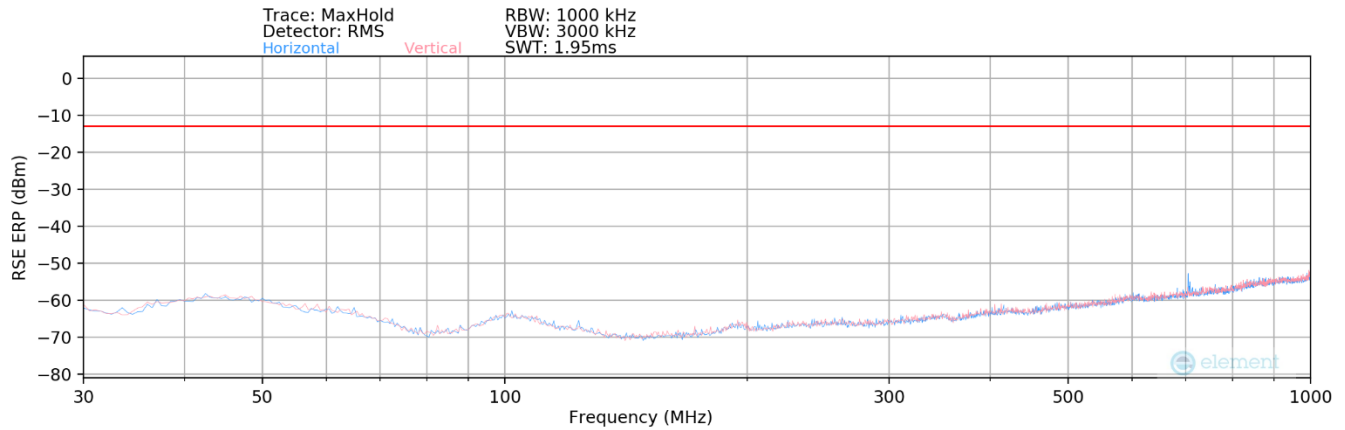


LTE Band 25/2 – Ant1

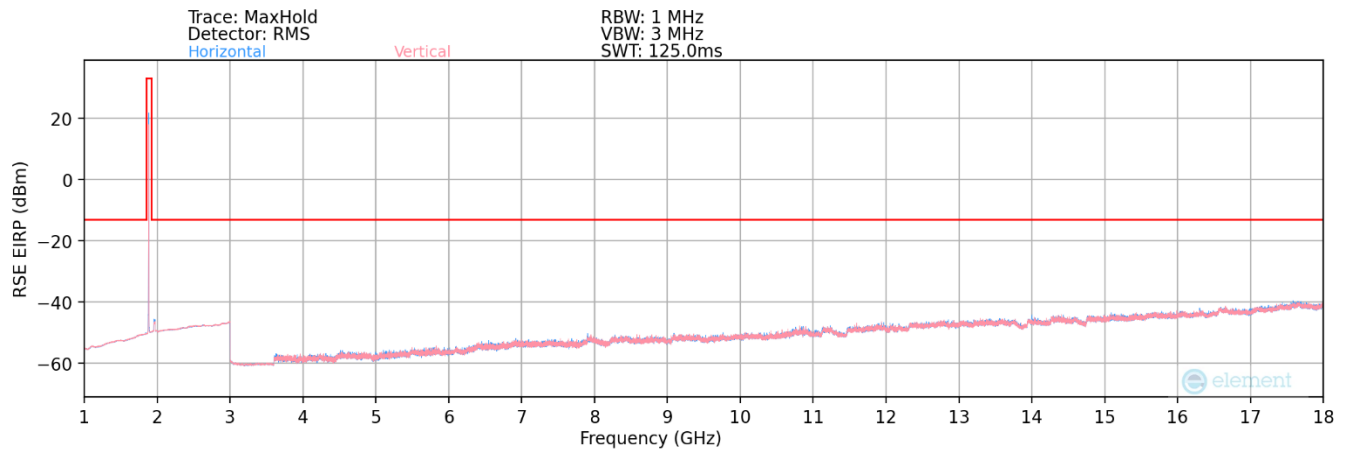


Plot 7-179. Radiated Spurious Plot (LTE Band 25/2 - Ant1)

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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
250.00	H	-	-	-72.49	-12.06	22.45	-74.96	-13.00	-61.96
500.00	H	-	-	-75.24	-6.84	24.92	-72.48	-13.00	-59.48
700.00	H	329	133	-65.69	-3.56	37.75	-59.66	-13.00	-46.66
900.00	H	-	-	-77.32	-0.69	28.99	-68.42	-13.00	-55.42

Table 7-30. Radiated Spurious Data (LTE Band 25/2 – Ant1)



Plot 7-180. Radiated Spurious Plot (LTE Band 25/2 - Ant1)

FCC ID: A3LSMF966B	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	-	-	-76.34	5.63	36.29	-58.96	-13.00	-45.96
5580.00	H	-	-	-76.65	8.57	38.92	-56.34	-13.00	-43.34
7440.00	H	-	-	-77.67	12.79	42.12	-53.13	-13.00	-40.13

Table 7-31. 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	-	-	-76.39	5.77	36.38	-58.88	-13.00	-45.88
5647.50	H	-	-	-76.78	8.50	38.72	-56.54	-13.00	-43.54
7530.00	H	-	-	-77.68	13.20	42.52	-52.74	-13.00	-39.74

Table 7-32. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant1)

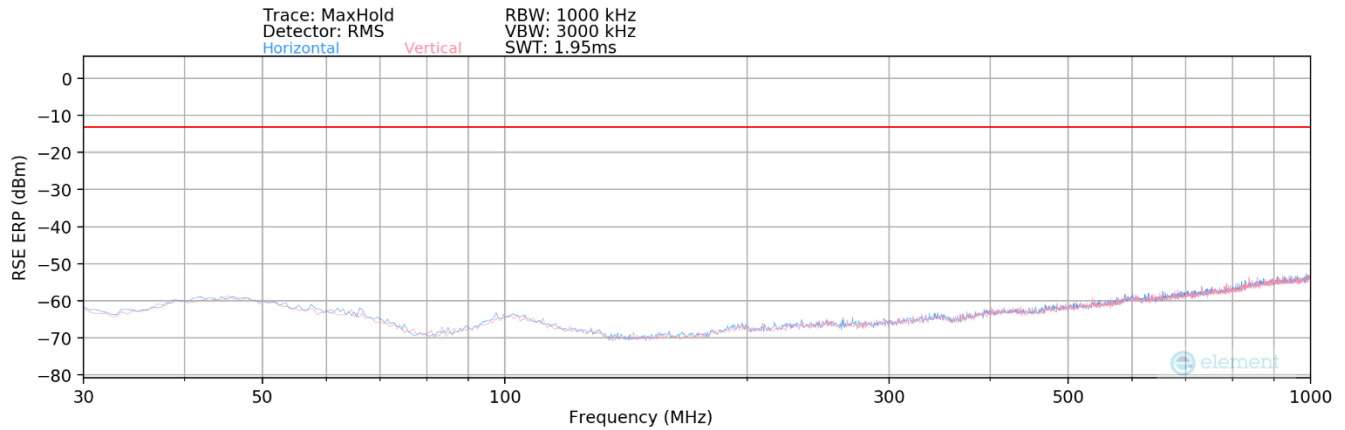
Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

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	-	-	-76.07	5.99	36.92	-58.33	-13.00	-45.33
5715.00	H	-	-	-76.49	8.63	39.14	-56.12	-13.00	-43.12
7620.00	H	-	-	-77.61	12.85	42.24	-53.02	-13.00	-40.02

Table 7-33. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant1)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2 – Ant1

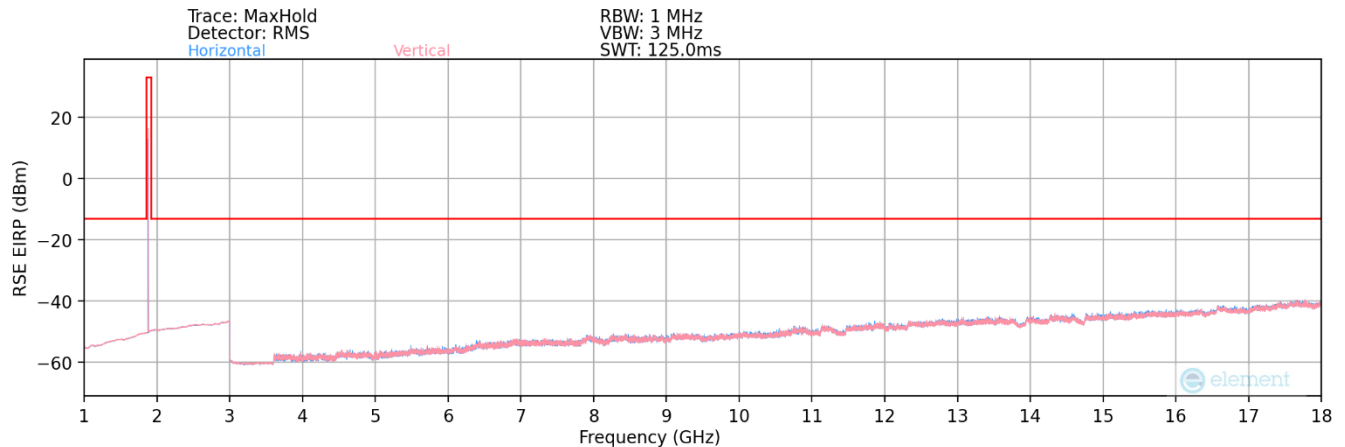


Plot 7-181. Radiated Spurious Plot (NR Band n25/2 - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108

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]
700.00	H	-	-	-76.00	-3.56	27.44	-69.97	-13.00	-56.97

Table 7-34. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant1)



Plot 7-182. Radiated Spurious Plot (NR Band n25/2 - Ant1)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	1870
RB / Offset:	1 / 108

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]
3740.00	H	-	-	-76.23	5.66	36.43	-58.83	-13.00	-45.83
5610.00	H	-	-	-76.78	8.31	38.53	-56.73	-13.00	-43.73
7480.00	H	-	-	-77.52	12.84	42.32	-52.94	-13.00	-39.94

Table 7-35. Radiated Spurious Data (NR Band n25/2 – Low Channel - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108

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	-	-	-76.53	5.77	36.24	-59.02	-13.00	-46.02
5647.50	H	-	-	-76.56	8.50	38.94	-56.32	-13.00	-43.32
7530.00	H	-	-	-77.99	13.20	42.21	-53.05	-13.00	-40.05

Table 7-36. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant1)

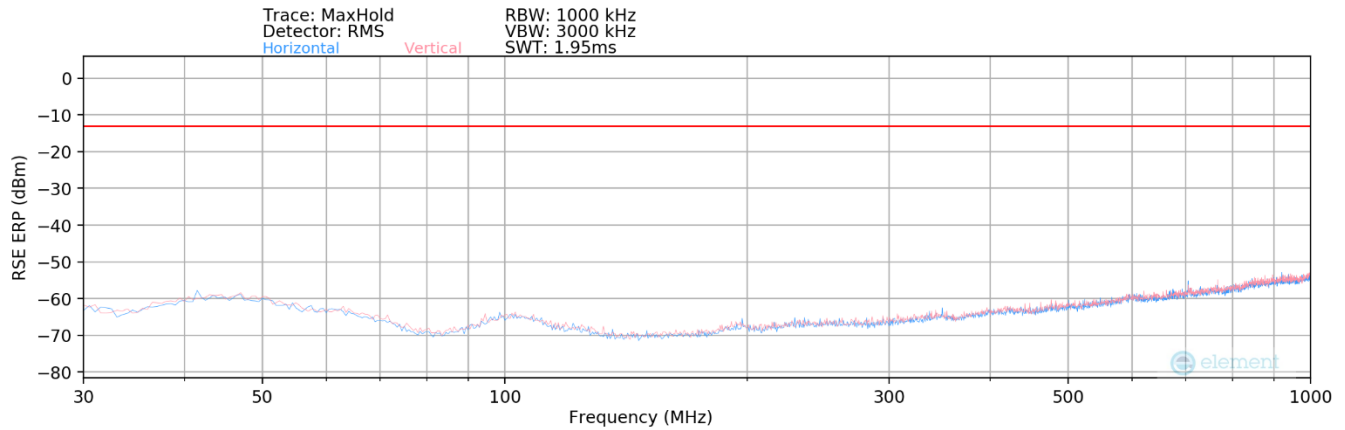
Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 108

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]
3790.00	H	-	-	-76.38	5.95	36.57	-58.68	-13.00	-45.68
5685.00	H	-	-	-76.62	8.43	38.81	-56.45	-13.00	-43.45
7580.00	H	-	-	-77.56	13.06	42.50	-52.75	-13.00	-39.75

Table 7-37. Radiated Spurious Data (NR Band n25/2 – High Channel - Ant1)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 25/2 – Ant2

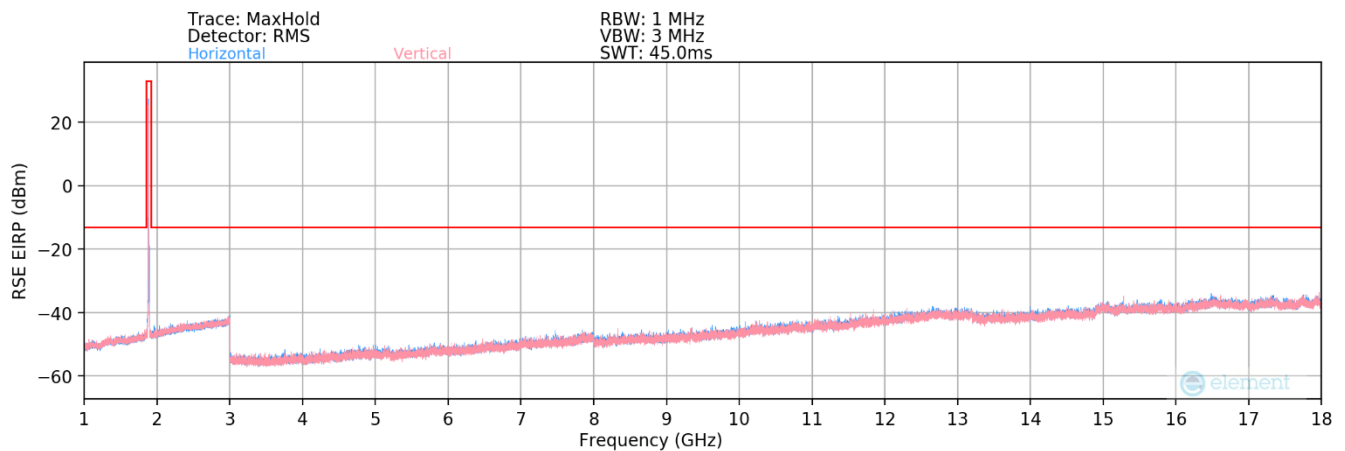


Plot 7-183. Radiated Spurious Plot (LTE Band 25/2 – Ant2)

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]
250.00	H	-	-	-72.37	-12.06	22.57	-74.84	-13.00	-61.84
500.00	H	-	-	-74.42	-6.84	25.74	-71.66	-13.00	-58.66
700.00	H	139	55	-66.11	-3.56	37.33	-60.08	-13.00	-47.08
900.00	H	-	-	-77.27	-0.69	29.04	-68.37	-13.00	-55.37

Table 7-38. Radiated Spurious Data (LTE Band 25/2 – Ant2)



Plot 7-184. Radiated Spurious Plot (LTE Band 25/2 - Ant2)

FCC ID: A3LSMF966B	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	400	349	-69.42	7.60	45.18	-50.08	-13.00	-37.08
5580.00	H	-	-	-71.29	11.46	47.17	-48.09	-13.00	-35.09
7440.00	H	-	-	-72.58	15.34	49.76	-45.50	-13.00	-32.50
9300.00	H	-	-	-73.45	17.83	51.38	-43.88	-13.00	-30.88

Table 7-39. 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	-	-	-70.18	7.94	44.76	-50.50	-13.00	-37.50
5647.50	H	-	-	-72.15	11.39	46.24	-49.02	-13.00	-36.02
7530.00	H	-	-	-73.39	15.50	49.11	-46.15	-13.00	-33.15

Table 7-40. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant2)

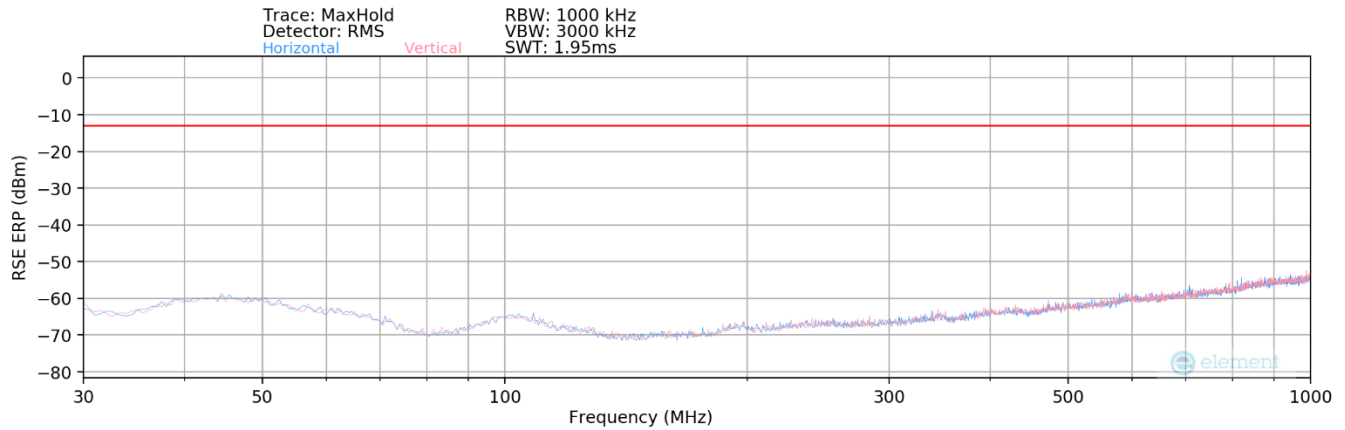
Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

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	-	-	-70.29	8.10	44.81	-50.45	-13.00	-37.45
5715.00	H	-	-	-71.86	11.31	46.45	-48.80	-13.00	-35.80
7620.00	H	-	-	-72.62	15.70	50.08	-45.18	-13.00	-32.18

Table 7-41. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant2)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n25/2 – Ant2

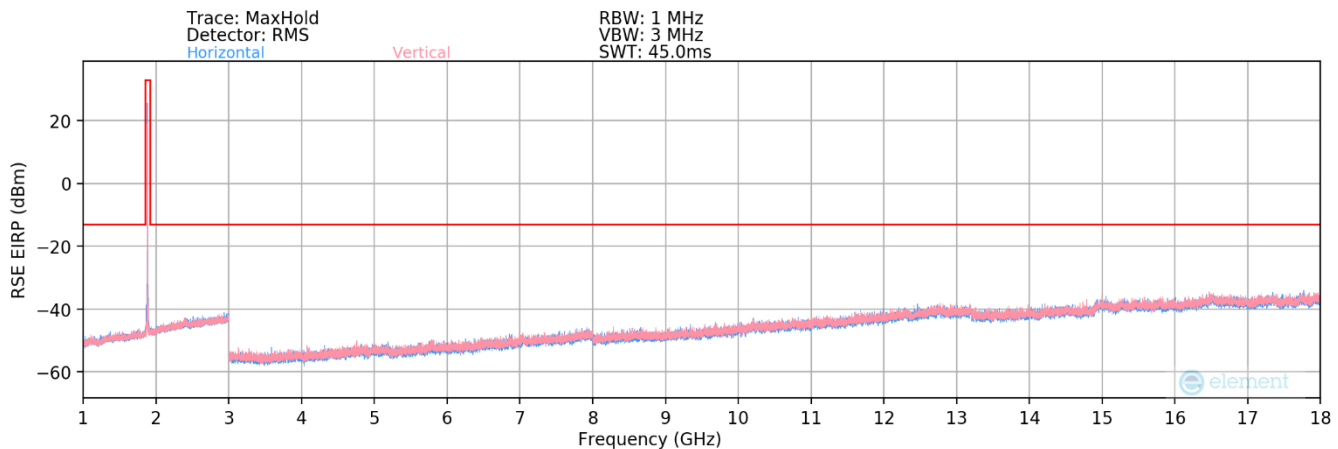


Plot 7-185. Radiated Spurious Plot (NR Band n25/2 – Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108

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]
700.00	H	-	-	-70.93	-3.56	32.51	-64.90	-13.00	-51.90

Table 7-42. Radiated Spurious Data (NR Band n25/2 – Mid Channel – Ant2)



Plot 7-186. Radiated Spurious Plot (NR Band n25/2 - Ant2)

FCC ID: A3LSMF966B	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	1870
RB / Offset:	1 / 108

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]
3740.00	H	-	-	-69.85	7.64	44.79	-50.47	-13.00	-37.47
5610.00	H	-	-	-71.74	11.33	46.59	-48.67	-13.00	-35.67
7480.00	H	-	-	-72.00	15.46	50.46	-44.80	-13.00	-31.80

Table 7-43. Radiated Spurious Data (NR Band n25/2 – Low Channel - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108

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	-	-	-68.23	7.94	46.71	-48.55	-13.00	-35.55
5647.50	H	-	-	-69.36	11.39	49.03	-46.23	-13.00	-33.23
7530.00	H	-	-	-70.43	15.50	52.07	-43.19	-13.00	-30.19

Table 7-44. Radiated Spurious Data (NR Band n25/2 – Mid Channel - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 108

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]
3790.00	H	-	-	-69.98	8.17	45.19	-50.07	-13.00	-37.07
5685.00	H	-	-	-71.08	10.99	46.91	-48.34	-13.00	-35.34
7580.00	H	-	-	-72.63	15.58	49.95	-45.31	-13.00	-32.31

Table 7-45. Radiated Spurious Data (NR Band n25/2 – 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.

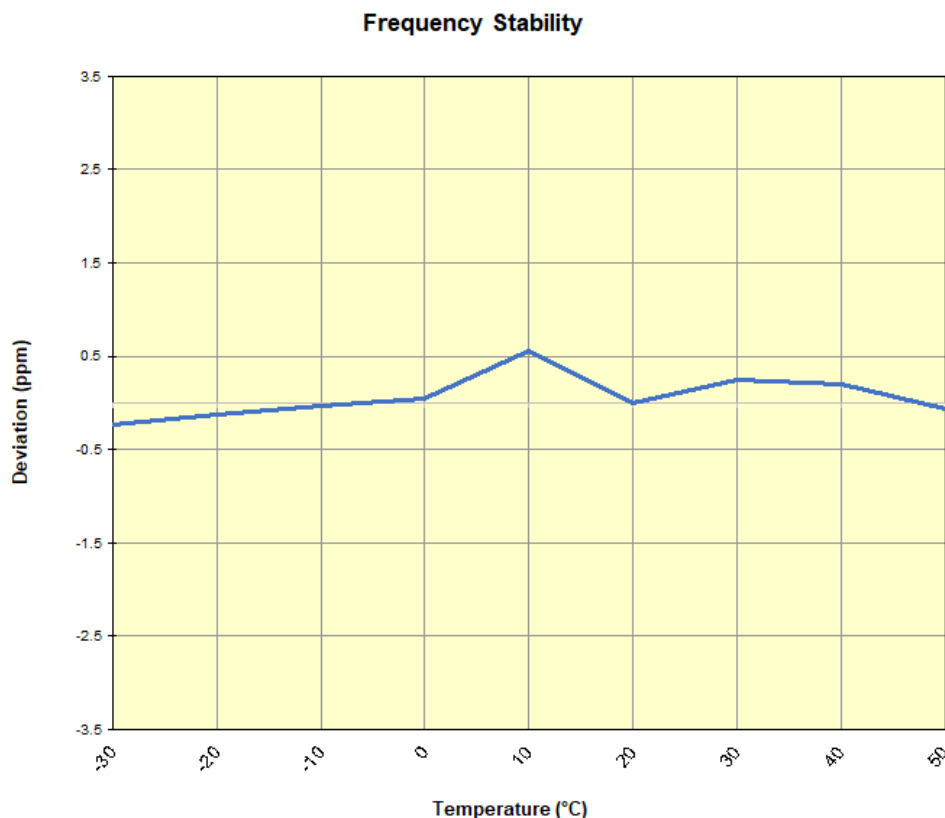
Test Notes

None

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GSM/GPRS PCS					
Operating Frequency (Hz):			1,880,000,000		
Ref. Voltage (VDC):			4.436		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	1,880,011,883	-451	-0.0000240
		- 20	1,880,012,111	-223	-0.0000119
		- 10	1,880,012,278	-56	-0.0000030
		0	1,880,012,432	98	0.0000052
		+ 10	1,880,013,378	1,044	0.0000555
		+ 20 (Ref)	1,880,012,334	0	0.0000000
		+ 30	1,880,012,789	455	0.0000242
		+ 40	1,880,012,700	366	0.0000195
Battery Endpoint	3.671	+ 50	1,880,012,225	-109	-0.0000058
		+ 20	1,880,012,400	66	0.0000035

Table 7-46. GSM/GPRS PCS Frequency Stability Data



Plot 7-187. GSM/GPRS PCS Frequency Stability Chart

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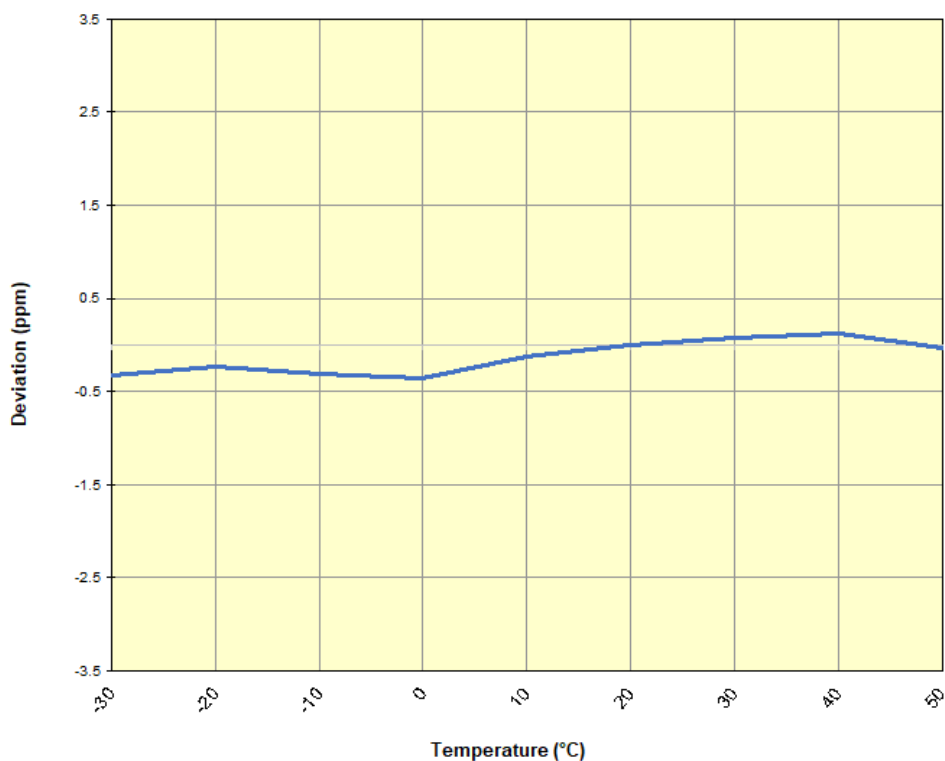
WCDMA PCS

Operating Frequency (Hz):	1,880,000,000
Ref. Voltage (VDC):	4.436

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	1,880,010,845	-602	-0.0000320
		- 20	1,880,011,002	-445	-0.0000237
		- 10	1,880,010,859	-588	-0.0000313
		0	1,880,010,784	-663	-0.0000353
		+ 10	1,880,011,203	-244	-0.0000130
		+ 20 (Ref)	1,880,011,447	0	0.0000000
		+ 30	1,880,011,603	156	0.0000083
		+ 40	1,880,011,669	222	0.0000118
Battery Endpoint	3.671	+ 50	1,880,011,389	-58	-0.0000031
		+ 20	1,880,012,236	789	0.0000420

Table 7-47. WCDMA PCS Frequency Stability Data

Frequency Stability



Plot 7-188. WCDMA PCS Frequency Stability Chart

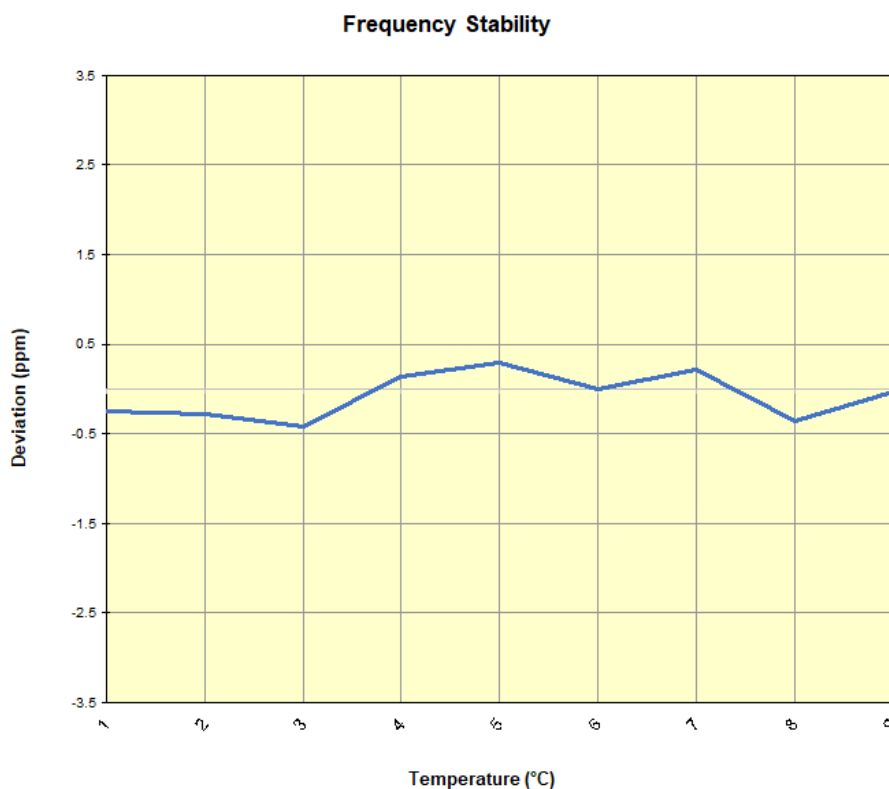
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LTE Band 25/2

Operating Frequency (Hz):	1,882,500,000
Ref. Voltage (VDC):	4.436

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	1,882,506,980	-466	-0.0000248
		- 20	1,882,506,924	-522	-0.0000277
		- 10	1,882,506,669	-777	-0.0000413
		0	1,882,507,695	249	0.0000132
		+ 10	1,882,508,001	555	0.0000295
		+ 20 (Ref)	1,882,507,446	0	0.0000000
		+ 30	1,882,507,857	411	0.0000218
		+ 40	1,882,506,777	-669	-0.0000355
Battery Endpoint	3.671	+ 50	1,882,507,374	-72	-0.0000038
		+ 20	1,882,508,005	559	0.0000297

Table 7-48. LTE Band 25/2 Frequency Stability Data



Plot 7-189. LTE Band 25/2 Frequency Stability Chart

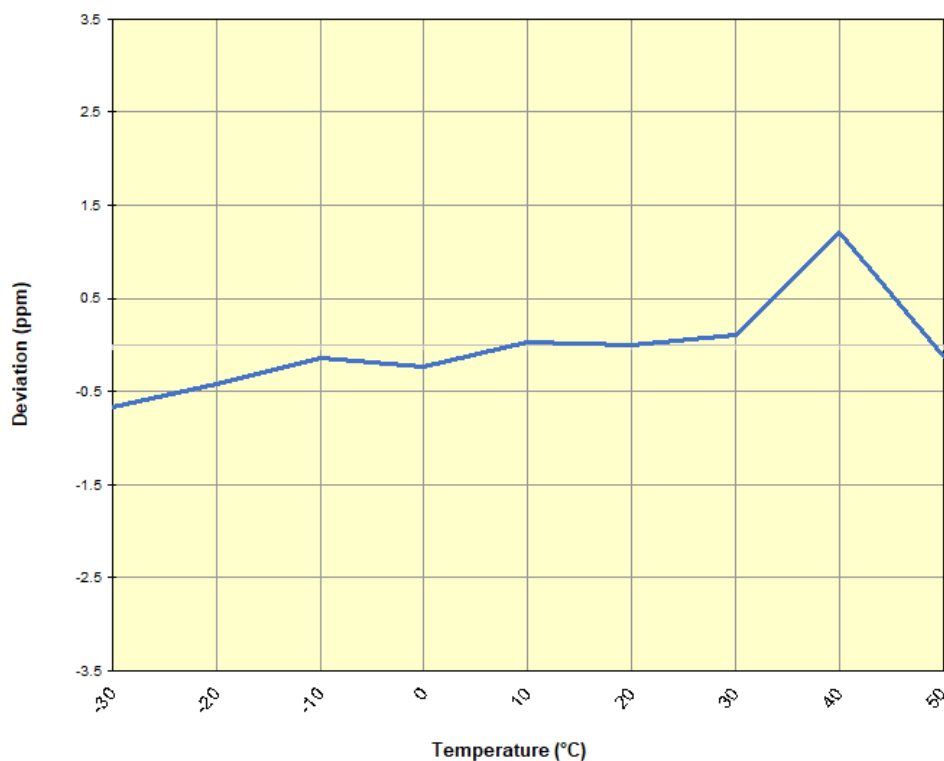
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NR Band n25/2

Operating Frequency (Hz):		1,882,500,000			
Ref. Voltage (VDC):		4.436			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.436	- 30	1,882,502,935	-1,244	-0.0000661
		- 20	1,882,503,403	-776	-0.0000412
		- 10	1,882,503,921	-258	-0.0000137
		0	1,882,503,730	-449	-0.0000239
		+ 10	1,882,504,242	63	0.0000033
		+ 20 (Ref)	1,882,504,179	0	0.0000000
		+ 30	1,882,504,393	214	0.0000114
		+ 40	1,882,506,438	2,259	0.0001200
Battery Endpoint	3.671	+ 50	1,882,503,955	-224	-0.0000119
		+ 20	1,882,504,736	557	0.0000296

Table 7-49. NR Band n25/2 Frequency Stability Data

Frequency Stability



Plot 7-190. NR Band n25/2 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: A3LSMF966B** complies with all the requirements of Part 24 of the FCC rules. The data referenced from FCC ID: A3LSMF966U (Model SM-F966U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMF966B**.

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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 C63.10-2013.

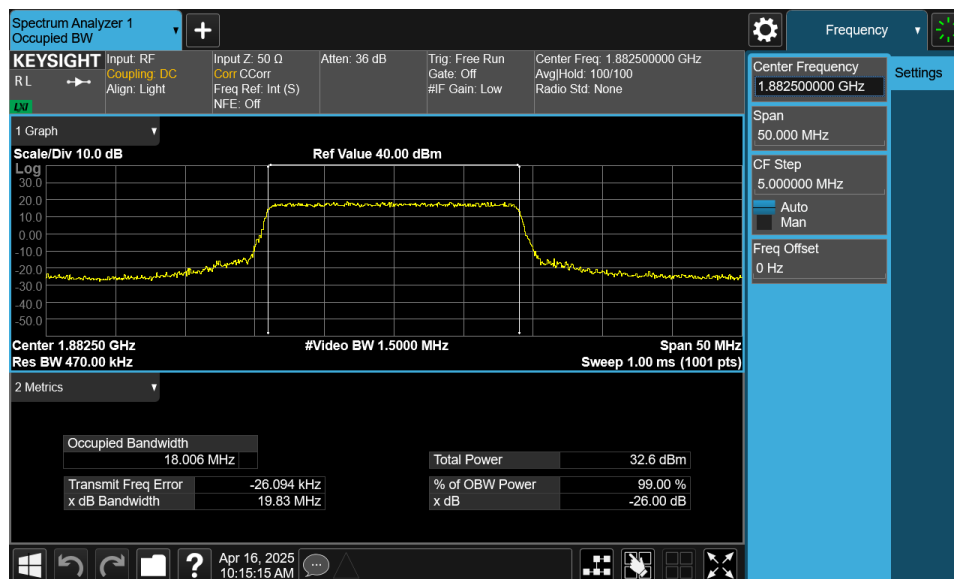
Notes

1. 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.
2. Data pertaining to the operation of NR Band n25/n2 was fully tested due to a target Output Power adjustment between the referenced and variant model. All the other data in this report was referenced for compliance.

Conducted Spot-Checks – SM-F966B/DS

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	26640	1910.0	1 / 0	25.19

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



Plot 9-1. Occupied Bandwidth (Spot-check) - LTE Band 25/2 (Spot-check)

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Radiated Spot-Checks – SM-F966B/DS

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
3 MHz	QPSK	1882.50	H	112	44	2.65	1 / 7	22.53	25.18	0.330	33.01	-7.83

Table 9-2. EIRP Measurements (Spot-check)

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	104	14	-71.24	7.60	43.36	-51.90	-13.00	-38.90

Table 9-3. Radiated Spurious Measurements (Spot-check)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-F966U	Variant Model: SM-F966B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
24	Conducted Output Power	High Ch. 26640, 10MHz, QPSK, AntG	dBm	N/A	24.98	25.18	0.20	1	PASS
	Occupied Bandwidth	Mid Ch. 26365, 20MHz, QPSK, AntB	dBm	N/A	18.05	18.00	-	N/A	PASS
	EIRP	Mid Ch. 26365, 3MHz, QPSK, AntG	dBm		33.01	24.64	0.54	3	PASS
	RSE	Low Ch. 26140, 20MHz, QPSK, AntG	dBm	-13	-50.08	-51.90	-1.82	3	PASS

Table 9-4. Summary of Spot-checks

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