASS
			HCH TN	VL	-6.75	-0.003533	PASS
		HCH		VN	-8.01	-0.004193	PASS
				VH	-5.36	-0.002806	PASS



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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-5.97	-0.007247	PASS
				-20	-4.62	-0.005602	PASS
				-10	-3.81	-0.004622	PASS
				0	-4.97	-0.006033	PASS
		LCH	VN	10	-2.74	-0.003330	PASS
				20	-1.90	-0.002311	PASS
				30	-2.00	-0.002429	PASS
				40	-4.13	-0.005014	PASS
				50	-3.36	-0.004074	PASS
			VN	-30	-3.13	-0.003743	PASS
	GSM/TM1	MCH		-20	-0.84	-0.001003	PASS
				-10	1.00	0.001196	PASS
GSM				0	0.06	0.000077	PASS
850				10	-4.26	-0.005094	PASS
850				20	-3.55	-0.004245	PASS
				30	-2.55	-0.003049	PASS
				40	-2.26	-0.002701	PASS
				50	-3.45	-0.004129	PASS
		нсн		-30	-3.84	-0.004526	PASS
				-20	-0.45	-0.000533	PASS
				-10	-2.62	-0.003081	PASS
				0	-5.23	-0.006162	PASS
			VN	10	-5.62	-0.006618	PASS
				20	-1.81	-0.002130	PASS
				30	1.94	0.002282	PASS
				40	-3.10	-0.003652	PASS
				50	-1.78	-0.002092	PASS





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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	4.33	0.005249	PASS
				-20	3.00	0.003643	PASS
				-10	5.20	0.006307	PASS
				0	4.65	0.005641	PASS
		LCH	VN	10	2.74	0.003330	PASS
				20	3.52	0.004270	PASS
				30	5.10	0.006189	PASS
				40	3.16	0.003839	PASS
				50	0.94	0.001136	PASS
		МСН	VN	-30	2.29	0.002740	PASS
	GSM/TM2			-20	4.55	0.005441	PASS
				-10	0.52	0.000617	PASS
GSM				0	1.49	0.001775	PASS
850				10	2.78	0.003319	PASS
630				20	4.04	0.004824	PASS
				30	1.16	0.001389	PASS
				40	1.07	0.001274	PASS
				50	1.49	0.001775	PASS
		нсн		-30	1.36	0.001598	PASS
				-20	3.94	0.004641	PASS
				-10	-1.13	-0.001331	PASS
				0	-0.65	-0.000761	PASS
			VN	10	0.29	0.000342	PASS
				20	-0.03	-0.000038	PASS
				30	-0.42	-0.000494	PASS
				40	0.48	0.000571	PASS
				50	1.23	0.001445	PASS





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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	3.33	0.001797	PASS
				-20	5.00	0.002705	PASS
				-10	2.16	0.001169	PASS
				0	3.84	0.002077	PASS
		LCH	VN	10	0.97	0.000523	PASS
				20	3.68	0.001989	PASS
				30	3.45	0.001867	PASS
				40	3.10	0.001675	PASS
				50	4.46	0.002408	PASS
	GSM/TM1	МСН	VN	-30	5.36	0.002851	PASS
				-20	2.00	0.001065	PASS
				-10	-0.10	-0.000052	PASS
GSM				0	4.20	0.002233	PASS
1900				10	2.13	0.001133	PASS
1900				20	3.13	0.001666	PASS
				30	3.33	0.001769	PASS
				40	2.45	0.001305	PASS
				50	0.58	0.000309	PASS
		нсн		-30	0.10	0.000051	PASS
				-20	-1.10	-0.000575	PASS
				-10	-1.26	-0.000659	PASS
				0	-0.03	-0.000017	PASS
			VN	10	-5.91	-0.003094	PASS
				20	-1.81	-0.000947	PASS
				30	-3.16	-0.001657	PASS
				40	-3.62	-0.001893	PASS
				50	1.61	0.000845	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	0.87	0.000471	PASS
				-20	1.26	0.000681	PASS
				-10	0.90	0.000489	PASS
				0	5.91	0.003193	PASS
		LCH	VN	10	-1.19	-0.000646	PASS
				20	-0.84	-0.000454	PASS
				30	-2.03	-0.001099	PASS
				40	-1.23	-0.000663	PASS
				50	1.68	0.000907	PASS
	GSM/TM2	МСН	VN	-30	2.52	0.001340	PASS
				-20	3.20	0.001700	PASS
				-10	0.61	0.000326	PASS
GSM				0	0.32	0.000172	PASS
1900				10	2.68	0.001425	PASS
				20	0.42	0.000223	PASS
				30	-1.55	-0.000824	PASS
				40	-3.16	-0.001683	PASS
				50	-2.52	-0.001340	PASS
		нсн	VN	-30	-8.78	-0.004598	PASS
				-20	-13.75	-0.007202	PASS
				-10	-8.52	-0.004463	PASS
				0	-7.55	-0.003956	PASS
				10	-7.30	-0.003821	PASS
				20	-9.75	-0.005105	PASS
				30	-6.62	-0.003466	PASS
				40	-4.42	-0.002316	PASS
				50	-6.17	-0.003229	PASS

The End

