

Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.00	H	131	236	-69.63	1.10	38.47	-56.78	-13.00	-43.78
5580.00	H	326	309	-70.73	4.26	40.53	-54.73	-13.00	-41.73
7440.00	H	-	-	-79.34	9.31	36.97	-58.29	-13.00	-45.29
9300.00	H	-	-	-79.75	11.83	39.08	-56.18	-13.00	-43.18
11160.00	H	-	-	-80.61	12.44	38.83	-56.42	-13.00	-43.42

Table 7-24. Radiated Spurious Data (LTE Band 25/2 – Low Channel - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.00	H	397	239	-75.77	0.99	32.22	-63.04	-13.00	-50.04
5647.50	H	337	327	-67.83	4.53	43.70	-51.56	-13.00	-38.56
7530.00	H	-	-	-79.23	9.56	37.33	-57.92	-13.00	-44.92
9412.50	H	-	-	-80.64	12.18	38.54	-56.71	-13.00	-43.71
11295.00	H	-	-	-80.73	12.85	39.12	-56.14	-13.00	-43.14

Table 7-25. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant1)

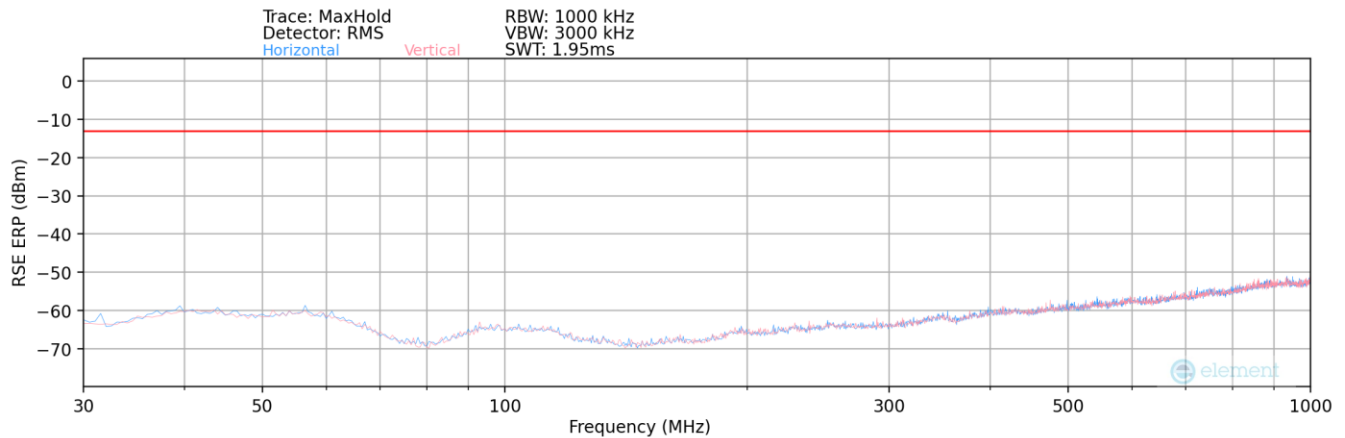
Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	H	314	305	-70.52	0.96	37.44	-57.82	-13.00	-44.82
5715.00	H	211	346	-70.96	4.47	40.51	-54.75	-13.00	-41.75
7620.00	H	-	-	-79.71	9.58	36.87	-58.38	-13.00	-45.38
9525.00	H	-	-	-80.83	11.91	38.08	-57.18	-13.00	-44.18
11430.00	H	-	-	-80.95	13.06	39.11	-56.14	-13.00	-43.14

Table 7-26. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant1)

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LTE Band 25/2 – Ant2

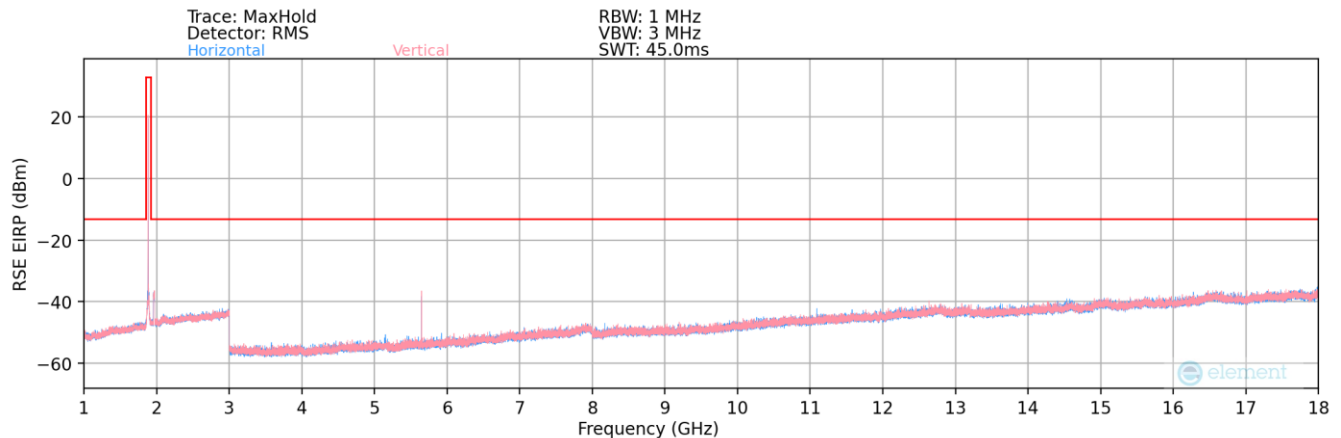


Plot 7-93. Radiated Spurious Plot – Below 1GHz(LTE Band 25/2 - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
550.00	H	-	-	-76.20	-5.69	25.11	-72.30	-13.00	-59.30

Table 7-27. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant2)



Plot 7-94. Radiated Spurious Plot – Above 1GHz (LTE Band 25/2 - Ant2)

FCC ID: A3LSMA576B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.00	H	112	258	-75.18	5.46	37.28	-57.98	-13.00	-44.98
5580.00	H	108	261	-62.92	8.50	52.58	-42.68	-13.00	-29.68
7440.00	H	-	-	-80.60	12.70	39.10	-56.15	-13.00	-43.15
9300.00	H	-	-	-80.55	14.62	41.07	-54.19	-13.00	-41.19
11160.00	H	-	-	-81.37	17.75	43.38	-51.88	-13.00	-38.88

Table 7-28. Radiated Spurious Data (LTE Band 25/2 – Low Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.00	H	146	301	-76.71	5.68	35.97	-59.29	-13.00	-46.29
5647.50	H	120	259	-63.23	8.29	52.06	-43.20	-13.00	-30.20
7530.00	H	-	-	-80.85	13.00	39.15	-56.11	-13.00	-43.11
9412.50	H	-	-	-79.63	15.53	42.90	-52.35	-13.00	-39.35
11295.00	H	-	-	-81.20	18.25	44.05	-51.21	-13.00	-38.21

Table 7-29. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	H	152	237	-78.20	5.87	34.67	-60.59	-13.00	-47.59
5715.00	H	118	273	-66.67	8.47	48.80	-46.45	-13.00	-33.45
7620.00	H	-	-	-80.12	12.67	39.55	-55.71	-13.00	-42.71
9525.00	H	108	8	-75.59	14.64	46.05	-49.21	-13.00	-36.21
11430.00	H	-	-	-81.37	18.17	43.80	-51.46	-13.00	-38.46
13335.00	H	-	-	-81.11	20.63	46.52	-48.74	-13.00	-35.74
15240.00	H	-	-	-81.84	22.53	47.69	-47.57	-13.00	-34.57

Table 7-30. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant2)

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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

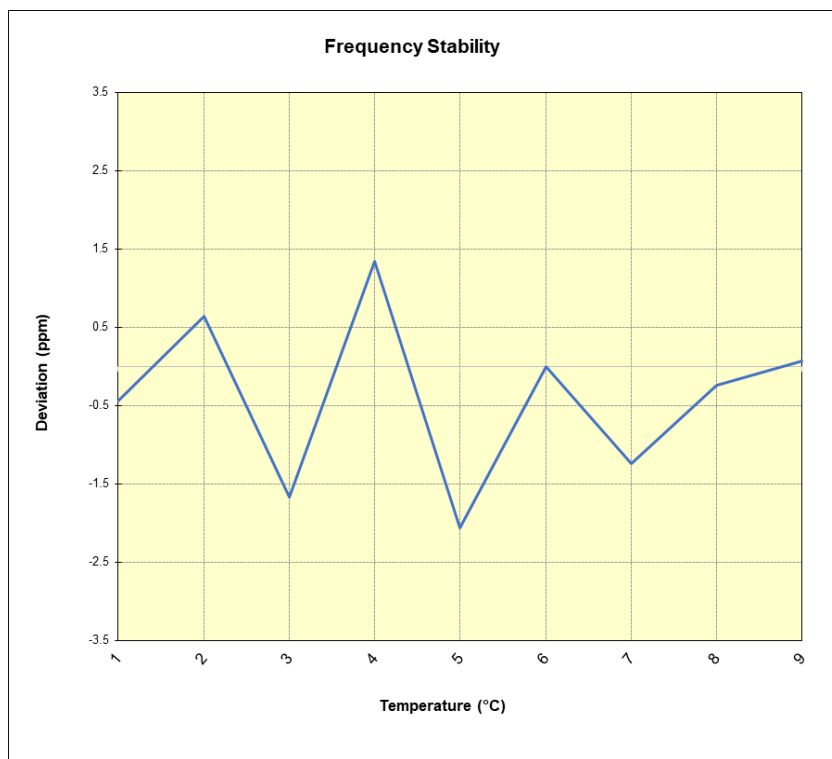
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FCC ID: A3LSMA576B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 25/2

LTE Band 25/2					
		Operating Frequency (Hz):		1,882,500,000	
		Ref. Voltage (VDC):		4.446	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,882,594,674	-829	-0.0000440
		- 20	1,882,596,710	1,207	0.0000641
		- 10	1,882,592,350	-3,153	-0.0001675
		0	1,882,598,028	2,525	0.0001341
		+ 10	1,882,591,628	-3,875	-0.0002058
		+ 20 (Ref)	1,882,595,503	0	0.0000000
		+ 30	1,882,593,176	-2,327	-0.0001236
		+ 40	1,882,595,044	-459	-0.0000244
		+ 50	1,882,595,622	119	0.0000063
Battery Endpoint	3.648	+ 20	1,882,597,446	1,943	0.0001032

Table 7-31. LTE Band 25/2 Frequency Stability Data



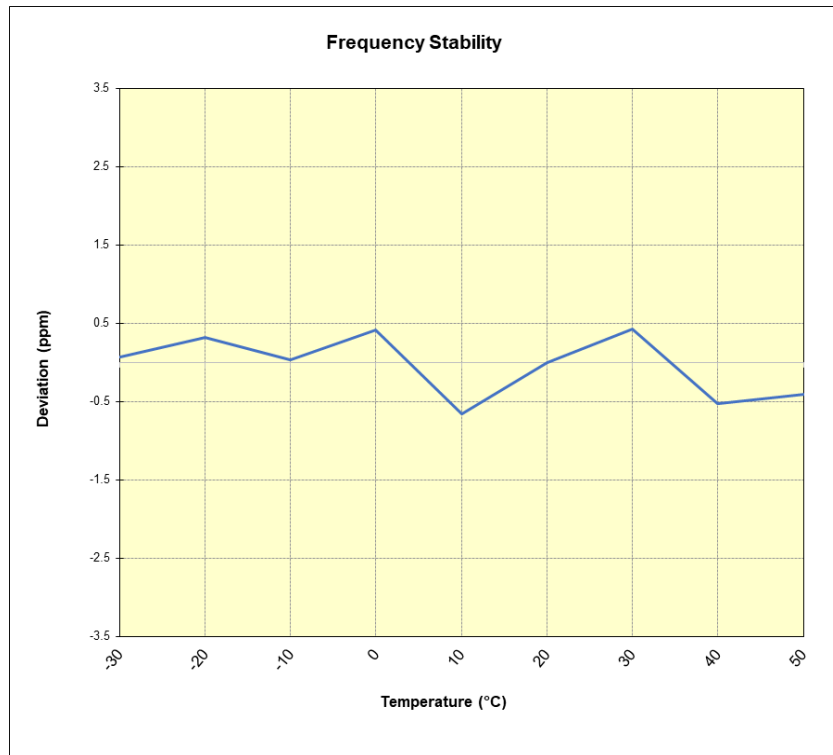
Plot 7-95. LTE Band 25/2 Frequency Stability Chart

FCC ID: A3LSMA576B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS PCS

GSM/GPRS PCS					
		Operating Frequency (Hz):		1,880,000,000	
		Ref. Voltage (VDC):		4.446	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,880,000,644	122	0.0000065
		- 20	1,880,001,118	596	0.0000317
		- 10	1,880,000,594	72	0.0000038
		0	1,880,001,306	784	0.0000417
		+ 10	1,879,999,276	-1,246	-0.0000663
		+ 20 (Ref)	1,880,000,522	0	0.0000000
		+ 30	1,880,001,324	802	0.0000427
		+ 40	1,879,999,538	-984	-0.0000523
		+ 50	1,879,999,750	-772	-0.0000411
Battery Endpoint	3.648	+ 20	1,879,999,685	-837	-0.0000445

Table 7-32. GSM/GPRS PCS Frequency Stability Data



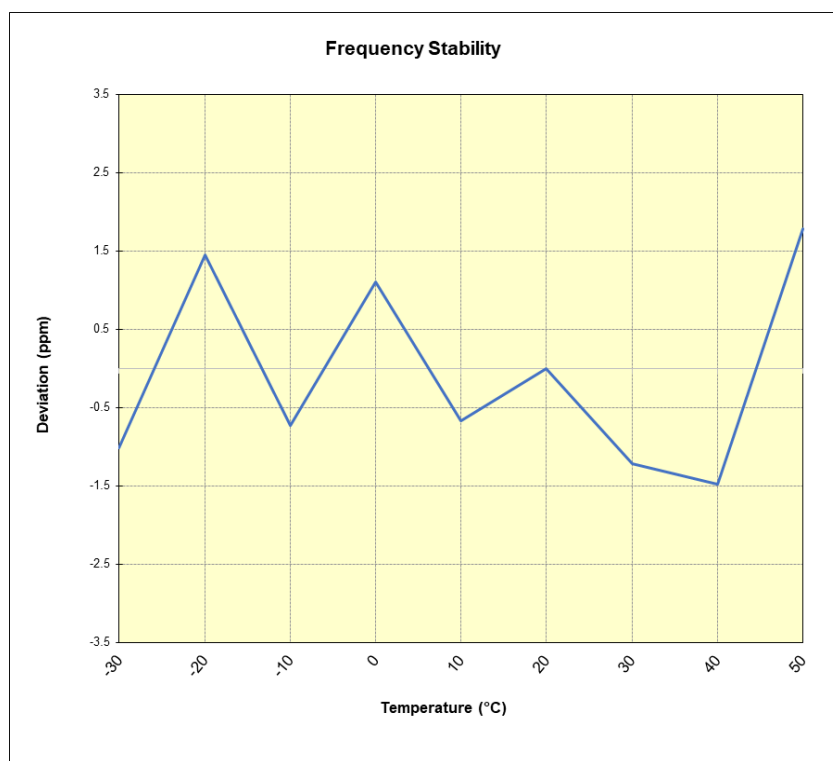
Plot 7-96. GSM/GPRS PCS Frequency Stability Chart

FCC ID: A3LSMA576B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA PCS

WCDMA PCS					
			Operating Frequency (Hz):	1,880,000,000	
			Ref. Voltage (VDC):	4.446	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,879,996,812	-1,908	-0.0001015
		- 20	1,880,001,444	2,724	0.0001449
		- 10	1,879,997,341	-1,379	-0.0000734
		0	1,880,000,789	2,069	0.0001101
		+ 10	1,879,997,466	-1,254	-0.0000667
		+ 20 (Ref)	1,879,998,720	0	0.0000000
		+ 30	1,879,996,436	-2,284	-0.0001215
		+ 40	1,879,995,938	-2,782	-0.0001480
		+ 50	1,880,002,070	3,350	0.0001782
Battery Endpoint	3.648	+ 20	1,879,995,203	-3,517	-0.0001871

Table 7-33. WCDMA PCS Frequency Stability Data



Plot 7-97. WCDMA PCS Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA576B** complies with all the requirements of Part 24 of the FCC rules. **FCC ID: A3LSMA576U** (Model: SM-A576U1) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMA576B**

FCC ID: A3LSMA576B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

Notes

- Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SM-A576B/DS

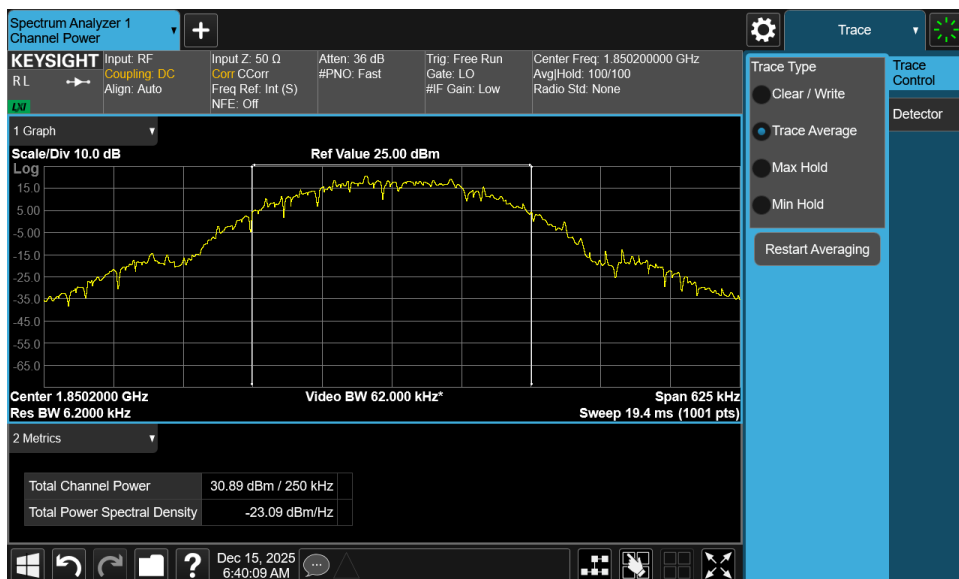
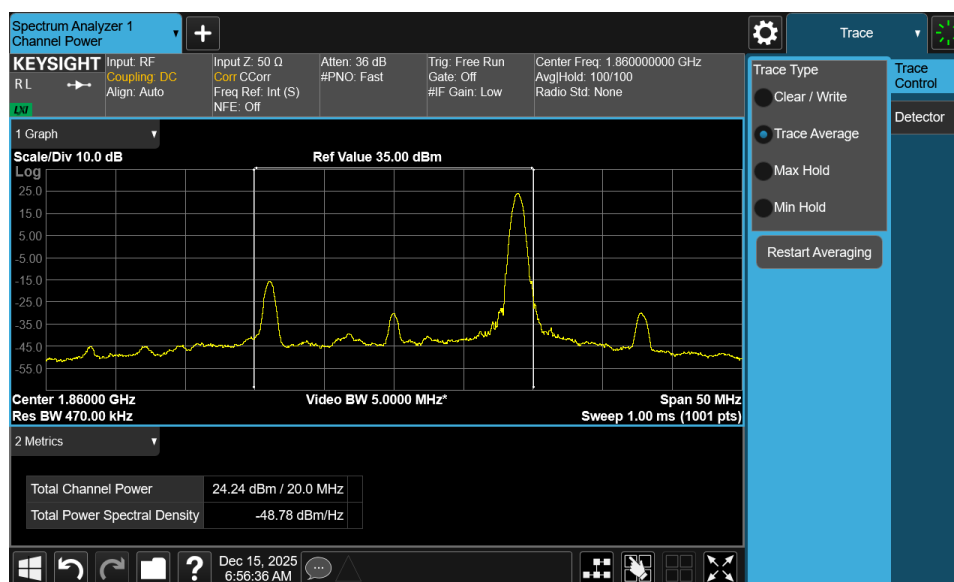
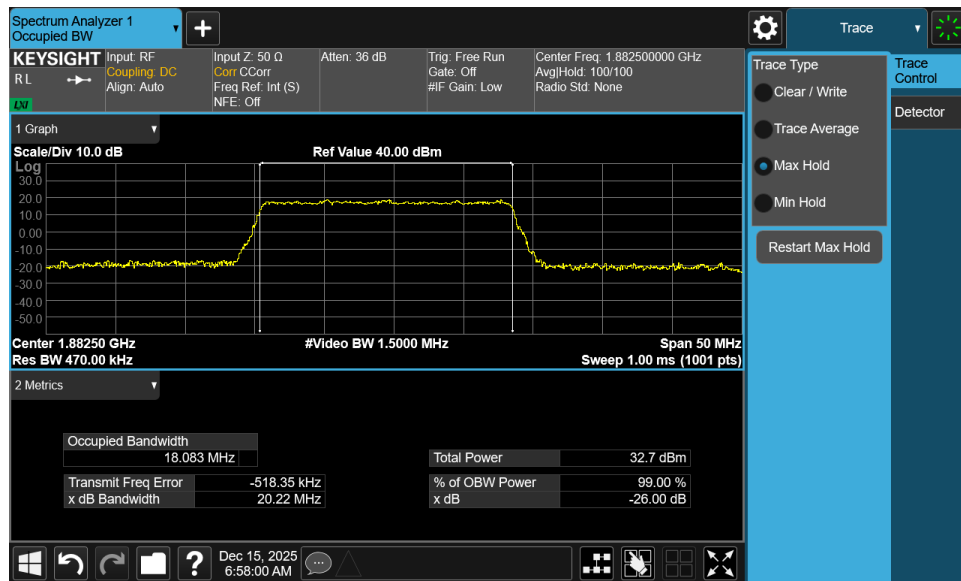


Table 9-1. Conducted Output Power Measurements (Spot-check) – GPRS1900

FCC ID: A3LSMA576B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 9-2. Occupied Bandwidth (Spot-check) – LTE B25/2

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Radiated Spot-Checks – SM-A576B/DS

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GSM1900	V	205	208	25.71	2.62	28.33	0.682	33.01	-4.68

Table 9-3. EIRP Measurements (Spot-check) – GPRS1900

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5640.00	H	155	124	-66.35	8.23	48.88	-46.38	-13.00	-33.38

Table 9-4. Radiated Spurious Measurements (Spot-check) – GPRS1900

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.00	V	Y	129	334	2.53	1 / 0	20.24	22.77	0.189	33.01	-10.24

Table 9-5. EIRP Measurements (Spot-check) – LTE B25/2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5580.00	H	108	300	-61.65	8.50	53.85	-41.41	-13.00	-28.41

Table 9-6. Radiated Spurious Measurements (Spot-check) – LTE B25/2

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-A576U1	Variant Model: SM-A576B/DS	Deviation (dB)	Max Deviation (dB)	Pass/Fail
24	Conducted Output Power	Low Ch. 512, Ant A	dBm	N/A	30.13	30.89	0.76	1	PASS
	Occupied Bandwidth	Mid Ch. 661, Ant A	kHz	N/A	244.71	243.81	-0.90	N/A	PASS
	EIRP	Low Ch. 512, Ant A	dBm	33.01	29.20	28.33	-0.87	3	PASS
	RSE	Mid Ch. 661, 5640MHz, Ant A	dBm	-13	-45.36	-46.38	-1.02	3	PASS

Table 9-7. Summary of Spot-checks – GPRS1900

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-A576U1	Variant Model: SM-A576B/DS	Deviation (dB)	Max Deviation (dB)	Pass/Fail
24	Conducted Output Power	Low Ch. 26140, 20MHz, QPSK, Ant A	dBm	N/A	23.75	24.24	0.49	1	PASS
	Occupied Bandwidth	Mid Ch. 26365, 20MHz, QPSK, Ant A	MHz	N/A	18.07	18.08	0.01	N/A	PASS
	EIRP	Low Ch. 26140, 20MHz, QPSK, Ant A	dBm	33.01	24.53	22.77	-1.76	3	PASS
	RSE	Low Ch. 26140, 20MHz, QPSK, 5580MHz, Ant F	dBm	-13	-42.68	-41.41	1.27	3	PASS

Table 9-8. Summary of Spot-checks – LTE B25/2

- END OF TEST REPORT -

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